



Plant Varieties Journal

Quarter Two

Volume 35

Number 2



Plant Varieties Journal

Official Journal of Plant Breeder's Rights Office,
IP Australia

Quarter Two 2022

Volume 35 Number 2

ISSN: 1030-9748

Date of Publication : 24 August 2022

[Home](#)

[Public Notices](#)

[Appendices](#)

[Subscribe](#)



Public Notices (Acceptances, Descriptions, Grants, and Variations etc.)

This part of the *Plant Varieties Journal* provides public notices on Acceptances, Variety Descriptions, Grants and Variations etc. The Public Notices of *Plant Varieties Journal* (Vol. 35 Issue 2) are listed below:

- [Home](#)
- [Acceptances](#)
- [Variety Descriptions](#)
- [Grants](#)
- [Overcharge of Examination Fees for CTC](#)
- [Change of Applicants](#)
- [Applications Withdrawn](#)
- [Applications Refused](#)
- [Transfer of Rights](#)
- [Change or Nomination of Agent](#)
- [Change of Denomination](#)
- [Change/Adding synonym](#)
- [Grants Surrendered](#)
- [Grants Expired](#)
- [Grants Revoked](#)
- [Corrigenda](#)

ACCEPTANCE

The following applications are under provisional protection from the date of acceptance:

Cucumis sativus

CUCUMBER, GHERKIN

'CHIKITO'

Application No: 2021/157 Accepted: 01 Apr 2022

Applicant: **Nunhems B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Salvia splendens x buchananii

SAGE

'IB 810-1'

Application No: 2022/020 Accepted: 04 Apr 2022

Applicant: **Plant Growers Australia Pty Ltd**, Wonga Park, VIC.

Salvia hybrid

SAGE

'IB 210-5'

Application No: 2022/021 Accepted: 05 Apr 2022

Applicant: **Plant Growers Australia Pty Ltd**, Wonga Park, VIC.

Lactuca sativa

LETTUCE

'ICECOLD'

Application No: 2021/272 Accepted: 11 Apr 2022

Applicant: **Syngenta Crop Protection AG.**

Agent: **Syngenta Australia Pty. Ltd.**, North Ryde, NSW.

Loropetalum chinense

CHINESE FRINGE FLOWER

'IB 502-1'

Application No: 2022/039 Accepted: 11 Apr 2022

Applicant: **Plant Growers Australia Pty Ltd**, Wonga Park, VIC.

Hordeum vulgare

BARLEY

'TITAN AX'

Application No: 2022/031 Accepted: 13 Apr 2022

Applicant: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Lactuca sativa

LETTUCE

'Rubagio'

Application No: 2022/032 Accepted: 13 Apr 2022

Applicant: **Syngenta Crop Participations AG.**

Agent: **Syngenta Australia Pty. Ltd.**, Macquarie Park, NSW.

Prunus armeniaca

APRICOT

'Nzsummer3'

Application No: 2022/046 Accepted: 14 Apr 2022

Applicant: **The New Zealand Institute for Plant and Food Research Limited.**

Agent: **AJ Park**, Sydney, NSW.

Prunus armeniaca

APRICOT

'Nzsummer2'

Application No: 2022/045 Accepted: 14 Apr 2022

Applicant: **The New Zealand Institute for Plant and Food Research Limited.**

Agent: **AJ Park**, Sydney, NSW.

Brassica rapa subsp. Chinensis

PAK CHOI

'Maroon Spoon'

Application No: 2022/042 Accepted: 19 Apr 2022

Applicant: **Vilmorin-Mikado USA, Inc..**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Cucumis sativus

CUCUMBER, GHERKIN

'SEDAL'

Application No: 2022/043 Accepted: 19 Apr 2022

Applicant: **Nunhems B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Grevillea hybrid

GREVILLEA

'GR13070'

Application No: 2021/205 Accepted: 20 Apr 2022

Applicant: **Ian Shimmen**, Mt Evelyn, VIC.

Hardenbergia violacea

FALSE SARSPARILLA

'HA17003'

Application No: 2021/206 Accepted: 20 Apr 2022

Applicant: **Ian Shimmen**, Mt Evelyn, VIC.

Vitis vinifera

GRAPE VINE

'Fiammetta'

Application No: 2022/002 Accepted: 22 Apr 2022

Applicant: **Grape and Grape srl.**

Agent: **Agriproject Group Australia Pty Ltd**, Euston, NSW.

Phaseolus vulgaris

FRENCH BEAN, SNAP BEAN

'WILLS'

Application No: 2022/052 Accepted: 22 Apr 2022

Applicant: **H.M.Clause, Inc.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Vitis vinifera

GRAPE VINE

'SUGRA60' syn SUGRASIXTY

Application No: 2022/011 Accepted: 27 Apr 2022

Applicant: **Sun World International, LLC.**

Agent: **Corrs Chambers Westgarth Lawyers**, Melbourne, VIC.

Mangifera indica

MANGO

'OR'

Application No: 2022/004 Accepted: 28 Apr 2022

Applicant: **John William Dorrian.**

Agent: **No**, North Isis, QLD.

Mangifera indica

MANGO

'EC'

Application No: 2022/003 Accepted: 28 Apr 2022

Applicant: **John William Dorrian.**

Agent: **No**, North Isis, QLD.

Malus domestica

APPLE

'SPA766'

Application No: 2022/018 Accepted: 29 Apr 2022

Applicant: **Her Majesty The Queen In Right of Canada as Respresented by the Minister of Agriculture and Agri-Food.**

Agent: **Australian Nurserymen's Fruit Improvement Company (ANFIC) Ltd**, Kallangur, QLD.

Solanum tuberosum

POTATO

'TWISTER'

Application No: 2022/048 Accepted: 02 May 2022

Applicant: **Cooperatie Agrico U.A..**

Agent: **Agrico Australia**, Ridgley, TAS.

Brassica napus

CANOLA

'Renegade TT'

Application No: 2022/073 Accepted: 02 May 2022

Applicant: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Brassica napus

CANOLA

'Outlaw'

Application No: 2022/075 Accepted: 02 May 2022

Applicant: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Brassica napus

CANOLA

'Bandit TT'

Application No: 2022/074 Accepted: 02 May 2022

Applicant: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Mandevilla hybrid

MANDEVILLA

'MAND02'

Application No: 2022/050 Accepted: 04 May 2022

Applicant: **Ozbreed Green Life Pty Limited**, Richmond, NSW.

Lactuca sativa

LETTUCE

'Immensal'

Application No: 2022/053 Accepted: 04 May 2022

Applicant: **Syngenta Crop Protection AG**.

Agent: **Syngenta Australia Pty. Ltd.**, Macquarie Park, NSW.

Mandevilla hybrid

MANDEVILLA

'MAND01'

Application No: 2022/051 Accepted: 04 May 2022

Applicant: **Ozbreed Green Life Pty Limited**, Richmond, NSW.

Spinacia oleracea

SPINACH

'205012629'

Application No: 2022/009 Accepted: 05 May 2022

Applicant: **NUNHEMS B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Gazania x hybrida

GAZANIA

'Newsun2101'

Application No: 2021/252 Accepted: 05 May 2022

Applicant: **NuFlora International Pty Ltd**, Macquarie Fields, NSW.

Brassica oleracea

BROCCOLI

'MCLAREN' syn SGD15-0091CRR

Application No: 2022/013 Accepted: 13 May 2022

Applicant: **Syngenta Crop Participations AG**.

Agent: **Syngenta Australia Pty. Ltd.**, Macquarie Park, NSW.

Prunus persica

PEACH

'SUPECHNINETEEN' syn SUPECH19

Application No: 2022/062 Accepted: 19 May 2022

Applicant: **Sun World International, LLC.**

Agent: **Corrs Chambers Westgarth**, Melbourne, VIC.

Brassica rapa

'Toto'

Application No: 2022/061 Accepted: 23 May 2022

Applicant: **Forage Innovations Limited.**

Agent: **The New Zealand Institute for Plant and Food Research Limited**, Lincoln, NZ.

Lactuca sativa

LETTUCE

'CANAGIO'

Application No: 2022/069 Accepted: 23 May 2022

Applicant: **Syngenta Crop Protection AG.**

Agent: **Syngenta Australia Pty. Ltd.**, North Ryde, NSW.

Lactuca sativa

LETTUCE

'RAWLEY'

Application No: 2022/049 Accepted: 23 May 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V..**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Prunus persica

PEACH

'SUPECHTWENTY' syn SUPECH20

Application No: 2022/063 Accepted: 26 May 2022

Applicant: **Sun World International, LLC.**

Agent: **Corrs Chambers Westgarth**, Melbourne, VIC.

Prunus armeniaca

APRICOT

'Nzsummer820'

Application No: 2022/023 Accepted: 31 May 2022

Applicant: **The New Zealand Institute for Plant and Food Research Limited.**

Agent: **AJ Park**, Sydney, NSW.

Prunus armeniaca

APRICOT

'Nzsummer92'

Application No: 2022/024 Accepted: 31 May 2022

Applicant: **The New Zealand Institute for Plant and Food Research Limited.**

Agent: **AJ Park**, Sydney, NSW.

Solanum tuberosum

POTATO

'SH C 1010'

Application No: 2022/095 Accepted: 31 May 2022

Applicant: **STET Holland BV.**

Agent: **Dowling AgriTech**, Mt Gambier East, SA.

Brassica oleracea

BROCCOLI

'Gongga'

Application No: 2022/067 Accepted: 01 Jun 2022

Applicant: **Syngenta Crop Protection AG.**

Agent: **Syngenta Australia Pty. Ltd.**, Macquarie Park, NSW.

Lactuca sativa

LETTUCE

'ZAC'

Application No: 2020/302 Accepted: 02 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V..**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Lolium perenne

PERENNIAL RYEGRASS

'4front'

Application No: 2022/026 Accepted: 02 Jun 2022

Applicant: **Barenbrug New Zealand Ltd.**

Agent: **Barenbrug Australia Pty Ltd**, Howlong, NSW.

Triticum aestivum

'Willaura'

Application No: 2022/078 Accepted: 02 Jun 2022

Applicant: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Lactuca sativa

LETTUCE

'VINDICATE'

Application No: 2020/301 Accepted: 02 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Rijk Zwaan Australia Pty. Ltd.**, Musk, VIC.

Prunus armeniaca

APRICOT

'Nzsummer4'

Application No: 2022/047 Accepted: 02 Jun 2022

Applicant: **The New Zealand Institute for Plant and Food Research Limited.**

Agent: **AJ Park**, Sydney, NSW.

Lactuca sativa

LETTUCE

'JALONAS'

Application No: 2020/303 Accepted: 03 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Lactuca sativa

LETTUCE

'VINCAS'

Application No: 2020/304 Accepted: 03 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Citrus sinensis

SWEET ORANGE, NAVEL ORANGE

'G4'

Application No: 2022/005 Accepted: 03 Jun 2022

Applicant: **The Trustee for the One Branch Trust.**

Agent: **Variety Access Pty Ltd**, Torbanlea, QLD.

Lactuca sativa

LETTUCE

'OUTBEX'

Application No: 2020/300 Accepted: 03 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Eruca sativa

'SPARKLE'

Application No: 2021/054 Accepted: 03 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Rijk Zwaan Australia Pty. Ltd.**, Daylesford, VIC.

Juglans regia

PERSIAN WALNUT

'Durham'

Application No: 2022/014 Accepted: 07 Jun 2022

Applicant: **The Regents of the University of California.**

Agent: **Nu Leaf I.P. Pty Ltd**, Gol Gol, NSW.

Pistacia atlantica x integerrima

'D110' syn UCB1-D110

Application No: 2022/010 Accepted: 08 Jun 2022

Applicant: **John Scott Duarte; Jeffrey Thomas Duarte.**

Agent: **Pizzey's**, Brisbane, QLD.

Pistacia atlantica x integerrima

'D11' syn UCB1-D11

Application No: 2022/027 Accepted: 08 Jun 2022

Applicant: **John Scott Duarte; Jeffrey Thomas Duarte.**

Agent: **Pizzeys**, Brisbane, QLD.

Adenanthos hybrid

BASKET FLOWER

'Flat n Fuzzy'

Application No: 2021/045 Accepted: 08 Jun 2022

Applicant: **Narkabundah Nursery**, Sandy Point, VIC.

Lactuca sativa

LETTUCE

'CORVINAS'

Application No: 2021/274 Accepted: 08 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Lactuca sativa

LETTUCE

'YVES'

Application No: 2021/273 Accepted: 08 Jun 2022

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Agent: **Spruson & Ferguson**, Sydney, NSW.

Correa pulchella

DOGWOOD

'Vanilla Essence'

Application No: 2021/046 Accepted: 08 Jun 2022

Applicant: **Narkabundah Nursery**, Sandy Point, VIC.

Magnolia grandiflora

SOUTHERN MAGNOLIA

'MSGCN' syn Super Gem

Application No: 2022/092 Accepted: 08 Jun 2022

Applicant: **Coolwyn Nurseries Pty Ltd**, Monbulk, VIC.

Correa pulchella

SALMON CORREA

'IB705-13'

Application No: 2022/081 Accepted: 08 Jun 2022

Applicant: **Plant Growers Australia Pty Ltd**.

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Cupressus macrocarpa

MONTEREY CYPRESS

'Havfrego'

Application No: 2022/093 Accepted: 09 Jun 2022

Applicant: **Marcus Verschuren**.

Agent: **Australian Horticultural Services Pty Ltd**, Wonga Park, VIC.

Prunus persica var. *nucipersica*

NECTARINE

'Atomic Red'

Application No: 2022/072 Accepted: 09 Jun 2022

Applicant: **Zaiger's Inc. Genetics.**

Agent: **Graham's Factree Pty Ltd**, Gembrook, VIC.

Prunus persica

PEACH

'SUPECHTWENTYONE' syn SUPECH21

Application No: 2022/064 Accepted: 10 Jun 2022

Applicant: **Sun World International, LLC.**

Agent: **Corrs Chambers Westgarth**, Melbourne, VIC.

Rubus rosifolius

'Peter's Thornless'

Application No: 2022/079 Accepted: 14 Jun 2022

Applicant: **Peter Laurie Hardwick**, Bangalow, NSW.

Lactuca sativa

LETTUCE

'ICE PARTY' syn IceParty

Application No: 2022/094 Accepted: 15 Jun 2022

Applicant: **Syngenta Crop Protection AG.**

Agent: **Syngenta Australia Pty. Ltd.**, Macquarie Park, NSW.

Prunus avium

SWEET CHERRY

'Balrine'

Application No: 2022/058 Accepted: 17 Jun 2022

Applicant: **CTIFL - Centre technique interprofessionnel des fruit et legumes.**

Agent: **Graham's Factree**, Gembrook, VIC.

Prunus avium

SWEET CHERRY

'Babelle'

Application No: 2022/057 Accepted: 17 Jun 2022

Applicant: **CTIFL - Centre technique interprofessionnel des fruit et legumes.**

Agent: **Graham's Factree**, Gembrook, VIC.

Prunus avium

SWEET CHERRY

'Royal Emily'

Application No: 2022/104 Accepted: 21 Jun 2022

Applicant: **Zaiger's Inc. Genetics.**

Agent: **Graham's Factree Pty Ltd**, Gembrook, VIC.

Prunus avium

SWEET CHERRY

'Royal Alana'

Application No: 2022/106 Accepted: 21 Jun 2022

Applicant: **Zaigers Inc Genetics.**

Agent: **Graham's Factree Pty Ltd**, Gembrook, VIC.

Prunus avium

SWEET CHERRY

'Royal Lennox'

Application No: 2022/105 Accepted: 27 Jun 2022

Applicant: **Zaigers Inc Genetics.**

Agent: **Graham's Factree Pty Ltd**, Gembrook, VIC.

Citrus reticulata x sinensis

TANGOR

'M610T'

Application No: 2022/089 Accepted: 28 Jun 2022

Applicant: **Craig Robert Pressler as Trustee for C & B Pressler Family Trust**, Emerald, QLD.

Pittosporum tenuifolium

PITTOSPORUM, KOHUHU, TAWHIWHI

'On Par'

Application No: 2022/025 Accepted: 28 Jun 2022

Applicant: **Redlems Trust.**

Agent: **Touch of Class Plants Pty Ltd**, Tynong, VIC.

Polemonium hybrid

'Golden Feathers'

Application No: 2022/090 Accepted: 29 Jun 2022

Applicant: **Plant Growers Australia Pty. Ltd..**

Agent: **Plants Management Australia Pty. Ltd.**, Dodges Ferry, TAS.

Triticum durum

DURUM WHEAT

'Patron'

Application No: 2022/065 Accepted: 29 Jun 2022

Applicant: **Australian Grain Technologies Pty Ltd**, Roseworthy, SA.

Coprosma repens

MIRROR PLANT

'IB 804-1' syn Chameleon

Application No: 2022/087 Accepted: 29 Jun 2022

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Anisodonteia capensis

ANISODONTEA

'IB609-3' syn Dayo

Application No: 2022/082 Accepted: 29 Jun 2022

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Lavandula pedunculata

SPANISH LAVENDER

'IB 610-7' syn Blushberry Ruffles

Application No: 2022/083 Accepted: 29 Jun 2022

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Anisodonteia capensis

ANISODONTEA

'IB 710-1' syn Mirembe

Application No: 2022/084 Accepted: 29 Jun 2022

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Lavandula pedunculata

SPANISH LAVENDER

'IB61015' syn The Silver Princess

Application No: 2022/085 Accepted: 29 Jun 2022

Applicant: **Plant Growers Australia Pty Ltd.**

Agent: **Plants Management Australia Pty Ltd**, Dodges Ferry, TAS.

Variety Descriptions

Common (Genus Species)	Variety	Title Holder
Canola (Brassica napus)	DG Torrens TT	Nutrien Ag Solutions Ltd
Broccoli (Brassica oleracea)	Gongga	Syngenta Crop Protection AG
Mandarin (Citrus reticulata)	Tambit No.1	The Korean Rural Development Administration
Mandarin (Citrus reticulata)	Minihyang	The Korean Rural Development Administration
Sweet Orange (Citrus sinensis)	Kirkwood Red	Kirkwood Red Trust
Salmon Correa (Correa pulchella)	Ring a Ding Ding	Plant Growers Australia
Melon (Cucumis melo)	ZENTAURO	Nunhems B.V., Laboratoire ASL S.N.C.
Cucumber (Cucumis sativus)	INSULA	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
Cucumber (Cucumis sativus)	CHIKITO	Nunhems B.V.
Cucumber (Cucumis sativus)	SEDAL	Nunhems B.V.
Hybrid Green Couch Grass (Cynodon transvaalensis x Cynodon dactylon)	DT-1	University of Georgia Research Foundation, Inc
Carrot (Daucus carota)	ALLYANCE	Nunhems B.V.
(Fragaria xananassa)	Red Rio	Total Worldfresh Limited
Strawberry (Fragaria xananassa)	Red Cleo	Total Worldfresh Limited
Soybean (Glycine max)	Gwydir	CSIRO; NSW Department of Primary Industries; Grains Research and Development Corporation
Barley (Hordeum vulgare)	CYCLOPS	Australian Grain Technologies Pty Ltd

<u>Barley (<i>Hordeum vulgare</i>)</u>	Minotaur	Australian Grain Technologies Pty Ltd
<u>Barley (<i>Hordeum vulgare</i>)</u>	Yeti	Australian Grain Technologies Pty Ltd
<u>Barley (<i>Hordeum vulgare</i>)</u>	RGT Orbiter	RAGT 2n
<u>Barley (<i>Hordeum vulgare</i>)</u>	RGT Asteroid	RAGT 2n
<u>Lettuce (<i>Lactuca sativa</i>)</u>	PATROBAS	Vilmorin-Mikado
<u>Lettuce (<i>Lactuca sativa</i>)</u>	SPRINKIN	Nunhems B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	ICE PARTY	Syngenta Crop Protection AG
<u>Lettuce (<i>Lactuca sativa</i>)</u>	Sirula	Syngenta Crop Protection AG
<u>Lettuce (<i>Lactuca sativa</i>)</u>	RAWLEY	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	Immensal	Syngenta Crop Protection AG
<u>Lettuce (<i>Lactuca sativa</i>)</u>	CORVINAS	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	Verodita	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	Gradara	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	EXPONENT	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	OUTBEX	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	Rainey	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	MULTIRED 134	Nunhems B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	Barlach	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	JALONAS	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	ZAC	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i>)</u>	VINCAS	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
<u>Lettuce (<i>Lactuca sativa</i> L.)</u>	MULTIGREEN 114	Nunhems B.V.
<u>Apple (<i>Malus domestica</i>)</u>	NAKANONOKIRAMEKI	Kazuko Yoshiie
<u>(<i>Ocimum basilicum</i>)</u>	Rutgers PassionDMR	Rutgers, The State

		University of New Jersey
Rice (<i>Oryza sativa</i>)	YRL39	The Crown in right of the State of New South Wales acting through the Department of Primary Industries; Ricegrowers Ltd. (trading as SunRice); AgriFutures Australia
Kikuyu grass (<i>Pennisetum clandestinum</i>)	CT5000	Roy David Eykamp
Kikuyu grass (<i>Pennisetum clandestinum</i>)	Fulkerson	Eykamp Seeds Pty Ltd; Eycorp Pty Ltd
Field Pea (<i>Pisum sativum</i>)	PBA Taylor	Agriculture Victoria Services Pty Ltd; Grains Research and Development Corporation
Apricot (<i>Prunus armeniaca</i>)	Nzsummer4	The New Zealand Institute for Plant and Food Research Limited
Apricot (<i>Prunus armeniaca</i>)	Nzsummer3	The New Zealand Institute for Plant and Food Research Limited
Apricot (<i>Prunus armeniaca</i>)	Nzsummer2	The New Zealand Institute for Plant and Food Research Limited
Peach (<i>Prunus persica</i>)	IceZee	Zaiger's Inc. Genetics
Peach (<i>Prunus persica</i>)	Pearl Princess XIII	Lowell Glen Bradford
Nectarine (<i>Prunus persica var nucipersica</i>)	Red Bright II	Lowell Glen Bradford
Raspberry (<i>Rubus idaeus</i>)	NN08002	Pacific Berries LLC
Sesame (<i>Sesamum indicum</i>)	CJAUS-1	CJ Cheiljedang
Tomato (<i>Solanum lycopersicum</i>)	BROVIAN	Nunhems B.V.
Tomato (<i>Solanum lycopersicum</i> L.)	ADVENTURE	Rijk Zwaan Zaadteelt en Zaadhandel B.V.
Potato (<i>Solanum tuberosum</i>)	GRAVITY	IPM Potato Group Ltd
Potato (<i>Solanum tuberosum</i>)	SENSATION-IPM	IPM Potato Group Ltd
Potato (<i>Solanum</i>	KING RUSSET	Aardappelweek - en Selectiebedrijf

<i>tuberosum</i>)		IJSSELMEERPOLDERS BV
Potato (<i>Solanum tuberosum</i>)	CARIBOU RUSSET	University of Maine System Board of Trustees
Potato (<i>Solanum tuberosum</i>)	Crop80	The New Zealand Institute for Plant and Food Research Limited
Potato (<i>Solanum tuberosum</i>)	EFERA	Plantera B.V.
Potato (<i>Solanum tuberosum</i>)	LILY ROSE	Plantera B.V.
Potato (<i>Solanum tuberosum</i>)	Aurea	SIPRE
Potato (<i>Solanum tuberosum</i>)	PAPAGENO	Solana GmbH & Co KG
Potato (<i>Solanum tuberosum</i>)	EDISON	Solana GmbH & Co KG
Potato (<i>Solanum tuberosum</i>)	BABY LOU	Solana GmbH & Co KG
Potato (<i>Solanum tuberosum</i>)	ETANA	Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG
Potato (<i>Solanum tuberosum</i>)	Cheyenne	Grocep S.I.C.A.
Potato (<i>Solanum tuberosum</i>)	Sorrento	James Hutton Institute
Lilly Pilly (<i>Syzygium australe</i>)	Bonfire	Reline Management Pty Ltd ATF The Cole Unit Trust
Wheat (<i>Triticum aestivum</i>)	RGT_Cesario	RAGT 2n
Blueberry (<i>Vaccinium corymbosum</i>)	F122	The New Zealand Institute for Plant and Food Research Limited
Mung Bean (<i>Vigna radiata</i>)	vi010	Granum (Overseas) Pty Ltd
Mung Bean (<i>Vigna radiata</i>)	AGV1015	Agriventis Technologies Pty Ltd
Mung Bean (<i>Vigna radiata</i>)	AGV1011	AgriVentis Technologies Pty Ltd
Mung Bean (<i>Vigna radiata</i> var. <i>radiata</i>)	Opal-AU	Grains Research and Development Corporation, The State of Queensland through the Department of Agriculture & Fisheries
Grape vine (<i>Vitis vinifera</i>)	Sugrafortyeight	Sun World International LLC

Grape vine (<i>Vitis vinifera</i>)	ARRATHIRTYTWO	ARD LLC (Agricultural Research & Development Limited Liability Company)
Grape vine (<i>Vitis vinifera</i>)	Itumfive	Investigación y Tecnología de Uva de Mesa S.L.

Plant Varieties Journal - Search Result Details

(*Fragaria xananassa*)**Variety:** 'Red Rio'**Synonym:** N/A**Application no:** 2021/147**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 08-Jul-2021**Accepted:** 19-Oct-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Total Worldfresh Limited**Agent:** Mountain Blue**Telephone:** 0428610871**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

(*Ocimum basilicum*)**Variety:** 'Rutgers PassionDMR'**Synonym:** N/A**Application no:** 2018/120**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 02-May-2018**Accepted:** 25-Jul-2018**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title Holder:** Rutgers, The State University of New Jersey**Agent:** Phillips Ormonde Fitzpatrick**Telephone:** 0396222287**Fax:** 0396141867

[View the detailed description of this variety.](#)



'Rutgers PassionDMR'

Plant Varieties Journal - Search Result Details

Apple (*Malus domestica*)**Variety:** 'NAKANONOKIRAMEKI'**Synonym:** Kirameki**Application no:** 2021/197**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Aug-2021**Accepted:** 26-Oct-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Kazuko Yoshiie**Agent:** AJ Park**Telephone:** 44740898**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Apricot (*Prunus armeniaca*)**Variety:** 'Nzsummer4'**Synonym:** N/A**Application no:** 2022/047**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Mar-2022**Accepted:** 02-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: The New Zealand Institute for Plant and Food Research**Holder:** Limited**Agent:** AJ Park**Telephone:** 044740898**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Apricot (*Prunus armeniaca*)**Variety:** 'Nzsummer3'**Synonym:** N/A**Application no:** 2022/046**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Mar-2022**Accepted:** 14-Apr-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: The New Zealand Institute for Plant and Food Research**Holder:** Limited**Agent:** AJ Park**Telephone:** 044740898**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Apricot (*Prunus armeniaca*)**Variety:** 'Nzsummer2'**Synonym:** N/A**Application no:** 2022/045**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Mar-2022**Accepted:** 14-Apr-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: The New Zealand Institute for Plant and Food Research**Holder:** Limited**Agent:** AJ Park**Telephone:** 044740898**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Barley (*Hordeum vulgare*)**Variety:** 'CYCLOPS'**Synonym:** N/A**Application no:** 2021/140**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 05-Jul-2021**Accepted:** 04-Aug-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Date of effect: 22-Aug-2022

Plant Varieties Journal - Search Result Details

Barley (*Hordeum vulgare*)**Variety:** 'Minotaur'**Synonym:** N/A**Application no:** 2021/141**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 05-Jul-2021**Accepted:** 06-Aug-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Barley (*Hordeum vulgare*)**Variety:** 'Yeti'**Synonym:** N/A**Application no:** 2021/142**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 05-Jul-2021**Accepted:** 23-Aug-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Australian Grain Technologies Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Barley (*Hordeum vulgare*)**Variety:** 'RGT Orbiter'**Synonym:** RGT-Orbiter**Application no:** 2021/241**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-Oct-2021**Accepted:** 22-Nov-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: RAGT 2n**Agent:** Seedforce Australia Pty Ltd**Telephone:** 0358323800**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Barley (*Hordeum vulgare*)**Variety:** 'RGT Asteroid'**Synonym:** RGT-Asteroid**Application no:** 2021/242**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-Oct-2021**Accepted:** 25-Nov-2021**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title Holder:** RAGT 2n**Agent:** Seedforce Australia Pty Ltd**Telephone:** 0358323800**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Blueberry (*Vaccinium corymbosum*)**Variety:** 'F122'**Synonym:** N/A**Application no:** 2021/069**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 23-Mar-2021**Accepted:** 02-Jun-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: The New Zealand Institute for Plant and Food Research**Holder:** Limited**Agent:** N/A**Telephone:** 033259511**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Broccoli (*Brassica oleracea*)**Variety:** 'Gongga'**Synonym:** N/A**Application no:** 2022/067**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 13-Apr-2022**Accepted:** 01-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Syngenta Crop Protection AG**Agent:** Syngenta Australia Pty. Ltd.**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



'Gongga'

Plant Varieties Journal - Search Result Details

Canola (*Brassica napus*)**Variety:** 'DG Torrens TT'**Synonym:** DG1924TT**Application no:** 2020/276**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 12-Nov-2020**Accepted:** 17-Mar-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nutrien Ag Solutions Ltd**Agent:** Kate Light**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Date of effect: 22-Aug-2022

Plant Varieties Journal - Search Result Details

Carrot (*Daucus carota*)**Variety:** 'ALLYANCE'**Synonym:** N/A**Application no:** 2019/046**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 28-Mar-2019**Accepted:** 17-May-2019**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



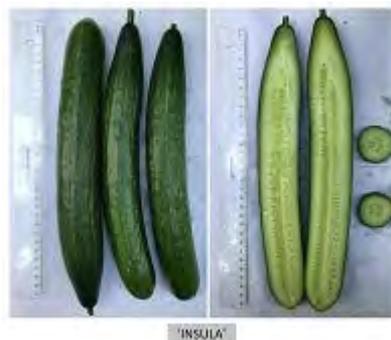
Plant Varieties Journal - Search Result Details

Cucumber (*Cucumis sativus*)**Variety:** 'INSULA'**Synonym:** N/A**Application no:** 2021/121**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 02-Jun-2021**Accepted:** 30-Jun-2021**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Cucumber (*Cucumis sativus*)**Variety:** 'CHIKITO'**Synonym:** N/A**Application no:** 2021/157**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 22-Jul-2021**Accepted:** 01-Apr-2022**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Cucumber (*Cucumis sativus*)**Variety:** 'SEDAL'**Synonym:** N/A**Application no:** 2022/043**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 15-Mar-2022**Accepted:** 19-Apr-2022**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



SEDAL

Plant Varieties Journal - Search Result Details

Field Pea (*Pisum sativum*)**Variety:** 'PBA Taylor'**Synonym:** N/A**Application no:** 2021/063**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 22-Mar-2021**Accepted:** 11-May-2021**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title Holder:** Agriculture Victoria Services Pty Ltd; Grains Research and Development Corporation**Agent:** N/A**Telephone:** 0390327673**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Grape vine (*Vitis vinifera*)**Variety:** 'Sugrafortyeight'**Synonym:** SUGRA48**Application no:** 2017/115**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 24-Apr-2017**Accepted:** 09-Jun-2017**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Sun World International LLC**Agent:** Corrs Chambers Westgarth Lawyers**Telephone:** 0396723148**Fax:** 0396723010

[View the detailed description of this variety.](#)



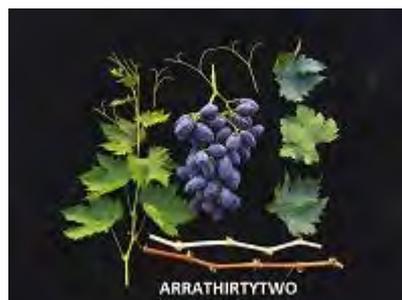
Plant Varieties Journal - Search Result Details

Grape vine (*Vitis vinifera*)**Variety:** 'ARRATHIRTYTWO'**Synonym:** N/A**Application no:** 2017/188**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 15-Jun-2017**Accepted:** 17-Jul-2017**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: ARD LLC (Agricultural Research & Development Limited**Holder:** Liability Company)**Agent:** Gilad Sadan**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Grape vine (*Vitis vinifera*)**Variety:** 'Itumfive'**Synonym:** N/A**Application no:** 2017/056**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 14-Mar-2017**Accepted:** 31-Jul-2017**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Investigación y Tecnología de Uva de Mesa S.L.**Agent:** Table Grape Variety Development Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



'Itumfive'

Plant Varieties Journal - Search Result Details

Hybrid Green Couch Grass (*Cynodon transvaalensis* x *Cynodon dactylon*)**Variety:** 'DT-1'**Synonym:** N/A**Application no:** 2016/385**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 23-Dec-2016**Accepted:** 10-May-2017**Granted:** N/A**Description published in Plant Varieties Journal:**

Volume 35, Issue 2

Title Holder: University of Georgia Research Foundation, Inc**Agent:** Lawn Solutions Australia Group Pty Ltd**Telephone:** 1300883711**Fax:** N/A[View the detailed description of this variety.](#)

Plant Varieties Journal - Search Result Details

Kikuyu grass (*Pennisetum clandestinum*)

Variety: 'CT5000'
Synonym: Ceretec Five Thousand

Application no: 2008/183

Current status: ACCEPTED

Certificate no: N/A

Received: 11-Jun-2008

Accepted: 05-Aug-2008

Granted: N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Roy David Eykamp

Agent: N/A

Telephone: 0267461811

Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Kikuyu grass (*Pennisetum clandestinum*)**Variety:** 'Fulkerson'**Synonym:** N/A**Application no:** 2018/361**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 06-Dec-2018**Accepted:** 15-Jan-2019**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title Holder:** Eykamp Seeds Pty Ltd; Eycorp Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



'Fulkerson' 'Whittet' 'Acacia Plateau'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'PATROBAS'**Synonym:** N/A**Application no:** 2020/120**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 19-Jun-2020**Accepted:** 05-Aug-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Vilmorin-Mikado**Agent:** Spruson & Ferguson**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'SPRINKIN'**Synonym:** N/A**Application no:** 2021/169**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 06-Aug-2021**Accepted:** 17-Sep-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'ICE PARTY'**Synonym:** IceParty**Application no:** 2022/094**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 12-May-2022**Accepted:** 15-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Syngenta Crop Protection AG**Agent:** Syngenta Australia Pty. Ltd.**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'Sirula'**Synonym:** N/A**Application no:** 2022/115**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-Jun-2022**Accepted:** 20-Jul-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Syngenta Crop Protection AG**Agent:** Syngenta Australia Pty. Ltd.**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



'Sirula'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'RAWLEY'**Synonym:** N/A**Application no:** 2022/049**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 16-Mar-2022**Accepted:** 23-May-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'Immensal'**Synonym:** N/A**Application no:** 2022/053**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Mar-2022**Accepted:** 04-May-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Syngenta Crop Protection AG**Agent:** Syngenta Australia Pty. Ltd.**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'CORVINAS'**Synonym:** N/A**Application no:** 2021/274**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 23-Nov-2021**Accepted:** 08-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



'CORVINAS'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'Verodita'**Synonym:** N/A**Application no:** 2015/093**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 01-May-2015**Accepted:** 13-May-2015**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)

'Verodita'



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)

Variety: 'Gradara'
Synonym: 41-112RZ

Application no: 2014/004

Current status: ACCEPTED

Certificate no: N/A

Received: 13-Jan-2014

Accepted: 03-Feb-2014

Granted: N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.

Agent: Spruson & Ferguson

Telephone: 0293930100

Fax: N/A

[View the detailed description of this variety.](#)



'Gradara'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'EXPONENT'**Synonym:** N/A**Application no:** 2014/115**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 18-Jun-2014**Accepted:** 01-Aug-2014**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'OUTBEX'**Synonym:** N/A**Application no:** 2020/300**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 07-Dec-2020**Accepted:** 03-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



'OUTBEX'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'Rainey'**Synonym:** N/A**Application no:** 2020/289**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 23-Nov-2020**Accepted:** 20-Jan-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



'RAINEY'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'MULTIRED 134'**Synonym:** N/A**Application no:** 2020/265**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 02-Nov-2020**Accepted:** 18-Jan-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'Barlach'**Synonym:** N/A**Application no:** 2016/078**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 21-Mar-2016**Accepted:** 01-Jul-2016**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'JALONAS'**Synonym:** N/A**Application no:** 2020/303**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 10-Dec-2020**Accepted:** 03-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



'Jalona'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'ZAC'**Synonym:** N/A**Application no:** 2020/302**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 09-Dec-2020**Accepted:** 02-Jun-2022**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title Holder:** Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Date of effect: 22-Aug-2022

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa*)**Variety:** 'VINCAS'**Synonym:** N/A**Application no:** 2020/304**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 10-Dec-2020**Accepted:** 03-Jun-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



'VINCAS'

Plant Varieties Journal - Search Result Details

Lettuce (*Lactuca sativa* L.)**Variety:** 'MULTIGREEN 114'**Synonym:** N/A**Application no:** 2019/187**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Aug-2019**Accepted:** 23-Sep-2019**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Lilly Pilly (*Syzygium australe*)

Variety: 'Bonfire'
Synonym: Screen Master

Application no: 2020/106

Current status: ACCEPTED

Certificate no: N/A

Received: 31-May-2020

Accepted: 22-Jul-2020

Granted: N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Reline Management Pty Ltd ATF The Cole Unit Trust

Agent: N/A

Telephone: 0894179834

Fax: N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Mandarin (*Citrus reticulata*)**Variety:** 'Tambit No.1'**Synonym:** N/A**Application no:** 2021/074**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 24-Mar-2021**Accepted:** 18-Nov-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: The Korean Rural Development Administration**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Mandarin (*Citrus reticulata*)**Variety:** 'Minihyang'**Synonym:** N/A**Application no:** 2021/077**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 24-Mar-2021**Accepted:** 20-Jul-2021**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: The Korean Rural Development Administration**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Melon (*Cucumis melo*)**Variety:** 'ZENTAURO'**Synonym:** N/A**Application no:** 2018/209**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 13-Jul-2018**Accepted:** 08-Nov-2018**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nunhems B.V., Laboratoire ASL S.N.C.**Agent:** Spruson & Ferguson**Telephone:** 0293920100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Mung Bean (*Vigna radiata*)**Variety:** 'vi010'**Synonym:** N/A**Application no:** 2021/249**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 14-Oct-2021**Accepted:** 10-Dec-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Granum (Overseas) Pty Ltd**Agent:** N/A**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



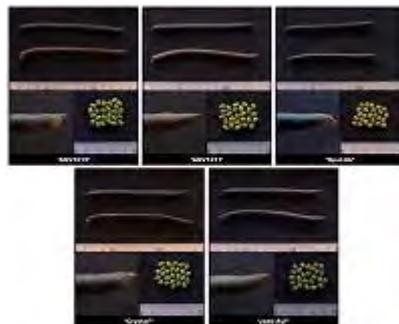
Plant Varieties Journal - Search Result Details

Mung Bean (*Vigna radiata*)**Variety:** 'AGV1015'**Synonym:** N/A**Application no:** 2021/094**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 22-Apr-2021**Accepted:** 10-Aug-2021**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Agriventis Technologies Pty Ltd**Agent:** N/A**Telephone:** 0289122117**Fax:** N/A

[View the detailed description of this variety.](#)



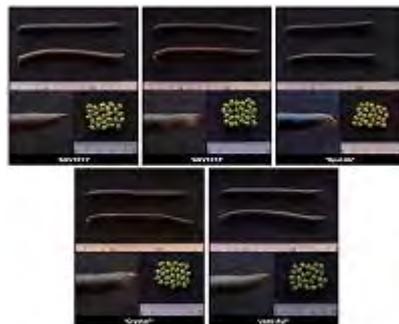
Plant Varieties Journal - Search Result Details

Mung Bean (*Vigna radiata*)**Variety:** 'AGV1011'**Synonym:** N/A**Application no:** 2018/270**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 03-Sep-2018**Accepted:** 15-Mar-2019**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: AgriVentis Technologies Pty Ltd**Agent:** Peter Maxwell and Associates**Telephone:** 0292479000**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

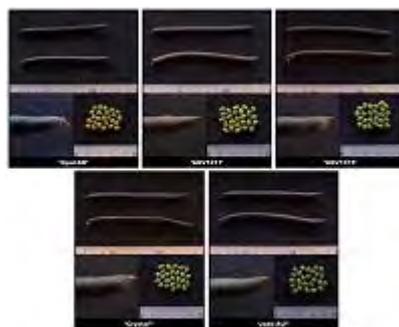
Mung Bean (*Vigna radiata* var. *radiata*)**Variety:** 'Opal-AU'**Synonym:** N/A**Application no:** 2019/156**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 12-Aug-2019**Accepted:** 03-Mar-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Grains Research and Development Corporation, The State of Queensland through the Department of Agriculture & Fisheries

Agent: N/A**Telephone:** 0261664500**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Nectarine (*Prunus persica* var *nucipersica*)**Variety:** 'Red Bright II'**Synonym:** SpringBlush**Application no:** 2017/149**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-May-2017**Accepted:** 10-Jul-2017**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Lowell Glen Bradford**Agent:** Montague Fresh**Telephone:** 0397098122**Fax:** N/A

[View the detailed description of this variety.](#)



'Red Bright II'

Plant Varieties Journal - Search Result Details

Peach (*Prunus persica*)**Variety:** 'IceZee'**Synonym:** N/A**Application no:** 2015/293**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 02-Nov-2015**Accepted:** 16-Feb-2016**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Zaiger's Inc. Genetics**Agent:** Graham's Factree Pty Ltd**Telephone:** 0399991999**Fax:** N/A

[View the detailed description of this variety.](#)



'IceZee'

Plant Varieties Journal - Search Result Details

Peach (*Prunus persica*)**Variety:** 'Pearl Princess XIII'**Synonym:** N/A**Application no:** 2017/147**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-May-2017**Accepted:** 10-Jul-2017**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Lowell Glen Bradford**Agent:** Montague Fresh**Telephone:** 0397098122**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*solanum tuberosum*)**Variety:** 'GRAVITY'**Synonym:** N/A**Application no:** 2020/152**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 28-Jul-2020**Accepted:** 17-Sep-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: IPM Potato Group Ltd**Agent:** IPM Potato Group Ltd**Telephone:** 0883915358**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'SENSATION-IPM'**Synonym:** N/A**Application no:** 2020/176**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 19-Aug-2020**Accepted:** 29-Oct-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: IPM Potato Group Ltd**Agent:** IPM Potato Group Ltd**Telephone:** 0883915358**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'KING RUSSET'**Synonym:** N/A**Application no:** 2020/085**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 08-May-2020**Accepted:** 11-Jun-2020**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title:** Aardappelweek - en Selectiebedrijf**Holder:** IJSSELMEERPOLDERS BV**Agent:** McCain Foods (Aust) Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'CARIBOU RUSSET'**Synonym:** N/A**Application no:** 2020/207**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 08-Sep-2020**Accepted:** 11-Jan-2021**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: University of Maine System Board of Trustees**Agent:** McCain Foods (Aust) Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'Crop80'**Synonym:** N/A**Application no:** 2021/052**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 10-Mar-2021**Accepted:** 27-Apr-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: The New Zealand Institute for Plant and Food Research**Holder:** Limited**Agent:** N/A**Telephone:** 033259511**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'EFERA'**Synonym:** N/A**Application no:** 2021/118**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 28-May-2021**Accepted:** 06-Jul-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Plantera B.V.**Agent:** Dowling AgriTech**Telephone:** 0887230411**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'LILY ROSE'**Synonym:** N/A**Application no:** 2021/117**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-May-2021**Accepted:** 06-Jul-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Plantera B.V.**Agent:** Dowling AgriTech**Telephone:** 0887230411**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)

Variety: 'Aurea'
Synonym: Z-04-W15

Application no: 2015/151

Current status: ACCEPTED

Certificate no: N/A

Received: 17-Jun-2015

Accepted: 24-Jun-2015

Granted: N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: SIPRE

Agent: Zerella Holdings Pty Ltd

Telephone: 0883809096

Fax: 0883809249

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'PAPAGENO'**Synonym:** N/A**Application no:** 2020/054**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Mar-2020**Accepted:** 04-May-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Solana GmbH & Co KG**Agent:** Fairbanks Selected Seed Co Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'EDISON'**Synonym:** N/A**Application no:** 2020/053**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Mar-2020**Accepted:** 04-May-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Solana GmbH & Co KG**Agent:** Fairbanks Selected Seed Co Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'BABY LOU'**Synonym:** N/A**Application no:** 2020/052**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 30-Mar-2020**Accepted:** 04-May-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Solana GmbH & Co KG**Agent:** Fairbanks Selected Seed Co Pty Ltd**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'ETANA'**Synonym:** N/A**Application no:** 2019/251**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 19-Nov-2019**Accepted:** 26-Nov-2019**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG**Agent:** Dowling Agritech**Telephone:** 0887230411**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'Cheyenne'**Synonym:** N/A**Application no:** 2016/280**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 18-Oct-2016**Accepted:** 04-Apr-2017**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Grocep S.I.C.A.**Agent:** Zerella Holdings Pty Ltd**Telephone:** 0883809096**Fax:** 0883809249

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Potato (*Solanum tuberosum*)**Variety:** 'Sorrento'**Synonym:** N/A**Application no:** 2019/209**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-Sep-2019**Accepted:** 04-Nov-2019**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: James Hutton Institute**Agent:** Mitolo Developments Pty Ltd**Telephone:** 0882829088**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Raspberry (*Rubus idaeus*)**Variety:** 'NN08002'**Synonym:** N/A**Application no:** 2020/050**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 24-Mar-2020**Accepted:** 14-Apr-2020**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Pacific Berries LLC**Agent:** AJ Park**Telephone:** 044740893**Fax:** 044723358

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Rice (*Oryza sativa*)**Variety:** 'YRL39'**Synonym:** N/A**Application no:** 2019/009**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 18-Jan-2019**Accepted:** 30-Apr-2019**Granted:** N/A

Description published in Plant Varieties Journal:
Plant Varieties Journal: Volume 35, Issue 2

Title Holder: The Crown in right of the State of New South Wales acting through the Department of Primary Industries; Ricegrowers Ltd. (trading as SunRice); AgriFutures Australia

Agent: NSW Department of Primary Industries**Telephone:** N/A**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Salmon Correa (*Correa pulchella*)**Variety:** 'Ring a Ding Ding'**Synonym:** N/A**Application no:** 2016/098**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 27-Apr-2016**Accepted:** 16-Jun-2016**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Plant Growers Australia**Agent:** Plants Management Australia Pty. Ltd.**Telephone:** 0362659050**Fax:** 0362659919

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Sesame (*Sesamum indicum*)**Variety:** 'CJAUS-1'**Synonym:** N/A**Application no:** 2021/232**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 29-Sep-2021**Accepted:** 22-Dec-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: CJ Cheiljedang**Agent:** Eurofins Agroscience Services Pty Ltd**Telephone:** 0358212021**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Soybean (*Glycine max*)**Variety:** 'Gwydir'**Synonym:** T171A-2**Application no:** 2021/248**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 14-Oct-2021**Accepted:** 21-Dec-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title: CSIRO; NSW Department of Primary Industries; Grains**Holder:** Research and Development Corporation**Agent:** CSIRO Agriculture and Food**Telephone:** 0732142278**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Strawberry (*Fragaria xananassa*)**Variety:** 'Red Cleo'**Synonym:** N/A**Application no:** 2021/146**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 08-Jul-2021**Accepted:** 23-Nov-2021**Granted:** N/A

Description published in Plant Varieties Journal: Volume 35, Issue 2

Title Holder: Total Worldfresh Limited**Agent:** Mountain Blue**Telephone:** 0428610871**Fax:** N/A

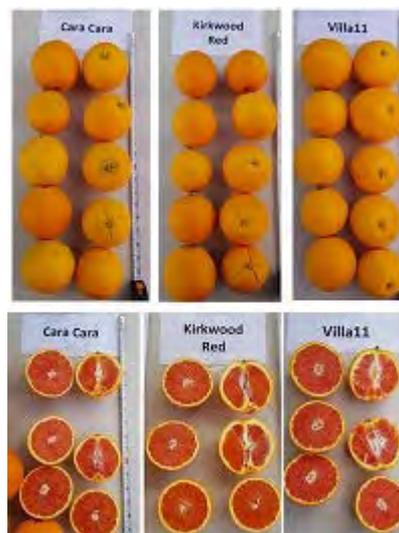
[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Sweet Orange (*Citrus sinensis*)**Variety:** 'Kirkwood Red'**Synonym:** N/A**Application no:** 2014/147**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 11-Jul-2014**Accepted:** 30-Jul-2015**Granted:** N/A**Description published in Plant Varieties Journal:** Volume 35, Issue 2**Title Holder:** Kirkwood Red Trust**Agent:** Variety Access Pty Ltd**Telephone:** 0741294147**Fax:** 0441294463

[View the detailed description of this variety.](#)



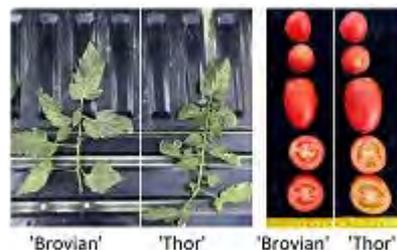
Plant Varieties Journal - Search Result Details

Tomato (*Solanum lycopersicum*)**Variety:** 'BROVIAN'**Synonym:** N/A**Application no:** 2021/158**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 26-Jul-2021**Accepted:** 29-Mar-2022**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Nunhems B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Tomato (*Solanum lycopersicum* L.)**Variety:** 'ADVENTURE'**Synonym:** N/A**Application no:** 2020/266**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 03-Nov-2020**Accepted:** 15-Jan-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: Rijk Zwaan Zaadteelt en Zaadhandel B.V.**Agent:** Spruson & Ferguson**Telephone:** 0293930100**Fax:** N/A

[View the detailed description of this variety.](#)



Plant Varieties Journal - Search Result Details

Wheat (*Triticum aestivum*)**Variety:** 'RGT_Cesario'**Synonym:** N/A**Application no:** 2020/279**Current status:** ACCEPTED**Certificate no:** N/A**Received:** 12-Nov-2020**Accepted:** 15-Jan-2021**Granted:** N/A

Description published in Plant Varieties Journal:
Volume 35, Issue 2

Title Holder: RAGT 2n**Agent:** Seedforce Pty Ltd**Telephone:** 0358323800**Fax:** N/A

[View the detailed description of this variety.](#)



'RGT_Cesario'

Details of Application

Application Number	2021/147
Variety Name	'Red Rio'
Genus Species	<i>Fragaria</i> × <i>ananassa</i>
Common Name	Strawberry
Accepted Date	19 Oct 2021
Applicant	Total Worldfresh Limited, Spalding, Lincolnshire PE11 3YR, Great Britain
Agent	Mountain Blue, South Lismore, NSW 2480
Qualified Person	Damien Clothier

Details of Comparative Trial

Overseas Testing Authority	DGAV-DVS, Portugal
Overseas Data Reference Number	2016/2104
Location	NECE-Escaroupim, Lisbon, Portugal
Descriptor	CPVO-TG/022/3 28/11/2012
Period	Two growing seasons 2017 and 2018
Conditions	Tests were conducted according to the CPVO Protocol for Distinctness, Uniformity and Stability Tests (CPVO-TP/022/3).
Trial Design	N/A
Measurements	All characteristics according to the CPVO guidelines
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: 'Red Rio' was developed in a planned strawberry breeding program based in Israel in 2007-2008. The parents 'Albion' and 'Red Merlin' were selected for their traits. Pollen from 'Red Merlin' was transferred to the receptacle of an 'Albion' flower that had been emasculated. The flower was then covered with a paper bag in a glasshouse environment and allowed to develop into fruit. The subsequent seed produced from the fruit was germinated and grown to maturity. One plant was selected from the resulting progeny in a field trial as the new variety 'Red Rio' (770) due to its fruit and plant qualities. Breeder: Eva Izsak, Rehovot 42910, Israel.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	semi upright
Petal	colour of upper side	white
Fruit	size	medium
Fruit	shape	conical
Fruit	colour	orange red
Plant	type of bearing	fully remontant

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Albion'	Maternal parent

‘Driscoll del Rey’

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘Red Rio’	‘Albion’	‘Driscoll del Rey’
<input checked="" type="checkbox"/> *Plant: growth habit	semi-upright	spreading	spreading
<input type="checkbox"/> Plant: density of foliage	medium		sparse
<input type="checkbox"/> Plant: vigour	strong		medium
<input type="checkbox"/> *Plant: position of inflorescence in relation to foliage	same level		above
<input type="checkbox"/> *Plant: number of stolons	few		absent or very few
<input checked="" type="checkbox"/> Stolon: anthocyanin colouration	absent or very weak	strong	
<input type="checkbox"/> Stolon: density of pubescence	medium		
<input type="checkbox"/> Leaf: size	medium		
<input type="checkbox"/> Leaf: colour of upper side	dark green		
<input checked="" type="checkbox"/> *Leaf: blistering	absent or weak	strong	strong
<input type="checkbox"/> *Leaf: glossiness	medium		
<input type="checkbox"/> Leaf: variegation	absent		
<input type="checkbox"/> *Terminal leaflet: length in relation to width	moderately longer	equal	
<input type="checkbox"/> *Terminal leaflet: shape of base	acute		
<input type="checkbox"/> Terminal leaflet: margin	crenate		
<input type="checkbox"/> Terminal leaflet: shape in cross section	straight	concave	
<input type="checkbox"/> Petiole: length	short to medium	short	medium
<input type="checkbox"/> Petiole: attitude of hairs	horizontal		
<input type="checkbox"/> Stipule: anthocyanin colouration	absent or very weak		
<input checked="" type="checkbox"/> Inflorescence: number of flowers	many	medium	
<input type="checkbox"/> Pedicel: attitude of hairs	slightly outwards		
<input type="checkbox"/> Flower: diameter	medium		
<input type="checkbox"/> *Flower: arrangement of petals	overlapping		
<input checked="" type="checkbox"/> *Flower: size of calyx in relation to corolla	same size	larger	larger
<input type="checkbox"/> *Flower: stamen	present		
<input type="checkbox"/> Petal: length in relation to width	equal		
<input type="checkbox"/> *Petal: colour of upper side	white		
<input checked="" type="checkbox"/> *Fruit: length in relation to width	much longer		equal
<input checked="" type="checkbox"/> *Fruit: size	medium	very large	large
<input type="checkbox"/> *Fruit: shape	conical		
<input type="checkbox"/> Fruit: difference in shape of terminal and other fruits	none or very slight		

<input type="checkbox"/> *Fruit: colour	orange red		
<input type="checkbox"/> Fruit: evenness of colour	even or very slightly uneven		
<input type="checkbox"/> Fruit: glossiness	strong		
<input type="checkbox"/> Fruit: evenness of surface	slightly uneven		
<input type="checkbox"/> Fruit: width of band without achenes	narrow	absent or very narrow	
<input type="checkbox"/> *Fruit: position of achenes	below surface	level with surface	
<input type="checkbox"/> Fruit: position of calyx attachment	level with fruits		
<input type="checkbox"/> Fruit: attitude of sepals	outwards		
<input type="checkbox"/> Fruit: diameter of calyx in relation to diameter of fruit	much larger	slightly larger	
<input checked="" type="checkbox"/> Fruit: adherence of calyx	very weak	strong	
<input type="checkbox"/> Fruit: firmness	very firm		
<input type="checkbox"/> Fruit: colour of flesh (excluding core)	light red		
<input type="checkbox"/> Fruit: colour of core	medium red		
<input type="checkbox"/> Fruit: cavity	medium	absent or small	
<input type="checkbox"/> *Time of: beginning of flowering	very early	late	early
<input type="checkbox"/> Time of: beginning of fruit ripening	very early	early	
<input type="checkbox"/> *Type of: bearing	fully remontant		

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Red Rio'	'Albion'	'Driscoll del Rey'
<input type="checkbox"/> Bract leaflet: presence	absent		
<input type="checkbox"/> Bract leaflet: size	N/A		
<input type="checkbox"/> Leaflets: number	three		

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2016	granted	'Red Rio'
Egypt	2019	granted	'Red Rio'

First sold in: Egypt, 31 October 2017.

Description: Damien Clothier, South Lismore, NSW 2480.

Details of Application

Application Number	2018/120
Variety Name	'Rutgers PassionDMR'
Genus Species	<i>Ocimum basilicum</i>
Common Name	Basil
Accepted Date	25 Jul 2018
Applicant	Rutgers, The State University of New Jersey, New Brunswick, New Jersey, USA
Agent	Phillips Ormonde Fitzpatrick, Melbourne, Vic 8007
Qualified Person	John Oates

Details of Comparative Trial

Overseas Testing Authority	Bundessortenamt, Germany
Overseas Data Reference Number	BAS 166
Location	Dachwig
Descriptor	UPOV TG/200/2 15/03/2017
Period	2019 - 2020
Conditions	As per test report BAS 166
Trial Design	As per test report BAS 166
Measurements	As per UPOV requirements.
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: Commencing August 2012 the female parent 'MR1' was crossed with the male parent 'SB22' from the resultant self-pollinated seedlings selection continued through 5 generations from which a line (469-11) was crossed with a male line 'SB13'. Selection then continued through three generations of self-pollination where the line 07_41_04 was selected for the various selection criteria, in particular downy mildew resistance. Breeder: James E. Simon, Robert Michael Pyne, Christain Andrew Wyenandt; Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	upright
Leaf Blade	intensity of anthocyanin colouration	absent or very weak
Flower	colour of corolla	white
Flowering	beginning of	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Gecom' (BAS 23)	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
---------	-------------------------------	--	---	----------

'Eleonora'	Plant: resistance to <i>Peronospora belbahrii</i>	high	low	
------------	---	------	-----	--

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Rutgers PassionDMR'	'Gecom'
<input type="checkbox"/> *Plant: habit	erect	
<input type="checkbox"/> *Plant: total height	medium to tall	
<input type="checkbox"/> Stem: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf blade: shape	elliptic	
<input type="checkbox"/> Leaf blade: length	medium to long	
<input type="checkbox"/> Leaf blade: width	broad	
<input type="checkbox"/> *Leaf blade: anthocyanin colouration of upper side	absent	
<input type="checkbox"/> *Leaf blade: green colour (varieties without anthocyanin only)	dark	
<input type="checkbox"/> Leaf blade: glossiness	medium	
<input type="checkbox"/> *Leaf blade: blistering	strong	
<input checked="" type="checkbox"/> Leaf blade: profile in cross section	v-shaped	convex
<input type="checkbox"/> *Leaf blade: serration of margin	present	
<input type="checkbox"/> Leaf blade: depth of serration	shallow to medium	
<input type="checkbox"/> Leaf blade: undulation of margin	very weak to weak	
<input checked="" type="checkbox"/> Petiole: length	long	medium
<input type="checkbox"/> Flowering stem: average length of internodes (at end of flowering)	short to medium	
<input type="checkbox"/> Flowering stem: total length (at end of flowering)	medium to long	
<input type="checkbox"/> *Flower: colour of corolla	white	
<input type="checkbox"/> Flower: colour of style	white	
<input type="checkbox"/> *Time of: flowering (10% of plants flowering)	medium	

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2017	Granted	'07-41_04'
EU	2018	Granted	'Rutgers Passion Dmr'

First sold in the Australia as '07_41_04'

Description: John Oates, Merimbula, NSW

Details of Application

Application Number	2021/197
Variety Name	'NAKANONOKIRAMEKI'
Genus Species	<i>Malus domestica</i>
Common Name	Apple
Synonym	Kirameki
Accepted Date	26 Oct 2021
Applicant	Kazuko Yoshiie, Nagano, Japan
Agent	AJ Park, Wellington, New Zealand
Qualified Person	Krys Lockhart

Details of Comparative Trial

Overseas Testing Authority	Plant Variety Protection Office, Intellectual Property Division, Export and International Affairs Bureau Ministry of Agriculture Forestry and Fisheries, Japan
Overseas Data Reference Number	Application No. 28947 (Registration No. 26831)
Location	On-site inspection by PVP Office, Nakano-shi, Nagano, Japan
Descriptor	TG/14/9
Period	2017
Conditions	As per overseas test report
Trial Design	In accordance with TG/14/9
Measurements	In accordance with TG/14/9
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: The variety 'NAKANONOKIRAMEKI' was bred by private breeder, Mr. Kazuo Yoshiie in Japan. The new plant variety described herein resulted from controlled cross pollination between ('Jonathan' x 'Pink Pearl') x 'Fuji'. The new variety was determined to be distinct from the parent varieties. Breeder: Kazuko Yoshiie, Nagano, Japan.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	shape	obloid
Fruit:	hue of over colour with bloom removed	purple red
Fruit	pattern of over colour	solid flush with weakly defined stripes.
Fruit:	relative area of over colour	absent or very weak
Fruit:	firmness of flesh	soft
Fruit:	time of harvest	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'KURENAINOYUME'	

'HFF60'

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'NAKANONOKIR AMEKI'	'KURENAINOYU ME'	'HFF60'
<input type="checkbox"/> Tree: vigour	medium		
<input type="checkbox"/> *Tree: type	ramified		
<input type="checkbox"/> *Tree: habit (varieties with ramified tree type only)	spreading		
<input type="checkbox"/> Tree: type of bearing	on spurs and long shoots		
<input type="checkbox"/> One-year-old shoot: thickness	thin to medium		
<input type="checkbox"/> *One-year-old shoot: length of internode	medium		
<input type="checkbox"/> One-year-old shoot: colour on sunny side	medium brown		
<input type="checkbox"/> One-year-old shoot: pubescence	medium		
<input type="checkbox"/> *One-year-old shoot: number of lenticels	medium		
<input type="checkbox"/> *Leaf blade: attitude in relation to shoot	outwards		
<input type="checkbox"/> *Leaf blade: length	medium		
<input type="checkbox"/> *Leaf blade: width	narrow		
<input type="checkbox"/> *Leaf blade: ratio length/width	large		
<input type="checkbox"/> Leaf blade: intensity of green colour	medium		
<input type="checkbox"/> Leaf blade: incisions of margins	serrate type 2		
<input type="checkbox"/> Leaf blade: pubescence on lower side	absent or weak		
<input type="checkbox"/> *Petiole: length	medium		
<input type="checkbox"/> Petiole: extent of anthocyanin colouration from base	small		
<input type="checkbox"/> *Flower: predominant colour at balloon stage	dark pink		
<input type="checkbox"/> *Flower: diameter with petals pressed into horizontal position	small to medium		
<input type="checkbox"/> *Flower: arrangement of petals	free		
<input type="checkbox"/> Flower: position of stigmas relative to anthers	above		
<input type="checkbox"/> Young fruit: extent of anthocyanin overcolour	absent or very small		
<input type="checkbox"/> *Fruit: size	large		
<input type="checkbox"/> *Fruit: height	tall		

<input type="checkbox"/> *Fruit: diameter	medium to large	
<input type="checkbox"/> *Fruit: ratio height/diameter	medium	
<input checked="" type="checkbox"/> *Fruit: general shape	ellipsoid	obloid
<input type="checkbox"/> Fruit: ribbing	absent or weak	
<input type="checkbox"/> Fruit: crowning at calyx end	absent or weak	
<input type="checkbox"/> *Fruit: size of eye	medium to large	
<input type="checkbox"/> Fruit: length of sepal	medium	
<input type="checkbox"/> *Fruit: bloom of skin	absent or weak	
<input type="checkbox"/> Fruit: greasiness of skin	absent or weak	
<input type="checkbox"/> *Fruit: ground colour	yellow green	
<input checked="" type="checkbox"/> *Fruit: relative area of over colour	medium	absent or very small
<input checked="" type="checkbox"/> *Fruit: hue of over colour with bloom removed	orange red	purple red
<input type="checkbox"/> *Fruit: intensity of over colour	very light to light	
<input checked="" type="checkbox"/> *Fruit: pattern of over colour	only solid flush	solid flush with weakly defined stripes
<input type="checkbox"/> *Fruit: area of russet around stalk attachment	absent or small	
<input type="checkbox"/> Fruit: area of russet on cheeks	absent or small	
<input type="checkbox"/> *Fruit: area of russet around eye basin	absent or small	
<input type="checkbox"/> Fruit: number of lenticels	medium	
<input type="checkbox"/> Fruit: size of lenticels	large	
<input type="checkbox"/> *Fruit: length of stalk	long	
<input type="checkbox"/> *Fruit: thickness of stalk	medium	
<input type="checkbox"/> *Fruit: depth of stalk cavity	medium	
<input type="checkbox"/> *Fruit: width of stalk cavity	narrow	
<input type="checkbox"/> *Fruit: depth of eye basin	deep	
<input type="checkbox"/> *Fruit: width of eye basin	medium	
<input checked="" type="checkbox"/> *Fruit: firmness of flesh	firm	soft
<input type="checkbox"/> *Fruit: colour of flesh	pinkish	
<input type="checkbox"/> *Fruit: aperture of locules	moderately open	
<input type="checkbox"/> *Time of: beginning of flowering	medium	
<input checked="" type="checkbox"/> Time for: harvest	late	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2016	Granted	'KIRAMEKI'
Japan	2017	Granted	'NAKANONOKIRAMEKI'

CPVO	2021	Filed	'KIRAMEKI'
South Africa	2021	Filed	'KIRAMEKI'
New Zealand	2021	Filed	'KIRAMEKI'

First sold in Japan in October 2015.

Description: Krys Lockhart, Narre Warren North, VIC 3804.

Details of Application

Application Number	2022/047
Variety Name	'Nzsummer4'
Genus Species	<i>Prunus armeniaca</i>
Common Name	Apricot
Accepted Date	02 Jun 2022
Applicant	The New Zealand Institute for Plant and Food Research Limited, Auckland 1025, New Zealand
Agent	AJ Park, Sydney 2001, NSW
Qualified Person	Arlene Nixon

Details of Comparative Trial

Overseas Testing Authority	New Zealand
Overseas Data Reference Number	SFM152
Location	Clyde Research Centre, Alexandra 9391, New Zealand
Descriptor	TG/70/4 2007
Period	2015 - 2017
Conditions	Grown under outdoor conditions
Trial Design	Plants of the candidate were observed alongside comparator plants and reference variety plants
Measurements	Observations taken from a minimum of 5 plants or plant parts taken off each of the 5 plants
RHS Chart - edition	RHS 2007

Origin and Breeding

Controlled pollination: The crosses were made in 2003 between 'Bhart' (female parent) and 'NJA54' (male parent) and the progeny was grown for evaluation. The seedling was selected 2009 for very early harvest, strong apricot flavour and clean-skinned fruit. The candidate was asexually propagated in 2010 and planted in the field in 2011. From 2013 to 2015 the variety was assessed in clonal trials in Clyde Research Centre. 'Nzsummer4' continues to be maintained at the Clyde Research Centre, New Zealand. Breeder: The New Zealand Institute for Plant and Food Research Limited, Auckland 1025, New Zealand.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	size	small
Fruit	ground colour of skin	medium orange
Fruit	relative area of overcolour	medium to large
Fruit	flesh colour	medium orange
Time of beginning of flowering		late
Time of beginning of fruit ripening		very early

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Royal Rosa'	
'Newcastle'	
'Castle Bright'	
'Bhart'	Maternal parent

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Nzsummer4'	'Bhart'	'Castle Bright'	'Newcastle'	'Royal Rosa'
<input type="checkbox"/> Tree: vigour					medium
<input type="checkbox"/> Tree: habit					upright to spreading
<input type="checkbox"/> Tree: degree of branching					medium
<input type="checkbox"/> *Tree: distribution of flower buds					equally on spurs and on shoots
<input type="checkbox"/> *Young shoot: anthocyanin colouration of apex					strong
<input type="checkbox"/> One-year-old shoot: colour on sunny side					yellow brown
<input type="checkbox"/> One-year old shoot: size of bud support					medium
<input type="checkbox"/> Leaf blade: length					long
<input type="checkbox"/> Leaf blade: width					medium
<input type="checkbox"/> Leaf blade: ratio length/width					medium
<input type="checkbox"/> Leaf blade: intensity of green colour of upper side					medium
<input type="checkbox"/> Leaf blade: shape of base					cordate
<input type="checkbox"/> Leaf blade: angle of apex (excluding tip)					acute
<input type="checkbox"/> Leaf blade: length of tip					medium to long
<input type="checkbox"/> Leaf blade: incisions of margin					biserrate
<input type="checkbox"/> Leaf blade: undulation of margin					medium
<input type="checkbox"/> Leaf blade: profile in cross section					moderately concave
<input type="checkbox"/> *Petiole: length					medium
<input type="checkbox"/> Leaf: ratio length of blade/length of petiole					medium
<input type="checkbox"/> Petiole: thickness					thick
<input type="checkbox"/> Petiole: anthocyanin colouration of upper side					strong
<input type="checkbox"/> *Petiole: predominant number of nectaries					two or three

<input type="checkbox"/>	Petiole: size of nectaries	medium	
<input type="checkbox"/>	*Flower: diameter	medium	
<input type="checkbox"/>	Flower: position of stigma relative to anthers	same level	
<input type="checkbox"/>	Petal: shape (excluding claw)	circular	
<input type="checkbox"/>	Petal: colour on lower side	light pink	
<input checked="" type="checkbox"/>	*Fruit: size	small	very small
<input type="checkbox"/>	Fruit: shape in lateral view	obovate	
<input type="checkbox"/>	Fruit: shape in ventral view	ovate	
<input type="checkbox"/>	Fruit: height	medium	
<input type="checkbox"/>	Fruit: lateral width	medium	
<input type="checkbox"/>	Fruit: ventral width	medium	
<input type="checkbox"/>	Fruit: ratio height/ventral width	medium	
<input type="checkbox"/>	Fruit: ratio lateral width/ventral width	medium	
<input type="checkbox"/>	Fruit: symmetry in ventral view	symmetric	
<input type="checkbox"/>	*Fruit: suture	slightly sunken	
<input type="checkbox"/>	*Fruit: depth of stalk cavity	deep	
<input type="checkbox"/>	*Fruit: shape of apex	retuse	
<input type="checkbox"/>	Fruit: presence of mucron	absent	
<input type="checkbox"/>	Fruit: surface	smooth	
<input type="checkbox"/>	Fruit: pubescence	present	
<input checked="" type="checkbox"/>	*Fruit: ground colour	medium orange	yellow green
<input type="checkbox"/>	*Fruit: relative area of over colour	medium to large	
<input type="checkbox"/>	Fruit: hue of over colour	purple	
<input type="checkbox"/>	Fruit: intensity of over colour	dark	
<input type="checkbox"/>	Fruit: pattern of over colour	solid flush	
<input type="checkbox"/>	*Fruit: colour of flesh	medium orange	
<input type="checkbox"/>	Fruit: texture of flesh	fine	
<input type="checkbox"/>	Fruit: firmness of flesh	medium to firm	
<input type="checkbox"/>	Fruit: ratio weight of fruit/weight of stone	medium	
<input type="checkbox"/>	*Fruit: adherence of stone to flesh	absent or very weak	
<input type="checkbox"/>	*Stone: shape in lateral view	elliptic	
<input type="checkbox"/>	Kernel: bitterness	absent or very weak	
<input type="checkbox"/>	*Time of: beginning of flowering	late	
<input checked="" type="checkbox"/>	*Time of: beginning of fruit ripening	very early	very early to very early to

early early

Prior Applications and Sales:

Country	Year	Status	Name Applied
New Zealand	2016	granted	'Nzsummer4'

First sold in: Nil.**Description:** Arlene Nixon, Alexandra 9391, New Zealand.

Details of Application

Application Number	2022/046
Variety Name	'Nzsummer3'
Genus Species	<i>Prunus armeniaca</i>
Common Name	Apricot
Accepted Date	14 Apr 2022
Applicant	The New Zealand Institute for Plant and Food Research Limited
Agent	AJ Park, Sydney 2001, NSW
Qualified Person	Arlene Nixon

Details of Comparative Trial

Overseas Testing Authority	New Zealand
Overseas Data Reference Number	SFM150
Location	Clyde Research Centre, Alexandra 9391, New Zealand
Descriptor	TG/70/4 2007
Period	2015 - 2017
Conditions	Grown under outdoor conditions
Trial Design	Plants of the candidate were observed alongside comparator plants and reference plants
Measurements	Observations taken from a minimum of five plants or plant parts taken off each of the five plants
RHS Chart - edition	RHS 2007

Origin and Breeding

Controlled pollination: The crosses were made in 2001 between 'Bhart' (female parent) and 'Late Moorpark' (male parent) and the progeny was grown for evaluation. In 2006, 'Nzsummer3' was identified to have potential as a new variety. Later in 2006, 'Nzsummer3' was asexually propagated by budding onto 'Golden Queen' rootstock. The resulting trees were planted out at Clyde Research Centre in winter 2007. From 2010-2014 the variety was assessed in clonal trials at Clyde Research Centre. 'Nzsummer3' continues to be maintained at the Clyde Research Centre, New Zealand. Breeder: The New Zealand Institute for Plant and Food Research Limited, Auckland 1025, New Zealand.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	size	small to medium
Fruit	ground colour of skin	medium orange
Fruit	relative area of overcolour	large to very large
Fruit	flesh colour	medium orange
Plant	time of flowering	medium to late
Fruit	harvest date	late to very late

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Larclyd'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Nzsummer3'	'Larclyd'
<input type="checkbox"/> Tree: vigour	medium	
<input type="checkbox"/> Tree: habit	upright to spreading	
<input type="checkbox"/> Tree: degree of branching	medium	
<input type="checkbox"/> *Tree: distribution of flower buds	equally on spurs and shoots	
<input type="checkbox"/> *Young shoot: anthocyanin colouration of apex	strong	
<input type="checkbox"/> One-year-old shoot: colour on sunny side	red brown	
<input type="checkbox"/> One-year old shoot: size of bud support	medium	
<input type="checkbox"/> Leaf blade: length	medium	
<input type="checkbox"/> Leaf blade: width	medium to broad	
<input type="checkbox"/> Leaf blade: ratio length/width	medium	
<input type="checkbox"/> Leaf blade: intensity of green colour of upper side	medium	
<input type="checkbox"/> Leaf blade: shape of base	cordate	
<input type="checkbox"/> Leaf blade: angle of apex (excluding tip)	moderately obtuse	
<input type="checkbox"/> Leaf blade: length of tip	medium to long	
<input type="checkbox"/> Leaf blade: incisions of margin	serrate	
<input type="checkbox"/> Leaf blade: undulation of margin	medium	
<input type="checkbox"/> Leaf blade: profile in cross section	moderately concave	
<input type="checkbox"/> *Petiole: length	medium	
<input type="checkbox"/> Leaf: ratio length of blade/length of petiole	medium	
<input type="checkbox"/> Petiole: thickness	medium	
<input type="checkbox"/> Petiole: anthocyanin colouration of upper side	strong	
<input type="checkbox"/> *Petiole: predominant number of nectaries	two or three	
<input type="checkbox"/> Petiole: size of nectaries	small to medium	
<input type="checkbox"/> *Flower: diameter	medium	
<input type="checkbox"/> Flower: position of stigma relative to anthers	same level	
<input type="checkbox"/> Petal: shape (excluding claw)	circular	
<input type="checkbox"/> Petal: colour on lower side	light pink	
<input type="checkbox"/> *Fruit: size	small to medium	
<input type="checkbox"/> Fruit: shape in lateral view	oblique rhombic	
<input type="checkbox"/> Fruit: shape in ventral view	obovate	
<input type="checkbox"/> Fruit: height	short to medium	
<input type="checkbox"/> Fruit: lateral width	medium	
<input type="checkbox"/> Fruit: ventral width	narrow to medium	

<input type="checkbox"/>	Fruit: ratio height/ventral width	medium	
<input type="checkbox"/>	Fruit: ratio lateral width/ventral width	medium	
<input type="checkbox"/>	Fruit: symmetry in ventral view	slightly asymmetric	
<input type="checkbox"/>	*Fruit: suture	slightly sunken	
<input type="checkbox"/>	*Fruit: depth of stalk cavity	medium	
<input type="checkbox"/>	*Fruit: shape of apex	retuse	
<input type="checkbox"/>	Fruit: presence of mucron	absent	
<input type="checkbox"/>	Fruit: surface	smooth	
<input type="checkbox"/>	Fruit: pubescence	present	
<input type="checkbox"/>	Fruit: glossiness (varieties with pubescence absent only)	absent or weak	
<input checked="" type="checkbox"/>	*Fruit: ground colour of skin	medium orange	yellow green
<input checked="" type="checkbox"/>	*Fruit: relative area of over colour	large to very large	medium
<input type="checkbox"/>	Fruit: hue of over colour	orange red	
<input type="checkbox"/>	Fruit: intensity of over colour	very dark	
<input checked="" type="checkbox"/>	Fruit: pattern of over colour	solid flush	covered all over with very small dots
<input type="checkbox"/>	*Fruit: colour of flesh	medium orange	
<input type="checkbox"/>	Fruit: texture of flesh	fine	
<input type="checkbox"/>	Fruit: firmness of flesh	firm	
<input type="checkbox"/>	Fruit: ratio weight of fruit/weight of stone	medium	
<input type="checkbox"/>	*Fruit: adherence of stone to flesh	absent or very weak	
<input type="checkbox"/>	*Stone: shape in lateral view	circular	
<input type="checkbox"/>	Kernel: bitterness	medium	
<input type="checkbox"/>	*Time of: beginning of flowering	medium to late	
<input type="checkbox"/>	*Time of: beginning of fruit ripening	late to very late	

Prior Applications and Sales:

Country	Year	Status	Name Applied
New Zealand	2016	granted	'Nzsummer3'
United States	2014	granted	'Nzsummer3'

First sold in: Nil.

Description: Arlene Nixon, Alexandra 9391, New Zealand.

Details of Application

Application Number	2022/045
Variety Name	'Nzsummer2'
Genus Species	<i>Prunus armeniaca</i>
Common Name	Apricot
Accepted Date	14 Apr 2022
Applicant	The New Zealand Institute for Plant and Food Research Limited, Auckland 1025, New Zealand
Agent	AJ Park, Sydney 2001, NSW
Qualified Person	Arlene Nixon

Details of Comparative Trial

Overseas Testing Authority	New Zealand
Overseas Data Reference Number	SFM141
Location	Clyde Research Centre, Alexandra 9391, New Zealand
Descriptor	TG/70/4 2007
Period	2013 - 2015
Conditions	Grown under outdoor conditions
Trial Design	Plants of the candidate were observed alongside comparator plants and reference plants
Measurements	Observations taken from a minimum of five plants or plant parts taken off each of the five plants
RHS Chart - edition	RHS 2007

Origin and Breeding

Controlled pollination: The crosses were made in 2003 between 'Bhart' (female parent) and ('Cluthagold' x 'Late Moorpark') (male parent) and the progeny was grown for evaluation. In 2009 'Nzsummer2' was identified as having potential as a new variety. Later in 2009, 'Nzsummer2' was asexually propagated from bud wood taken at Clyde Research Centre and budded at Hawke's Bay Research Centre onto 'Golden Queen' rootstocks. The resulting trees were planted at Clyde Research Center in winter 2010. 'Nzsummer2' continues to be maintained at the Clyde Research Centre, New Zealand. Breeder: The New Zealand Institute for Plant and Food Research Limited, Auckland 1025, New Zealand.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	harvest date	late
Fruit	size	medium
Fruit	ground colour of skin	medium orange
Fruit	flesh colour	medium orange

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Cluthagold'	
'Bhart'	Maternal parent

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Nzsummer2'	'Cluthagold'	'Bhart'
<input type="checkbox"/> Tree: vigour	medium		
<input type="checkbox"/> Tree: habit	upright to spreading		
<input type="checkbox"/> Tree: degree of branching	medium		
<input type="checkbox"/> *Tree: distribution of flower buds	equally on spurs and shoots		
<input type="checkbox"/> *Young shoot: anthocyanin colouration of apex	medium		
<input type="checkbox"/> One-year-old shoot: colour on sunny side	yellow brown		
<input type="checkbox"/> One-year old shoot: size of bud support	medium		
<input type="checkbox"/> Leaf blade: length	medium		
<input type="checkbox"/> Leaf blade: width	medium		
<input type="checkbox"/> Leaf blade: ratio length/width	large		
<input type="checkbox"/> Leaf blade: intensity of green colour of upper side	medium		
<input type="checkbox"/> Leaf blade: shape of base	truncate		
<input type="checkbox"/> Leaf blade: angle of apex (excluding tip)	moderately obtuse		
<input type="checkbox"/> Leaf blade: length of tip	medium		
<input type="checkbox"/> Leaf blade: incisions of margin	serrate		
<input type="checkbox"/> Leaf blade: undulation of margin	medium		
<input type="checkbox"/> Leaf blade: profile in cross section	moderately concave		
<input type="checkbox"/> *Petiole: length	medium		
<input type="checkbox"/> Leaf: ratio length of blade/length of petiole	medium		
<input type="checkbox"/> Petiole: thickness	medium		
<input type="checkbox"/> Petiole: anthocyanin colouration of upper side	medium		
<input type="checkbox"/> *Petiole: predominant number of nectaries	two or three		
<input type="checkbox"/> Petiole: size of nectaries	medium		
<input type="checkbox"/> *Flower: diameter	medium		
<input type="checkbox"/> Flower: position of stigma relative to anthers	same level		
<input type="checkbox"/> Petal: shape (excluding claw)	broad elliptic		
<input type="checkbox"/> Petal: colour on lower side	white		
<input checked="" type="checkbox"/> *Fruit: size	medium	large	large
<input type="checkbox"/> Fruit: shape in lateral view	circular		
<input type="checkbox"/> Fruit: shape in ventral view	elliptic		
<input type="checkbox"/> Fruit: height	medium		
<input type="checkbox"/> Fruit: lateral width	medium		
<input type="checkbox"/> Fruit: ventral width	medium		
<input type="checkbox"/> Fruit: ratio height/ventral width	small		

<input type="checkbox"/>	Fruit: ratio lateral width/ventral width	medium
<input type="checkbox"/>	Fruit: symmetry in ventral view	symmetric
<input type="checkbox"/>	*Fruit: suture	slightly sunken
<input type="checkbox"/>	*Fruit: depth of stalk cavity	medium
<input type="checkbox"/>	*Fruit: shape of apex	rounded
<input type="checkbox"/>	Fruit: presence of mucron	absent
<input type="checkbox"/>	Fruit: surface	smooth
<input type="checkbox"/>	Fruit: pubescence	absent
<input type="checkbox"/>	Fruit: glossiness (varieties with pubescence absent only)	absent or weak
<input type="checkbox"/>	*Fruit: ground colour	medium orange
<input type="checkbox"/>	*Fruit: relative area of over colour	medium
<input type="checkbox"/>	Fruit: hue of over colour	orange red
<input type="checkbox"/>	Fruit: intensity of over colour	medium
<input type="checkbox"/>	Fruit: pattern of over colour	solid flush
<input type="checkbox"/>	*Fruit: colour of flesh	medium orange
<input type="checkbox"/>	Fruit: texture of flesh	fine
<input type="checkbox"/>	Fruit: firmness of flesh	medium
<input type="checkbox"/>	Fruit: ratio weight of fruit/weight of stone	medium
<input type="checkbox"/>	*Fruit: adherence of stone to flesh	weak
<input type="checkbox"/>	*Stone: shape in lateral view	obovate
<input type="checkbox"/>	Kernel: bitterness	medium
<input type="checkbox"/>	*Time of: beginning of flowering	late
<input type="checkbox"/>	*Time of: beginning of fruit ripening	late

Prior Applications and Sales:

Country	Year	Status	Name Applied
New Zealand	2013	granted	'Nzsummer2'
United States	2013	granted	'Mac12/45'

First sold in: Nil.

Description: Arlene Nixon, Alexandra 9391, New Zealand.

Details of Application

Application Number	2021/140
Variety Name	'CYCLOPS'
Genus Species	<i>Hordeum vulgare</i>
Common Name	Barley
Accepted Date	04 Aug 2021
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA 5371
Qualified Person	Stewart Coventry

Details of Comparative Trial

Location	Roseworthy, South Australia
Descriptor	Barley TG 19/10
Period	May - November 2021
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year, the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Roundup Ultra (1.5 l/ha), Voraxor (100mls) Hasten (1l/100l), Boxergold (2.5L) and Avadex (2L) were applied prior to seeding. The trial was sown on 5 June 2021 and 90kg MAP + 2.5% zinc fertiliser was sown with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 7th August with Paradigm (25g), Axial xtra (400mls), Lontrel (40mls), MCPA LVE 570 (500mls), Ally (5g) and BS1000 (200mls/100L) to control weeds. On the 16 August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 18 August using Prosaro @ 300mls and BS1000 (200mls/100L), and again on the 14 September. The season finished early with limited spring rainfall. The trial was harvested on 22 November 2021.
Trial Design	Randomised block design of 3 blocks, consisting of 8 potential comparators and the candidates. Sown in 24 ranges of 2 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on randomly sampled plants from each replicate. There were 10 measurements of plant height, and 30 spikes measurement after maturity. Statistical analyses were completed using the R software.
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: A cross was made between the two parents to generate a population,

with F1 though to F3 selection occurring at Roseworthy (SA). Fixed lines were derived and grown in 2016. In 2017 these lines entered an agronomic, disease and quality testing network across, Western Australia, South Australia, Victoria, New South Wales and Queensland. In 2018 a selection was identified which became AGTB0200. In 2020 AGTB0200 entered the National Variety Trials (NVT) across, South Australia, Victoria, Western Australia, Queensland, New South Wales and Tasmania. Seed purification began in the summer of 2018-2019 and this seed was used as the source for commercial seed multiplication. Breeder: Paul Telfer, Stewart Coventry and Haydn Kuchel, Australian Grain Technologies Pty Ltd, Roseworthy, SA 5371.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	erect
Flag leaf	anthocyanin colouration of auricles	present
Ear	shape	slightly tapering
Grain	rachilla hair type	short
Grain	husk	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'HINDMARSH'	
'LATROBE'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Rosalind'	grain: rachilla hair type	short	long	
'Spartacus CL'	plant	intolerant	tolerant	
'Maximus'	plant: imidazolinone herbicide tolerance	intolerant	tolerant	
'Barque'	plant: length	medium	long	
'Flagship'	plant: length	medium	medium to long	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'CYCLOPS'	'HINDMARSH'	'LATROBE'
<input type="checkbox"/> *Plant: growth habit	erect	erect	erect
<input type="checkbox"/> *Lowest leaves: hairiness of leaf sheaths	absent	absent	absent
<input type="checkbox"/> *Flag leaf: anthocyanin colouration of auricles	present	present	present

<input checked="" type="checkbox"/> *Flag leaf: intensity of anthocyanin colouration of auricles	medium	medium to strong	strong
<input type="checkbox"/> Plant: frequency of plants with recurved flag leaves	absent or very low	absent or very low	absent or very low
<input checked="" type="checkbox"/> Flag leaf: glaucosity of sheath	strong	strong	medium
<input type="checkbox"/> *Time of: ear emergence	early to medium	very early to early	early to medium
<input type="checkbox"/> *Awns: anthocyanin colouration of tips	present	present	present
<input checked="" type="checkbox"/> *Awns: intensity of anthocyanin colouration of tips	weak to medium	medium to strong	strong
<input checked="" type="checkbox"/> *Ear: glaucosity	medium	very weak to weak	medium
<input type="checkbox"/> Ear: attitude	semi-erect to horizontal	semi-recurved to recurved	semi-erect to horizontal
<input type="checkbox"/> *Plant: length	short	short	short
<input type="checkbox"/> *Ear: number of rows	two	two	two
<input type="checkbox"/> Ear: shape	tapering	tapering	tapering
<input type="checkbox"/> *Ear: density	medium	medium	medium
<input type="checkbox"/> Ear: length	medium	medium	medium
<input type="checkbox"/> *Awn: length	short to medium	short to medium	short
<input type="checkbox"/> Rachis: length of first segment	short	short	short
<input checked="" type="checkbox"/> Rachis: curvature of first segment	medium	weak	medium
<input type="checkbox"/> *Sterile spikelet: attitude	parallel to weakly divergent	parallel to weakly divergent	parallel to weakly divergent
<input checked="" type="checkbox"/> Median spikelet: length of glume and its awn relative to grain	equal	shorter	shorter
<input type="checkbox"/> *Grain: rachilla hair type	short	short	short
<input type="checkbox"/> *Grain: husk	present	present	present
<input type="checkbox"/> Grain: anthocyanin colouration of nerves of lemma	weak to medium	absent or very weak	absent or very weak
<input type="checkbox"/> Grain: spiculation of inner lateral nerves of dorsal side of lemma	weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Grain: hairiness of ventral furrow	absent	absent	absent
<input checked="" type="checkbox"/> Grain: disposition of lodicules	clasping	frontal	clasping
<input type="checkbox"/> Kernel: colour of aleurone layer	whitish	whitish	whitish
<input type="checkbox"/> *Season: type	spring type	spring type	spring type

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘CYCLOPS’	‘HINDMARSH’	‘LATROBE’
<input checked="" type="checkbox"/> Resistance to: cereal cyst nematode	absent	present	present
<input type="checkbox"/> B-amylase isoform:	Sd1	Sd2H	Sd2H

Statistical Table**Organ/Plant Part: Context** **‘CYCLOPS’** **‘HINDMARSH’** **‘LATROBE’**

<input type="checkbox"/>	Time of: ear emergence (Julian days)			
Mean	257.0	257.0	257.7	
Std. Deviation	1.0	1.0	1.2	
Lsd/sig	1.8	ns	ns	
<input type="checkbox"/>	Plant: length (cm)			
Mean	78.7	83.0	85.1	
Std. Deviation	3.8	4.3	2.2	
Lsd/sig	7.8	ns	ns	
<input checked="" type="checkbox"/>	awn: length (mm)			
Mean	67.0	62.0	57.0	
Std. Deviation	2.6	3.6	1.7	
Lsd/sig	7.5	ns	P ≤ 0.01	
<input type="checkbox"/>	Grain: number of grains per ear			
Mean	26.00	26.0	27.0	
Std. Deviation	1.0	1.7	0.0	
Lsd/sig	2.5	ns	ns	
<input type="checkbox"/>	Head: length (mm)			
Mean	68.7	69.3	71.0	
Std. Deviation	1.5	2.5	2.0	
Lsd/sig	5.0	ns	ns	

Prior Applications and Sales: Nil.**Description:** Stewart Coventry, Roseworthy, SA 5371.

Details of Application

Application Number	2021/141
Variety Name	'Minotaur'
Genus Species	<i>Hordeum vulgare</i>
Common Name	Barley
Accepted Date	06 Aug 2021
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA 5371
Qualified Person	Stewart Coventry

Details of Comparative Trial

Location	Roseworthy, South Australia
Descriptor	Barley TG 19/10
Period	May - November 2021
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year, the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Roundup Ultra (1.5 l/ha), Voraxor (100mls) Hasten (1l/100l), Boxergold (2.5L) and Avadex (2L) were applied prior to seeding. The trial was sown on 5 June 2021 and 90kg MAP + 2.5% zinc fertiliser was sown with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 7th August with Paradigm (25g), Axial xtra (400mls), Lontrel (40mls), MCPA LVE 570 (500mls), Ally (5g) and BS1000 (200mls/100L) to control weeds. On the 16 August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 18 August using Prosaro @ 300mls and BS1000 (200mls/100L), and again on the 14 September. The season finished early with limited spring rainfall. The trial was harvested on 22 November 2021.
Trial Design	Randomised block design of 3 blocks, consisting of 8 potential comparators and the candidates. Sown in 24 ranges of 2 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on randomly sampled plants from each replicate. There were 10 measurements of plant height and 30 spike measurements after maturity. Statistical analyses were completed using R software.
RHS Chart - edition	n/a

Origin and Breeding

Cross pollination: A cross was made between the two parents to generate a population "HV0032", with F1 though to F4 selection occurring at Roseworthy (SA). Fixed lines were derived and grown in 2016. In 2017 these lines entered an agronomic, disease and quality testing network across Western Australia, South Australia, Victoria, New South Wales and Queensland. In 2018 a selection was identified which became AGTB0213. In 2020 AGTB0213 entered the

National Variety Trials (NVT) across South Australia, Victoria, Western Australia, Queensland, and New South Wales and Tasmania. Seed purification began in the summer of 2018-2019 and this seed was used as the source for commercial seed multiplication. Breeder: Paul Telfer, Stewart Coventry and Haydn Kuchel, Australian Grain Technologies Pty Ltd, Roseworthy, SA 5371.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Flag leaf	anthocyanin colouration of auricles	present
Flag leaf	glaucosity of sheath	medium to strong or strong
Time of	ear emergence	medium/medium-late/med-early
Grain	rachilla hair type	long
Ear	shape	tapering
Awn	Length	long or long to very long

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Compass'	
'Leabrook'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'ARAPILES'	Plant: resistance to cereal cyst nematode	present	absent	
'RGT Planet'	Ear: development of sterile spikelets	full	none	
'TULLA'	Plant: acid tolerance	intolerant	tolerant	
'CHIEFTAIN'	Flag Leaf: intensity of anthocyanin colouration of auricles	weak to medium	very strong	
'KAPUTAR'	Plant: growth habit	semi-erect	semi-prostrate	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Minotaur'	'Compass'	'Leabrook'
<input type="checkbox"/> *Plant: growth habit	semi-erect	semi-erect	erect to semi-erect
<input type="checkbox"/> *Lowest leaves: hairiness of leaf sheaths	absent	absent	absent
<input type="checkbox"/> *Flag leaf: anthocyanin colouration of auricles	present	present	present
<input checked="" type="checkbox"/> *Flag leaf: intensity of anthocyanin	very weak	medium to strong	medium

colouration of auricles			
<input type="checkbox"/> Plant: frequency of plants with recurved flag leaves	low	low	low
<input type="checkbox"/> Flag leaf: glaucosity of sheath	strong	medium to strong	strong
<input type="checkbox"/> *Time of: ear emergence	medium	early to medium	early to medium
<input type="checkbox"/> *Awns: anthocyanin colouration of tips	present	present	present
<input type="checkbox"/> *Awns: intensity of anthocyanin colouration of tips	weak	weak to medium	weak to medium
<input type="checkbox"/> *Ear: glaucosity	medium	weak to medium	medium to strong
<input type="checkbox"/> Ear: attitude	semi-recurved	semi-recurved	horizontal to semi-recurved
<input checked="" type="checkbox"/> *Plant: length	short	long	long
<input type="checkbox"/> *Ear: number of rows	two	two	two
<input type="checkbox"/> Ear: shape	tapering	tapering	tapering
<input type="checkbox"/> *Ear: density	medium	medium	medium
<input type="checkbox"/> Ear: length	medium	medium	medium
<input checked="" type="checkbox"/> *Awn: length	long	long	very long
<input type="checkbox"/> Rachis: length of first segment	medium	medium	medium to long
<input type="checkbox"/> Rachis: curvature of first segment	absent or very weak	absent or very weak	very weak to weak
<input type="checkbox"/> *Sterile spikelet: attitude	parallel to weakly divergent	parallel to weakly divergent	parallel to weakly divergent
<input type="checkbox"/> Median spikelet: length of glume and its awn relative to grain	equal	equal	equal
<input type="checkbox"/> *Grain: rachilla hair type	long	long	long
<input type="checkbox"/> *Grain: husk	present	present	present
<input type="checkbox"/> Grain: anthocyanin colouration of nerves of lemma	absent or very weak	absent or very weak	weak to medium
<input type="checkbox"/> Grain: spiculation of inner lateral nerves of dorsal side of lemma	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Grain: hairiness of ventral furrow	absent	absent	absent
<input type="checkbox"/> Grain: disposition of lodicules	clasping	clasping	clasping
<input type="checkbox"/> Kernel: colour of aleurone layer	whitish	whitish	whitish
<input type="checkbox"/> *Season: type	spring type	spring type	spring type

Statistical Table

Organ/Plant Part: Context	'Minotaur'	'Compass'	'Leabrook'
<input type="checkbox"/> Time of: ear emergence (Julian days)			
Mean	259.3	258.0	257.7
Std. Deviation	0.6	0.0	0.6
Lsd/sig	1.8	ns	ns

<input checked="" type="checkbox"/> Plant: length (cm)			
Mean	79.2	98.3	99.9
Std. Deviation	2.4	8.1	5.6
Lsd/sig	7.8	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> awn: length (mm)			
Mean	97.0	100.3	107.0
Std. Deviation	4.6	3.2	3.6
Lsd/sig	7.5	ns	P≤0.01
<input type="checkbox"/> Grain: number of (grains/ear)			
Mean	27.0	27.7	28.3
Std. Deviation	1.7	1.5	0.6
Lsd/sig	2.5	ns	ns
<input type="checkbox"/> Head: length (mm)			
Mean	74.0	76.3	77.0
Std. Deviation	2.6	4.0	2.0
Lsd/sig	5.0	ns	ns

Prior Applications and Sales: Nil.

Description: Stewart Coventry, Roseworthy, SA 5371.

Details of Application

Application Number	2021/142
Variety Name	'Yeti'
Genus Species	<i>Hordeum vulgare</i>
Common Name	Barley
Accepted Date	23 Aug 2021
Applicant	Australian Grain Technologies Pty Ltd, Roseworthy, SA 5371
Qualified Person	Stewart Coventry

Details of Comparative Trial

Location	Roseworthy, South Australia
Descriptor	Barley TG 19/10
Period	May - November 2021
Conditions	A comparative trial was sown on the Roseworthy Campus of the University of Adelaide. In the previous year, the trial area carried a Lentil crop which was harvested for grain. Pre-seeding herbicides Roundup Ultra (1.5 l/ha), Voraxor (100mls) Hasten (1l/100l), Boxergold (2.5L) and Avadex (2L) were applied prior to seeding. The trial was sown on 5 June 2021 and 90kg MAP + 2.5% zinc fertiliser was sown with the seed. The season was generally favourable for growth of the crop and of weeds and disease. The trial was sprayed post emergence on 7th August with Paradigm (25g), Axial xtra (400mls), Lontrel (40mls), MCPA LVE 570 (500mls), Ally (5g) and BS1000 (200mls/100L) to control weeds. On the 16 August 20 units of liquid N fertiliser was applied. The trial was sprayed to control fungal pathogens on 18 August using ProSaro @ 300mls and BS1000 (200mls/100L), and again on the 14 September. The season finished early with limited spring rainfall. The trial was harvested on 22 November 2021.
Trial Design	Randomised block design of 3 blocks, consisting of 8 potential comparators and the candidates. Sown in 24 ranges of 2 plots wide, block 1 being in ranges 1 to 8 and so on. Plots were 1.25m wide (5 rows) and 3.2m long. There were approximately 1000 plants per plot. Qualitative characters were recorded for every replicate at the appropriate growth stage.
Measurements	Quantitative characters were measured on randomly sampled plants from each replicate. There were 10 measurements of plant height, and 30 spike measurements after maturity. Statistical analyses were completed using R software.
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: In 2010 the maternal parent (F1) was crossed with the paternal parent. The resulting population was selfed from the F1 to F3 generations and grown in the field at Charlick (SA) and Virginia (SA). In 2012 these lines entered agronomic, disease and quality testing network across Western Australia, South Australia, Victoria, New South Wales and Queensland. In 2017 a selection was identified which became AGTB0043. In 2019 AGTB0043 entered the National Variety Trials (NVT) across South Australia, Victoria, Western Australia, Queensland, and New South Wales. Seed purification began in 2018 and this seed was used as the source for commercial seed multiplication. Breeder: Paul Telfer, Stewart Coventry and Haydn Kuchel, Australian Grain Technologies Pty Ltd, Roseworthy, SA 5371.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Flag leaf	anthocyanin colouration of auricles	present
Grain	rachilla hair type	long
Ear	shape	tapering
Flag leaf	glaucosity of sheath	medium to strong or strong
Plant	Growth Habit	Semi-erect/semi-erect to intermediate/erect to semi-erect

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'COMPASS'	
'LEABROOK'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'LAPEROUSE'	'Grain: rachilla hair type	long	short	
'ARAPILES'	Plant: resistance to cereal cyst nematode	present	absent	
'CHARGER'	Grain: development of sterile spikelets	full	none	
'CHIEFTAIN'	Flag Leaf: intensity of anthocyanin colouration of auricles	weak to medium	very strong	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Yeti'	'COMPASS'	'LEABROOK'
<input type="checkbox"/> *Plant: growth habit	semi-erect	semi-erect	erect to semi-

			erect
<input type="checkbox"/> *Lowest leaves: hairiness of leaf sheaths	absent	absent	absent
<input type="checkbox"/> *Flag leaf: anthocyanin colouration of auricles	present	present	present
<input type="checkbox"/> *Flag leaf: intensity of anthocyanin colouration of auricles	medium to strong	medium to strong	medium
<input type="checkbox"/> Plant: frequency of plants with recurved flag leaves	low	low	low
<input type="checkbox"/> Flag leaf: glaucosity of sheath	medium to strong	medium to strong	strong
<input checked="" type="checkbox"/> *Time of: ear emergence	early	early to medium	early to medium
<input type="checkbox"/> *Awns: anthocyanin colouration of tips	present	present	present
<input type="checkbox"/> *Awns: intensity of anthocyanin colouration of tips	weak	weak to medium	weak to medium
<input checked="" type="checkbox"/> *Ear: glaucosity	strong	weak to medium	medium to strong
<input type="checkbox"/> Ear: attitude	semi-recurved	semi-recurved	horizontal to semi-recurved
<input checked="" type="checkbox"/> *Plant: length	medium	long	long
<input type="checkbox"/> *Ear: number of rows	two	two	two
<input type="checkbox"/> Ear: shape	tapering	tapering	tapering
<input type="checkbox"/> *Ear: density	medium	medium	medium
<input checked="" type="checkbox"/> Ear: length	short to medium	medium	medium
<input checked="" type="checkbox"/> *Awn: length	medium	long	very long
<input type="checkbox"/> Rachis: length of first segment	medium	medium	medium to long
<input type="checkbox"/> Rachis: curvature of first segment	absent or very weak	absent or very weak	very weak to weak
<input type="checkbox"/> *Sterile spikelet: attitude	divergent	parallel to weakly divergent	parallel to weakly divergent
<input type="checkbox"/> Median spikelet: length of glume and its awn relative to grain	equal	equal	equal
<input type="checkbox"/> *Grain: rachilla hair type	long	long	long
<input type="checkbox"/> *Grain: husk	present	present	present
<input type="checkbox"/> Grain: anthocyanin colouration of nerves of lemma	weak to medium	absent or very weak	weak to medium
<input type="checkbox"/> Grain: spiculation of inner lateral nerves of dorsal side of lemma	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Grain: hairiness of ventral furrow	absent	absent	absent
<input type="checkbox"/> Grain: disposition of lodicules	clasping	clasping	clasping
<input type="checkbox"/> Kernel: colour of aleurone layer	whitish	whitish	whitish
<input type="checkbox"/> *Season: type	spring type	spring type	spring type

Statistical Table

Organ/Plant Part: Context	'Yeti'	'COMPASS'	'LEABROOK'
----------------------------------	---------------	------------------	-------------------

<input checked="" type="checkbox"/> Time of: ear emergence (Julian days)			
Mean	254.7	258.0	257.7
Std. Deviation	1.2	0.0	0.6
Lsd/sig	1.8	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Plant: length (cm)			
Mean	89.7	98.3	99.9
Std. Deviation	4.6	8.1	5.6
Lsd/sig	7.8	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Awn: length (mm)			
Mean	86.3	100.3	107.0
Std. Deviation	4.7	3.2	3.6
Lsd/sig	7.5	P≤0.01	P≤0.01
<input type="checkbox"/> Grain: number of grains per ear			
Mean	27.3	27.7	28.3
Std. Deviation	1.2	1.5	0.6
Lsd/sig	2.5	ns	ns
<input checked="" type="checkbox"/> Head: length (mm)			
Mean	70.3	76.3	77.0
Std. Deviation	1.5	4.0	2.0
Lsd/sig	5.0	P≤0.01	P≤0.01

Prior Applications and Sales: Nil.

Description: Stewart Coventry, Roseworthy, SA 5371.

Details of Application

Application Number	2021/241
Variety Name	'RGT Orbiter'
Genus Species	<i>Hordeum vulgare</i>
Common Name	Spring barley
Synonym	'RGT-Orbiter'
Accepted Date	22 Nov 2021
Applicant	RAGT 2n, Rue Emile Singla, Site de Bourran, BP 3336, Aveyron FR 12033, France
Agent	Seedforce Australia Pty Ltd, Shepparton, VIC 3630
Qualified Person	Leslie Mitchell

Details of Comparative Trial

Overseas Testing Authority	GEVES (France)
Overseas Data Reference Number	DEE 4073484
Location	GEVES l'Anjouere, (49) - Magneraud (17), France
Descriptor	TG/19/11
Period	2015 - 2-16
Conditions	Field grown and managed as a commercial crop
Trial Design	RCB - minimum plants >2000 as per TG/19/11
Measurements	As per TG/19/11
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: 'RGT_ORBITER' is the result of a genealogical selection from a controlled cross made in 2012 between 'CHRONICLE' (patented) and 'RGT PLANET' (patented). Seed harvested from this first cross was sown and used for phenotype selection. Primary selection criteria were yield, disease resistance and malting quality. Subsequent propagation was by self-pollination. This selection process was carried out in both the northern and southern hemispheres. The final variety selection has now been grown over 5 generations and shown to be stable with no off types exhibited. Breeder: DUPONT Regis, RAGT 2n, Aveyron FR 12033, France.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	seasonal type	spring
Lowest leaves	hairiness of the leaf sheaths	absent
Ear	number of rows	two
Grain	rachilla hair type	short
Grain	hairiness of ventral furrow	absent

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Ellinor'	
'RGT Planet'	
'Pilote'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'RGT Planet'	grain: anthocyanin colouration of nerves of the lemma	medium	strong	
'Pilote'	ear: glaucosity	weak	strong	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'RGT Orbiter'	'Ellinor'
<input type="checkbox"/> Kernel: colour of aleurone layer	whitish	
<input type="checkbox"/> Plant: growth habit	intermediate	
<input checked="" type="checkbox"/> Flag leaf: anthocyanin coloration of auricles	strong	strong to very strong
<input checked="" type="checkbox"/> Flag leaf: attitude	horizontal	horizontal to semi-reflexed
<input type="checkbox"/> Ear: Time of emergence	medium	
<input type="checkbox"/> Flag leaf: glaucosity of sheath	strong	
<input type="checkbox"/> Awns: anthocyanin colouration of tips	weak to medium	
<input checked="" type="checkbox"/> Ear: glaucosity	weak to medium	medium
<input type="checkbox"/> Ear: attitude	semi-erect	
<input type="checkbox"/> Grain: anthocyanin coloration of nerves of lemma	medium	
<input type="checkbox"/> Plant: length	medium	
<input type="checkbox"/> Ear: number of rows	two	
<input type="checkbox"/> Ear: development of sterile spikelets	none or rudimentary	
<input type="checkbox"/> Ear: shape	parallel	
<input type="checkbox"/> Ear: density	sparse to medium	
<input type="checkbox"/> Ear: length	long	
<input type="checkbox"/> Awn: length	long	
<input checked="" type="checkbox"/> Rachis: length of first segment	medium to long	medium
<input type="checkbox"/> Rachis: curvature of first segment	weak	
<input type="checkbox"/> Median spikelet: length of glume and its awn relative to grain	equal	

Grain: spiculation of inner lateral nerves of dorsal side of lemma medium

Grain: hairiness of ventral furrow absent

Seasonal type: spring type

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2018	granted	'RGT ORBITER'
United Kingdom	2018	granted	'RGT ORBITER'
Canada	2022	applied	'RGT ORBITER'
Ukraine	2021	applied	'RGT ORBITER'
US	2021	applied	'RGT ORBITER'

First sold in United Kingdom in March 2018.

Description: Leslie Mitchell, SHEPPARTON, VIC 3630.

Details of Application

Application Number	2021/242
Variety Name	'RGT Asteroid'
Genus Species	<i>Hordeum vulgare</i>
Common Name	Spring barley
Synonym	'RGT-Asteroid'
Accepted Date	25 Nov 2021
Applicant	RAGT 2n, Rue Emile Singla, Site de Bourran, BP 3336, Aveyron FR 12033, France
Agent	Seedforce Australia Pty Ltd, Shepparton, VIC 3630
Qualified Person	Leslie Mitchell

Details of Comparative Trial

Overseas Testing Authority	GEVES (France)
Overseas Data Reference Number	DEE 4073483
Location	GEVES L Anjouere (49) - Le Magneraud (17), France
Descriptor	TG/19/11
Period	15/02/2015 - 15/07/2016
Conditions	Field grown following commercial agronomic practices
Trial Design	RCB with >2000 plants as per TG/19/11
Measurements	As per TG/19/11
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: 'RGT_ ASTEROID' is the result of a double haploid selection from a controlled cross made in 2011 between 'OVERTURE' (patented) and 'RGT CAMPANERA' (patented). Seed harvested from this first cross was sown and used for phenotype selection. Primary selection criteria were yield, disease resistance and malting quality. Subsequent propagation was by self-pollination. This selection process was carried out in both the northern and southern hemispheres. The final variety selection has now been grown over 5 generations and shown to be stable with no off types exhibited. Breeder: DUPONT Regis, RAGT 2n, Aveyron FR 12033, France.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	seasonal type	spring type
Ear	number of rows	two
Ear	shape	parallel
Grain	rachilla hair type	short
Grain	hairiness of the ventral furrow	absent

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Pilote'	

‘Overture’
‘RGT Campanera’

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
‘Overture’	ear: glaucosity	strong	medium	
‘RGT Campanera’	flag leaf: anthocyanin colouration of the auricles	strong	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘RGT Asteroid’	‘Pilote’
<input type="checkbox"/> Kernel: colour of aleurone layer	whitish	
<input type="checkbox"/> Plant: growth habit	intermediate	
<input type="checkbox"/> Lowest leaves: hairiness of leaf sheath	absent	
<input type="checkbox"/> Flag leaf: anthocyanin coloration of auricles	strong to very strong	
<input checked="" type="checkbox"/> Flag leaf: attitude	horizontal	semi-erect to horizontal
<input checked="" type="checkbox"/> Flag leaf: glaucosity of sheath	medium to strong	strong
<input type="checkbox"/> Awns: anthocyanin colouration of tips	medium to strong	
<input type="checkbox"/> Ear: glaucosity	strong	
<input checked="" type="checkbox"/> Ear: attitude	semi-erect	horizontal
<input type="checkbox"/> Plant: length	medium	
<input type="checkbox"/> Ear: number of rows	two	
<input type="checkbox"/> Ear: development of sterile spikelets	none or rudimentary	
<input type="checkbox"/> Ear: shape	parallel	
<input checked="" type="checkbox"/> Ear: density	medium	sparse to medium
<input type="checkbox"/> Ear: length	long	
<input type="checkbox"/> Awn: length	long	
<input checked="" type="checkbox"/> Rachis: length of first segment	medium	medium to long
<input type="checkbox"/> Rachis: curvature of first segment	weak	
<input type="checkbox"/> Median spikelet: length of glume and its awn relative to grain	equal	
<input type="checkbox"/> Grain: spiculation of inner lateral nerves of dorsal side of lemma	absent or very weak	
<input type="checkbox"/> Grain: hairiness of ventral furrow	absent	
<input type="checkbox"/> Seasonal type:	spring type	

Prior Applications and Sales:

Country	Year	Status	Name Applied
---------	------	--------	--------------

European Union	2017	granted	'RGT ASTEROID'
Canada	2022	applied	'RGT ASTEROID'
Ukraine	2021	applied	'RGT ASTEROID'
US	2021	applied	'RGT ASTEROID'
United Kingdom	2016	granted	'RGT ASTEROID'

First sold in Spain in Oct 2017.

Description: Leslie Mitchell, Shepparton, VIC 3630.

Details of Application

Application Number	2021/069
Variety Name	'F122'
Genus Species	<i>Vaccinium corymbosum</i>
Common Name	Blueberry
Accepted Date	02 Jun 2021
Applicant	The New Zealand Institute for Plant and Food Research Ltd. 120 Mt Albert road, Auckland, New Zealand
Agent	n/a
Qualified Person	Janice Turner

Details of Comparative Trial

Overseas Testing Authority	DGAV - DVS
Overseas Data Reference Number	2017/1875
Location	NECE-ESCAROUPIM
Descriptor	CPVO-TP/137/1
Period	2018-2021
Conditions	Grown under outdoor conditions
Trial Design	Plants of the candidate were observed alongside comparator plants and reference variety plants
Measurements	Observations taken from a minimum of 6 plants or plant parts taken off each of the six plants
RHS Chart - edition	n/a

Origin and Breeding

Open pollination: seed was collected from fruit of 'Sunshine Blue' in 1996 in Oregon, USA. The seed was then sent to Motueka, New Zealand and grown in the glasshouse. The seed was planted and grown on until it was selected in the 1999-2000 season. Replicated trials have been run at Ruakura and Motueka New Zealand as well as in Germany.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	vigour	strong
Plant	growth habit	semi-upright
Plant	fruiting type	one year old shoot only

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'ZF08-095'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Hortblue Petite'	Plant: vigour	strong	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'F122'	'ZF08-095'
<input type="checkbox"/> *Plant: vigour	strong	
<input type="checkbox"/> *Plant: growth habit	semi-upright	
<input type="checkbox"/> One-year-old shoot: colour	reddish yellow	green
<input type="checkbox"/> One-year-old shoot: length of internode	very short	
<input type="checkbox"/> *Leaf: length	very short	
<input type="checkbox"/> Leaf: width	very narrow to narrow	very narrow
<input checked="" type="checkbox"/> Leaf: ratio length/width	very small to small	medium
<input type="checkbox"/> *Leaf: shape	elliptic	
<input type="checkbox"/> Leaf: colour of upper side	green	
<input type="checkbox"/> *Leaf: intensity of green colour on upper side (varieties with green leaf colour only)	dark	
<input type="checkbox"/> *Leaf: margin	serrate	
<input type="checkbox"/> Flower bud: anthocyanin colouration	medium to strong	strong
<input type="checkbox"/> Inflorescence: length	very short to short	very short
<input type="checkbox"/> *Flower: size of corolla tube	very small to small	very small
<input checked="" type="checkbox"/> *Flower: anthocyanin colouration of corolla tube	strong to very strong	very weak to weak
<input checked="" type="checkbox"/> Flower: ridges on corolla tube	present	absent
<input type="checkbox"/> Fruit cluster: density	medium	
<input type="checkbox"/> *Unripe fruit: intensity of green colour	light	
<input type="checkbox"/> *Fruit: size	very small to small	very small
<input checked="" type="checkbox"/> *Fruit: shape in longitudinal section	round	elliptic
<input type="checkbox"/> Fruit: attitude of sepals	semi-erect	
<input type="checkbox"/> Fruit: type of sepals	incurving	
<input type="checkbox"/> Fruit: diameter of calyx basin	very small to small	small
<input type="checkbox"/> Fruit: depth of calyx basin	very shallow	
<input checked="" type="checkbox"/> *Fruit: intensity of bloom	medium	very weak to weak
<input type="checkbox"/> *Fruit: colour of skin	dark blue	
<input type="checkbox"/> Fruit: firmness	soft	
<input type="checkbox"/> *Fruit: sweetness	very low to low	
<input type="checkbox"/> *Fruit: acidity	medium	
<input type="checkbox"/> *Plant: fruiting type	on one-year-old shoots only	
<input checked="" type="checkbox"/> *Time of: vegetative bud burst	early	late
<input checked="" type="checkbox"/> *Time of: beginning of flowering on one-year-old shoot	early to medium	medium to late
<input type="checkbox"/> *Time of: beginning of fruit ripening on one-year-old shoot	early to medium	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2017	Granted	'F122'
New Zealand	2021	Applied	'F122'
Switzerland	2018	Granted	'F122'
UK	2022	Applied	'F122'

First sold in Switzerland in April 2017

Description: Janice Turner, New Zealand Institute of Plant and Food Research Ltd. Motueka, New Zealand.

Details of Application

Application Number	2022/067
Variety Name	‘Gongga’
Genus Species	<i>Brassica oleracea</i>
Common Name	Broccoli
Accepted Date	01 Jun 2022
Applicant	Syngenta Crop Protection AG, Basel 4058, Switzerland
Agent	Syngenta Australia Pty. Ltd, NSW 2113
Qualified Person	John Oates

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, Netherlands
Overseas Data Reference Number	KBR248
Location	Roelofarendsveen, Netherlands
Descriptor	TP/151/2 Rev. d.d. 15-03-2017
Period	2020-2021
Conditions	N/A
Trial Design	N/A
Measurements	As per technical guidelines
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: The commercial variety ‘GONGGA’ was obtained from a single cross between an advanced CMS line - internal code - ‘EK476’ and an inbred line - internal code - ‘BB073’. Breeding procedure on female line EK476: a cross was made between a CMS source line internal code as BRF03C13 and inbred line internal code as ‘01-11295-1’, followed by backcross using ‘01-11295-1’ as recurrent parent to get fixed new CMS line - internal code as ‘EK476’ through 6 breeding cycles. During the 6 cycles of selection, we focused on the recurrent parent trait selection - curd shape, curd colour, bead size and uniformity, curd firmness and plant trait. Breeding procedure on male line BB073: BB073 was obtained after 11 cycles of selection and fixation Cycle 1 to Cycle 9. A F1 hybrid was obtained from the cross between the variety ‘Lvxiang 90’ and an advanced line internal code as ‘093B’. A new line, internal code ‘[(Lvxiang 90/093B:4-1)//Lvxiang 90]:1:4-3-1-1-B-’ was obtained after 9 cycles of selection and fixation by backcross and self-pollination. During the first 8 cycles of selection, we focus on curd colour, bead size, bead size uniformity and curd firmness selection under cool conditions. The 9th cycle was used to get the right uniformity and stability for the new line. Cycle 10 to Cycle 11 A F1 hybrid was obtained from the cross between the line, internal code ‘[(Lvxiang 90/093B:4- 1)//Lvxiang 90]:1:4-3-1-1-B-’ and variety ‘SK3-084 RCF’. A new DH line, internal code - ‘BB073’ was obtained after selection and fixation by DH culture and test cross pollination. During the 10th cycle, we focus on the single plant trait selection- mainly on trait of curd colour, bead size and bead size uniformity, curd firmness and reliability, and obtain new S-allele type from ‘SK3-084 RCF’. The 11th cycle was used to test out the S-allele type of the new DH lines, at the same time make test. Breeder: Syngenta Crop Protection AG, Switzerland.

Choice of Comparators: Characteristics used for grouping varieties to identify the most

similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	number of stems	one
Head	colour	grey brown
Time	of harvest maturity	medium to late
Male sterility		present
Head	shape in longitudinal section	transverse broad elliptic

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Chronos'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Gongga'	'Chronos'
<input type="checkbox"/> *Plant: number of stems	one	
<input type="checkbox"/> *Plant: height	medium	
<input type="checkbox"/> *Leaf: attitude	semi-erect	
<input type="checkbox"/> *Leaf: length	long	
<input type="checkbox"/> Leaf: width	medium to broad	
<input type="checkbox"/> *Leaf: number of lobes	few to medium	
<input type="checkbox"/> *Leaf blade: colour	grey green	
<input type="checkbox"/> Leaf blade: intensity of colour	medium	
<input type="checkbox"/> Leaf blade: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf blade: undulation of margin	weak to medium	
<input type="checkbox"/> Leaf blade: dentation of margin	weak	
<input type="checkbox"/> Leaf blade: blistering	medium	
<input type="checkbox"/> Petiole: anthocyanin colouration	absent	
<input type="checkbox"/> Petiole: length	medium to long	
<input type="checkbox"/> Head: length of branching at base	short to medium	
<input type="checkbox"/> Head: size	medium	
<input type="checkbox"/> *Head: shape in longitudinal section	transverse broad elliptic	
<input type="checkbox"/> *Head: colour	grey green	
<input type="checkbox"/> Head: intensity of colour	medium to dark	
<input type="checkbox"/> Head: anthocyanin colouration	absent	
<input checked="" type="checkbox"/> Head: knobbling	fine	very fine to medium
<input type="checkbox"/> Head: texture	fine	
<input type="checkbox"/> Head: firmness	medium to firm	

<input type="checkbox"/>	Head: bracts	absent	
<input type="checkbox"/>	Plant: secondary heads	absent	
<input type="checkbox"/>	Flower: colour	yellow	
<input type="checkbox"/>	Flower: intensity of yellow colour	light to medium	
<input checked="" type="checkbox"/>	*Time of: harvest maturity	medium to late	medium
<input checked="" type="checkbox"/>	Time of: beginning of flowering	medium to late	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2020	granted	'Gongga'
Netherlands	2020	granted	'Gongga'
China	2018	pending	'Gongga'

First sold in China in September 2018.

Description: John Oates, Merimbula, NSW 2548.

Details of Application

Application Number	2020/276
Variety Name	'DG Torrens TT'
Genus Species	<i>Brassica napus</i>
Common Name	Canola
Synonym	DG1924TT
Accepted Date	17 Mar 2021
Applicant	Nutrient Ag Solutions Ltd, Docklands, Vic.
Agent	Kate Light, Horsham, Vic.
Qualified Person	Kate Light

Details of Comparative Trial

Location	Horsham Victoria
Descriptor	TG/36/6+corr. Rape Seed (<i>Brassica napus</i>)
Period	May 2021-December 2021
Conditions	Normal growing conditions.
Trial Design	Randomised complete block, 4 replications, 6 row x 7m plots with many hundreds of plants per plot. (Fourth replication was included as a backup only and was not required)
Measurements	Seedling and mature plant measures collected from 20 plants per replicates 1,2 and 3 giving a total of 60 observations per variety.

RHS Chart - edition**Origin and Breeding**

Controlled Pollination: ATR-Gem and a Nutrien Ag Solutions (NAS) breeding line were crossed in a greenhouse facility in Saskatoon Canada in 2015 and progressed to F2 seed in the greenhouse. 2016: XNB16-1400*02, F2 seed was trialled at a blackleg nursery in Wonwondah, Victoria and a single plant was selected based on disease resistance, flowering time, agronomic suitability and oil quality. 2017: XNB16-1400*02*019, F3 seed of the individual plant was trialled at a blackleg nursery in Wonwondah Victoria and selected based on disease resistance, flowering time, agronomic suitability and oil quality. 2018: XNB16-1400*02*019, F4 seed was entered into preliminary yield trials in multiple sites across Victoria, New South Wales and Western Australia where it was assessed for yield, agronomic suitability and oil quality and in disease nurseries at Lake Bolac and Wonwondah, Victoria where it was again assessed for disease resistance. XNB16-1400*02*019 was also entered in pure seed increase in a greenhouse in Horsham, Victoria. 2019: XNB16-1400*02*019, F5 was tested as DG1924TT in advanced yield trials in multiple sites across Victoria, New South Wales and Western Australia where it was assessed for yield, agronomic suitability and oil quality and in disease nurseries at Lake Bolac and Wonwondah, Victoria where it was assessed for disease resistance. DG1924TT was also entered into further seed increase in a greenhouse in Horsham, Victoria. 2020: DG1924TT was entered in NVT trials and breeders' seed production. 2021: DG1924TT will be entered in NVT trials and commercial seed production and will be released as 'DG Torrens TT' for commercial cultivation in 2022. Breeder: Dr Wayne Burton, Nutrien Ag Solutions Ltd, Horsham, Vic.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	herbicide tolerance	triazine Tolerant
Plant	flowering time	early flowering time

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'ATR Gem'	Female parent of the candidate variety, DG Torrens TT and an early flowering triazine tolerant variety
'ATR Bonito'	Early to medium flowering triazine tolerant variety
'ATR Stingray'	Early flowering triazine tolerant variety

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'ATR Wahoo'	Plant flowering time	early	medium	
'ATR Mako'	Plant flowering time	early	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	DG Torrens TT	ATR Bonito	ATR Gem	ATR Stingray
<input type="checkbox"/> *Seed: erucic acid	absent	absent	absent	absent
<input checked="" type="checkbox"/> Cotyledon: length	medium	medium	medium to long	very short
<input checked="" type="checkbox"/> Cotyledon: width	very narrow to narrow	broad to very broad	broad	narrow to medium
<input type="checkbox"/> *Leaf: green colour	medium	medium	medium	medium
<input type="checkbox"/> *Leaf: lobes	present	present	present	present
<input type="checkbox"/> *Leaf: number of lobes	many	medium to many	many	medium to many
<input type="checkbox"/> Leaf: length	long	long	long	very short to short
<input type="checkbox"/> Leaf: length of petiole (varieties with lobed leaves only)	long	long to very long	long	long
<input type="checkbox"/> *Time of flowering	early	early to medium	early	early
<input type="checkbox"/> *Flower: colour of petals	yellow	yellow	yellow	yellow
<input type="checkbox"/> Production of pollen	present	present	present	present
<input checked="" type="checkbox"/> *Plant: total length including side branches	long to very long	short to medium	medium	short
<input type="checkbox"/> Siliqua: length	very long	long to very long	very long	long
<input checked="" type="checkbox"/> Siliqua: length of beak	short to medium	short to medium	medium	very short
<input checked="" type="checkbox"/> Siliqua: length of peduncle	short to medium	short to	medium	very short

<input type="checkbox"/> Tendency to form inflorescences in year of sowing: for spring sown trials	strong	medium	strong	strong
<input type="checkbox"/> Tendency to form inflorescences in year of sowing: for late sown trials	strong	strong	strong	strong

Statistical Table

Organ/Plant Part: Context	'DG Torrens TT'	'ATR Bonito'	'ATR Gem'	'ATR Stingray'
<input checked="" type="checkbox"/> Plant: Cotyledon width (mm)				
Mean	14.97	19.80	18.71	16.91
Std. Deviation	1.32	1.21	1.50	1.33
Lsd/sig	0.90	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Plant: Cotyledon length (mm)				
Mean	8.08	8.12	8.82	5.84
Std. Deviation	0.76	0.91	0.69	0.55
Lsd/sig	0.50	ns	P≤0.01	P≤0.01
<input type="checkbox"/> Plant: Leaf length (mm)				
Mean	63.08	61.53	62.95	56.97
Std. Deviation	2.92	2.83	2.72	4.21
Lsd/sig	2.15	ns	ns	P≤0.01
<input type="checkbox"/> Plant: Petiole length (mm)				
Mean	104.75	112.18	100.95	103.95
Std. Deviation	4.77	5.46	6.03	7.14
Lsd/sig	3.84	P≤0.01	ns	ns
<input checked="" type="checkbox"/> Plant: Lobe #				
Mean	4.82	3.67	2.90	4.13
Std. Deviation	0.73	1.08	0.51	0.98
Lsd/sig	0.590	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Plant: Plant height (cm)				
Mean	110.50	89.63	91.25	85.50
Std. Deviation	4.91	4.99	4.77	3.89
Lsd/sig	2.885	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Siliqua: Peduncle length (mm)				
Mean	19.52	18.50	23.56	16.66
Std. Deviation	3.08	2.09	3.93	1.89
Lsd/sig	2.008	ns	P≤0.01	P≤0.01
<input type="checkbox"/> Siliqua: Pod length (mm)				
Mean	60.56	65.66	62.77	57.78
Std. Deviation	5.68	4.69	4.53	4.81
Lsd/sig	3.573	P≤0.01	ns	ns
<input checked="" type="checkbox"/> Siliqua: Beak length (mm)				
Mean	13.58	13.18	11.09	10.74
Std. Deviation	1.90	2.17	1.74	1.83
Lsd/sig	1.265	ns	P≤0.01	P≤0.01

Prior Applications and Sales:

Nil

Description: **Kate Light**, Nutrien Ag Solutions Ltd, Horsham, Vic.

Details of Application

Application Number	2019/046
Variety Name	'ALLYANCE'
Genus Species	<i>Daucus carota</i>
Common Name	Carrot
Accepted Date	17 May 2019
Applicant	Nunhems B.V., Napoleonsweg 152, Nunhem, 6068 AB, The Netherlands
Agent	Spruson & Ferguson, GPO Box 3898, Sydney, NSW
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	WRT527
Location	Naktuinbouw, ROELOFARENDVSVEEN, The Netherlands
Descriptor	TP/49/3
Period	2018-2020
Conditions	n/a
Trial Design	In accordance with TP/49/3
Measurements	In accordance with TP/49/3
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: Inbred lines were developed by selfing and evaluating for root and foliage quality. The first maintainer male was backcrossed several times to develop female 1 line. This female 1 line was crossed with Male 1 to develop Female 2. This Female 2 was crossed with Male 2 to obtain Nun 13098. Breeder: Robert Oostveen, Nunhems B. V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/PlantContext	State of Expression in Group of Varieties	
Part		
Leaf	length (including petiole)	medium to long
Root	length	medium
Root	width	medium
Root	shape in longitudinal section	narrow oblong
Root	tip (when fully developed)	blunt
Root	external colour	orange
Plant	proportion of male sterile plants	high
Plant	type of male sterility	petaloid anthers

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Dailyance'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Brilliance'	Root length	medium	long	
'Cadance'	Root ridging of surface	absent or very weak	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'ALLYANCE'	'Dailyance'
<input type="checkbox"/> Foliage: width of crown	medium	
<input type="checkbox"/> Leaf: attitude	erect to semi-erect	
<input type="checkbox"/> *Leaf: length	medium to long	
<input type="checkbox"/> *Leaf: division	medium	
<input checked="" type="checkbox"/> *Leaf: intensity of green colour	medium	medium to dark
<input type="checkbox"/> *Leaf: anthocyanin colouration of petiole	absent	
<input type="checkbox"/> *Root: length	medium	
<input type="checkbox"/> *Root: width	medium	
<input type="checkbox"/> *Root: ratio width/length	large	
<input type="checkbox"/> *Root: shape in longitudinal section	narrow oblong	
<input type="checkbox"/> *Root: shape of shoulder	rounded to conical	
<input type="checkbox"/> *Root: tip	blunt	
<input type="checkbox"/> *Root: external colour	orange	
<input type="checkbox"/> Root: intensity of external colour	medium	
<input type="checkbox"/> Root: anthocyanin colouration of skin of shoulder	absent	
<input type="checkbox"/> *Root: extent of green colour of skin of shoulder	very small to small	
<input checked="" type="checkbox"/> Root: ridging of surface	absent or very weak	very weak to weak
<input type="checkbox"/> *Root: diameter of core relative to total diameter	medium	
<input type="checkbox"/> *Root: colour of core	orange	
<input type="checkbox"/> Root: intensity of colour of core	medium	
<input type="checkbox"/> *Root: colour of cortex	orange	
<input type="checkbox"/> Root: intensity of colour of cortex	medium	
<input type="checkbox"/> Root: colour of core compared to colour of cortex	same	
<input type="checkbox"/> *Root: extent of green colouration of interior	very small to small	
<input type="checkbox"/> Root: protrusion above soil	very slight to slight	

<input type="checkbox"/> Root: time of development of rounded tip (varieties with blunt tip only)	early to medium
<input type="checkbox"/> *Root: time of colouration of tip in longitudinal section	early to medium
<input type="checkbox"/> Plant: height of primary umbel at time of its flowering	very short to short
<input type="checkbox"/> Plants: proportion of male sterile plants	high
<input type="checkbox"/> Plant: type of male sterility	petaloid anther

Prior Applications:

Country	Year	Status	Name Applied
EU	2018	Granted	'ALLYANCE'
Israel	2018	Granted	'ALLYANCE'
The Netherlands	2018	Granted	'ALLYANCE'
Ukraine	2019	Granted	'ALLYANCE'

Prior Sales: Nil

Description: Ean Blackwell, Spruson & Ferguson, Sydney, NSW

Details of Application

Application Number	2021/121
Variety Name	'INSULA'
Genus Species	<i>Cucumis sativus</i>
Common Name	Cucumber
Accepted Date	30 Jun 2021
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, 2678 KX, Netherlands
Agent	Spruson & Ferguson, Sydney, NSW
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	KMK1345
Location	Naktuinbouw, Roelofarendsveen, The Netherlands
Descriptor	TP/61/2 Rev.
Period	2019-2020
Trial Design	In accordance with TP/61/2 Rev.
Measurements	In accordance with TP/61/2 Rev.
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: 'Insula' was developed from a cross made between two doubled haploid (DH) lines. The female parent is derived from the inbreeding of a Rijk Zwaan hybrid, selection according to preferred traits followed by gynogenesis to make a pure DH-line. The male parent is a cross between two Rijk-Zwaan parental lines, one with a high level of resistance to pathogens, the other with dark green leaf. Selection was made to stack traits and followed by gynogenesis to make a pure DH-line. Breeder: Rijk Zwaan Cucumber Breeding Department, De Lier, 2678 KX, Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part Context	State of Expression in Group of Varieties
Fruit type	Dutch type
Cotyledon bitterness	absent
Plant sex expression	gynoecious
Ovary colour of vestiture	white
Plant parthenocarpy	present
Fruit length	long
Fruit ground colour of skin at market stage	green

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Tantalos'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘INSULA’	‘Tantalos’
<input type="checkbox"/> Cotyledon: bitterness	absent	
<input type="checkbox"/> Plant: growth type	indeterminate	
<input type="checkbox"/> Plant: total length of first 15 internodes	long	
<input type="checkbox"/> Leaf blade: attitude	drooping	
<input type="checkbox"/> Leaf blade: length	long	
<input type="checkbox"/> Leaf blade: ratio length of terminal lobe/length of blade	medium	
<input type="checkbox"/> Leaf blade: shape of apex of terminal lobe	right-angled	
<input type="checkbox"/> Leaf blade: intensity of green colour	dark	
<input type="checkbox"/> Leaf blade: blistering	strong	
<input type="checkbox"/> Leaf blade: undulation of margin	moderate	
<input type="checkbox"/> Leaf blade: dentation of margin	very weak	
<input type="checkbox"/> Time of: development of female flowers (80% of plants with at least one female flower)	medium to late	
<input type="checkbox"/> Plant: sex expression	gynoecious	
<input type="checkbox"/> Plant: number of female flowers per node	predominantly one or two	
<input type="checkbox"/> Ovary: colour of vestiture	white	
<input type="checkbox"/> Plant: parthenocarpy	present	
<input checked="" type="checkbox"/> Fruit: length	long	long to very long
<input type="checkbox"/> Fruit: diameter	medium	
<input type="checkbox"/> Fruit: ratio length/diameter	large	
<input type="checkbox"/> Fruit: core diameter in relation to diameter of fruit	medium	
<input type="checkbox"/> Fruit: shape in transverse section	round	
<input type="checkbox"/> Fruit: shape of stem end	necked	
<input checked="" type="checkbox"/> Fruit: length of neck	short to medium	short
<input type="checkbox"/> Fruit: shape of calyx end	obtuse	
<input type="checkbox"/> Fruit: ground colour of skin at market stage	green	
<input checked="" type="checkbox"/> Fruit: intensity of ground colour of skin (as for 25)	medium to dark	dark
<input type="checkbox"/> Fruit: ribs	absent or weak	
<input type="checkbox"/> Fruit: sutures	absent	
<input type="checkbox"/> Fruit: creasing	present	
<input type="checkbox"/> Fruit: degree of creasing	medium	
<input type="checkbox"/> Fruit: type of vestiture	prickles only	
<input type="checkbox"/> Fruit: density of vestiture	sparse	
<input type="checkbox"/> Fruit: colour of vestiture	white	
<input type="checkbox"/> Fruit: warts	absent	
<input type="checkbox"/> Fruit: length of stripe	absent or very short	

<input type="checkbox"/>	Fruit: dots	absent
<input type="checkbox"/>	Fruit: glaucosity	absent or very weak to weak
<input type="checkbox"/>	Fruit: length of peduncle	medium to long
<input type="checkbox"/>	Fruit: ground color of skin at physiological ripeness	yellow
<input type="checkbox"/>	Resistance to: <i>Cladosporium cucumerinum</i> (Ccu)	present
<input type="checkbox"/>	Resistance to: Cucumber Mosaic Virus (CMV)	moderately resistant
<input type="checkbox"/>	Resistance to: Powdery mildew (<i>Podosphaera xanthii</i>) (Px)	highly resistant
<input type="checkbox"/>	Resistance to: Corynespora blight and target leaf spot (<i>Corynespora cassiicola</i>) (Cca)	present
<input type="checkbox"/>	Resistance to: Cucumber Vein Yellowing Virus (CVYV)	present
<input type="checkbox"/>	Resistance to: Zucchini Yellow Mosaic Virus (ZYMV)	absent
<input type="checkbox"/>	Resistance to: Cucurbit Yellow Stunting Disorder Virus (CYSDV)	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2018	granted	'Insula'
European Union	2019	granted	'Insula'
Great Britain	2020	granted	'Insula'

First sold in: 5 May 2020 in Australia and Spain.

Description: Ean Blackwell, Sydney, NSW 2000.

Details of Application

Application Number	2021/157
Variety Name	“CHIKITO”
Genus Species	<i>Cucumis sativus</i>
Common Name	Cucumber
Accepted Date	01 Apr 2022
Applicant	Nunhems B.V., Nunhem 6083 AB, Netherlands
Agent	Spruson & Ferguson, NSW 2000
Qualified Person	John Oates

Details of Comparative Trial

Location	Eden farm Bundaburg QLD
Descriptor	UPOV TG/61/7 Rev.2 Corr
Period	Jan-April 2022
Conditions	Polythene green house, drip irrigation as required, plants trellised on hanging string
Trial Design	Randomised block design
Measurements	As per UPOV technical guidelines
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: The line eventually named 'Chikito' was developed from female (line HSI12869) and male (line HMF9011) parents, which are doubled haploids made from breeding populations in the gene pool. Breeder: Remzi Dogan, Nunhems B.V., Haelen, Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	sex expression	gynoecious
Ovary	colour of vestiture	white
Parthenocarpy		present
Fruit	length	very short - short
Fruit	ground colour of skin at market stage	green

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Loreno'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Senator'	Skin: intensity of ground colour of skin	dark	light	
'Tiberias'	leaf blade: intensity of green colour	medium	dark	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘CHIKITO’	‘Loreno’
<input type="checkbox"/> Plant: growth type	indeterminate	indeterminate
<input type="checkbox"/> Plant: total length of first 15 internodes	short	short
<input type="checkbox"/> Leaf blade: attitude	drooping	drooping
<input type="checkbox"/> Leaf blade: length	medium	medium
<input type="checkbox"/> Leaf blade: ratio length of terminal lobe/length of blade	medium to large	medium
<input type="checkbox"/> Leaf blade: shape of apex of terminal lobe	right-angled	right-angled
<input type="checkbox"/> Leaf blade: intensity of green colour	medium	medium
<input type="checkbox"/> Leaf blade: blistering	medium to strong	medium
<input type="checkbox"/> Leaf blade: undulation of margin	absent or weak	absent or weak
<input type="checkbox"/> Time of: development of female flowers (80% of plants with at least one female flower)	early to medium	early to medium
<input type="checkbox"/> Plant: sex expression	ynoecious	ynoecious
<input type="checkbox"/> Plant: number of female flowers per node	predominantly four or five	predominantly three or four
<input type="checkbox"/> Ovary: color of vestiture	white	white
<input type="checkbox"/> Plant: Parthenocarpy	present	present
<input checked="" type="checkbox"/> Fruit: length	very short to short	short to medium
<input type="checkbox"/> Fruit: Diameter	small to medium	small
<input checked="" type="checkbox"/> Fruit: ratio length/diameter	small	medium
<input type="checkbox"/> Fruit: core diameter in relation to diameter of fruit	small	small to medium
<input type="checkbox"/> Fruit: shape in transverse section	round to angular	round
<input type="checkbox"/> Fruit: shape of stem end	obtuse	obtuse
<input type="checkbox"/> Fruit: length of neck	very short	very short
<input type="checkbox"/> Fruit: shape of calyx end	rounded	rounded
<input type="checkbox"/> Fruit: ground color of skin at market stage	green	green
<input type="checkbox"/> Fruit: intensity of ground color of skin (as for 25)	medium to dark	dark
<input checked="" type="checkbox"/> Fruit: ribs	medium	absent or weak
<input type="checkbox"/> Fruit: sutures	present	present
<input type="checkbox"/> Fruit: creasing	present	present
<input type="checkbox"/> Fruit: degree of creasing	very weak to weak	very weak to weak
<input type="checkbox"/> Fruit: warts	present	present
<input type="checkbox"/> Fruit: size of warts	very small	very small
<input type="checkbox"/> Fruit: length of stripe	absent or very short	absent or very short
<input type="checkbox"/> Fruit: dots	absent	absent
<input type="checkbox"/> Fruit: glaucosity	absent or very weak	absent or very weak

<input type="checkbox"/>	Fruit: length of peduncle	very short	very short
<input type="checkbox"/>	Fruit: ground color of skin at physiological ripeness	green	green

Statistical Table

Organ/Plant Part: Context	'CHIKITO'	'Loreno'
<input checked="" type="checkbox"/> Fruit: length/width ratio		
Mean	3.56	3.92
Std. Deviation	0.20	0.29
Lsd/sig (ANOVAR)	n/a	P ≤ 0.01

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2019	granted	'CHIKITO'
European Union	2020	granted	'CHIKITO'

First sold in Spain in Aug 2020.

Description: John Oates, Merimbula, NSW 2548.

Details of Application

Application Number	2022/043
Variety Name	'SEDAL'
Genus Species	<i>Cucumis sativus</i>
Common Name	Cucumber
Accepted Date	19 Apr 2022
Applicant	Nunhems B.V., Nunhem, The Netherland
Agent	Spruson & Ferguson, Sydney, NSW
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, NL
Overseas Data Reference Number	KMK1408
Location	Naktuinbouw, ROELOFARENDSEVEEN, NL
Descriptor	TP/61/2 Rev.2
Period	2021
Conditions	
Trial Design	In accordance with TP/61/2 Rev.2
Measurements	In accordance with TP/61/2 Rev.2

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety arose from controlled cross pollination between the maternal and paternal parents. Three cycles of selection were performed based on fruit quality and resistance to pathogens. The parental lines were doubled haploid lines developed within Nunhems' long cucumber breeding program indoors. Breeder: Nunhems B.V., Nunhem, The Netherland.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	type	Dutch type
Cotyledon	bitterness	absent
Plant	sex expression	gynoecious
Ovary	colour of vestiture	white
Parthenocarpy		present
Fruit	length	long to very long
Fruit	ground colour of skin at market stage	green
Resistance to	<i>Cladosporium cucumerinum</i>	present
Resistance to	Cucumber Mosaic Virus (CMV)	highly resistant
Resistance to	powdery mildew (<i>Podosphaera xanthii</i>) (Px)	susceptible

Resistance to	Corynespora blight and target leaf spot (<i>Corynespora cassiicola</i>) (Cca)	present
Resistance to	Cucumber Vein Yellowing Virus (CVYV)	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Forami'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'SEDAL'	'Forami'
<input type="checkbox"/> Cotyledon: bitterness	absent	
<input type="checkbox"/> Plant: growth type	indeterminate	
<input type="checkbox"/> Plant: total length of first 15 internodes	long	
<input type="checkbox"/> Leaf blade: attitude	drooping	
<input type="checkbox"/> Leaf blade: length	long	
<input type="checkbox"/> Leaf blade: ratio length of terminal lobe/length of blade	medium	
<input type="checkbox"/> Leaf blade: shape of apex of terminal lobe	right-angled	
<input type="checkbox"/> Leaf blade: intensity of green color	dark	
<input checked="" type="checkbox"/> Leaf blade: blistering	medium	medium to strong
<input type="checkbox"/> Leaf blade: undulation of margin	absent or weak	
<input type="checkbox"/> Leaf blade: dentation of margin	very weak to week	
<input type="checkbox"/> Time of: development of female flowers (80% of plants with at least one female flower)	medium to late	
<input type="checkbox"/> Plant: sex expression	gynoecious	
<input type="checkbox"/> Plant: number of female flowers per node	predominantly one or two	
<input type="checkbox"/> Ovary: color of vestiture	white	
<input type="checkbox"/> Plant: parthenocarpy	present	
<input checked="" type="checkbox"/> Fruit: length	long to very long	long
<input type="checkbox"/> Fruit: diameter	small to medium	
<input type="checkbox"/> Fruit: ratio length/diameter	large to very large	
<input type="checkbox"/> Fruit: core diameter in relation to diameter of fruit	medium	
<input type="checkbox"/> Fruit: shape in transverse section	round	
<input type="checkbox"/> Fruit: shape of stem end	acute	
<input type="checkbox"/> Fruit: length of neck	medium	
<input type="checkbox"/> Fruit: shape of calyx end	rounded	
<input type="checkbox"/> Fruit: ground color of skin at market stage	green	
<input type="checkbox"/> Fruit: intensity of ground color of skin (as for 25)	dark	

<input type="checkbox"/> Fruit: ribs	absent or weak
<input type="checkbox"/> Fruit: sutures	absent
<input type="checkbox"/> Fruit: creasing	present
<input checked="" type="checkbox"/> Fruit: degree of creasing	medium to strong weak to medium
<input type="checkbox"/> Fruit: type of vestiture	prickles only
<input checked="" type="checkbox"/> Fruit: density of vestiture	very sparse to sparse sparse to medium
<input type="checkbox"/> Fruit: color of vestiture	white
<input type="checkbox"/> Fruit: warts	absent
<input type="checkbox"/> Fruit: length of stripe	absent or very short
<input type="checkbox"/> Fruit: dots	absent
<input type="checkbox"/> Fruit: glaucosity	absent or very weak to weak
<input type="checkbox"/> Fruit: length of peduncle	medium to long
<input type="checkbox"/> Fruit: ground color of skin at physiological ripeness	yellow
<input type="checkbox"/> Resistance to: <i>Cladosporium cucumerinum</i> (Ccu)	present
<input type="checkbox"/> Resistance to: Cucumber mosaic virus (CMV)	highly resistant
<input type="checkbox"/> Resistance to: Powdery mildew (<i>Podosphaera xanthii</i>) (Px)	susceptible
<input type="checkbox"/> Resistance to: <i>Corynespora</i> blight and target leaf spot (<i>Corynespora cassicola</i>) (Cca)	present
<input type="checkbox"/> Resistance to: Cucumber vein yellowing virus (CVYV)	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
CPVO	2020	Granted	'SEDAL'
The Netherlands	2020	Granted	'SEDAL'

First sold in Spain in September 2020.

Description: Ean Blackwell, Sydney NSW 2000

Details of Application

Application Number	2021/063
Variety Name	'PBA Taylor'
Genus Species	<i>Pisum sativum</i>
Common Name	Field Pea
Accepted Date	11 May 2021
Applicant	Agriculture Victoria Services Pty Ltd, Bundoora, VIC. Grains Research and Development Corporation, Barton, ACT.
Agent	n/a
Qualified Person	Babu Pandey

Details of Comparative Trial

Location	Horsham, VIC
Descriptor	Pea (<i>Pisum sativum</i>) TG/7/10 Rev.
Period	June to December 2021
Conditions	Field conditions, rainfed
Trial Design	Randomized complete block design, four replications
Measurements	Stem length, number of nodes to first flower, stipule length, stipule width, pod length, pod width, time to flowering
RHS Chart – edition	S

Origin and Breeding

Controlled pollination: 'PBA Taylor' is a selection from a population derived from a cross between two breeding lines: 02-016-9 (seed parent) and 01-284-2 (pollen parent). The cross was made at Department of Jobs, Precincts and Regions (DJPR), Horsham (Victoria) in 2006 winter in a glasshouse. F1 hybrid seed was grown in 2006/7 summer to advance generation and multiply seed. The F2 seeds were harvested in bulk and the population was screened for resistance to two viruses: pea seed borne mosaic virus (PSbMV) and bean leaf roll virus (BLRV) in 2008. F2 derived plants resistant to the viruses were harvested separately and grown in an observation nursery for two years (2009 and 2010). The selected progenies were evaluated in multi-location yield trials from 2011. The best progeny was renamed in 2014 as OZP1408. OZP1408 was nominated for nationwide yield trialling called national variety trials (NVT) in 2015. It has been evaluated in NVT and stage 3 Pulse Breeding Australia (PBA) trials for at least of five years. Production of pure seed commenced in 2016 by selecting 200 single plants and growing them as separate rows in the following year. PBA Taylor has similar plant type as Kaspas: semi-leafless, semidwarf plant, non-shattering pods, and spherical seeds. Propagation: seed. Breeders: Babu Pandey and Garry Rosewarne, DJPR, Horsham, VIC.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Seed	type	spherical seeds

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'PBA Wharton'	
'Kaspas'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'PBA Taylor'	'Kaspas'	'PBA Wharton'
<input type="checkbox"/> *Plant: anthocyanin colouration	present	present	present
<input type="checkbox"/> *Stem: fasciation	absent	absent	absent
<input type="checkbox"/> *Foliage: colour	green	green	green
<input type="checkbox"/> *Leaf: leaflets	absent	absent	absent
<input type="checkbox"/> *Stipule: flecking	present	present	present
<input checked="" type="checkbox"/> Stipule: density of flecking	sparse	medium	medium
<input type="checkbox"/> *Plant: maximum number of flowers per node (varieties with stem fasciation absent)	two	two	two
<input type="checkbox"/> *Flower: colour of wing (varieties with plant anthocyanin coloration present only)	pink	pink	pink
<input checked="" type="checkbox"/> *Flower: shape of base of standard	moderately arched	level	level
<input type="checkbox"/> *Pod: parchment	absent or partial	absent or partial	absent or partial
<input type="checkbox"/> *Pod: thickened wall (excluding varieties with pod parchment)	absent	absent	absent
<input type="checkbox"/> *Pod: shape of distal part (varieties with Pod: thickened wall absent only)	pointed	pointed	pointed
<input type="checkbox"/> *Pod: curvature	medium	weak	medium
<input type="checkbox"/> *Pod: colour	green	green	green
<input type="checkbox"/> *Pod: suture strings (excluding varieties with pod parchment)	present	present	present
<input type="checkbox"/> *Pod: number of ovules	medium	medium	medium
<input type="checkbox"/> *Immature seed: intensity of green colour	medium	medium	medium
<input type="checkbox"/> *Seed: type of starch grains	simple	simple	simple
<input type="checkbox"/> *Seed: wrinkling of cotyledon (varieties with seed shape: cylindrical; and type of starch grain: simple only)	absent	absent	absent
<input type="checkbox"/> *Seed: colour of cotyledon	yellow	yellow	yellow

<input type="checkbox"/> *Seed: marbling of testa (varieties with plant anthocyanin coloration present only)	absent	absent	absent
<input type="checkbox"/> *Seed: violet or pink spots on testa (varieties with plant anthocyanin coloration present only)	absent	absent	absent
<input type="checkbox"/> *Seed: hilum colour	same color as testa	same colour as testa	same colour as testa
<input type="checkbox"/> *Seed: weight	medium	medium	medium

Statistical Table

Organ/Plant Part: Context	'PBA Taylor'	'Kaspa'	'PBA Wharton'
<input type="checkbox"/> Stem: length (cm)			
Mean	94.20	88.30	95.40
Std. Deviation	9.30	4.10	8.50
Lsd/sig	17.6	17.6	17.6
<input type="checkbox"/> Stem: number of nodes up to			
Mean	18.30	19.50	18.30
Std. Deviation	1.20	2.10	1.30
Lsd/sig	3.7	3.7	3.7
<input type="checkbox"/> Stipule: length (cm)			
Mean	7.90	7.70	7.90
Std. Deviation	0.30	0.20	0.70
Lsd/sig	1.0	1.0	1.0
<input type="checkbox"/> Stipule: width (cm)			
Mean	4.40	4.20	4.00
Std. Deviation	0.20	0.60	0.60
Lsd/sig	0.98	0.98	0.98
<input checked="" type="checkbox"/> Pod: length (cm)			
Mean	7.50	8.00	8.70
Std. Deviation	0.30	0.50	0.40
Lsd/sig	1.0	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Pod: width (cm)			
Mean	1.20	1.30	1.60
Std. Deviation	0.01	0.10	0.10
Lsd/sig	0.2	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Flower: time of flowering (days)			
Mean	111.00	114.00	107.00
Std. Deviation	0.80	0.80	0.80
Lsd/sig	2.0	P≤0.01	P≤0.01

Prior Applications and Sales: Nil

Description: Babu Ram Pandey, DEDJTR-Horsham, VIC.

Details of Application

Application Number	2017/115
Variety Name	‘Sugrafortyeight’
Genus Species	<i>Vitis vinifera</i>
Common Name	Grape vine
Synonym	SUGRA48
Accepted Date	09 Jun 2017
Applicant	Sun World International LLC, Bakersfield, California, USA
Agent	Corrs Chambers Westgarth Lawyers, Vic 3001
Qualified Person	Karen Connolly

Details of Comparative Trial

Overseas Testing Authority	USPTO
Overseas Data Reference Number	US PP27,791
Location	Newton Avenue, Irymple, VIC, Australia and as per USPTO data
Descriptor	UPOV TG/50/9
Period	
Conditions	Vines were managed by commercial growers and received full pest and disease control, irrigation, nutrition and pruning programs. There were no signs of any abnormalities in the vines during the evaluation period.
Trial Design	16 Vines each of the Candidate and Comparator were planted in a variety evaluation block.
Measurements	Measurements were taken in metric system following UPOV test guidelines
RHS Chart - edition	1986 Reprint

Origin and Breeding

Controlled pollination: The new variety was first selected as breeder number ‘GR384B’ by Terry A. Bacon in Wasco, Kern County, California in August 2013. The variety was originated by controlled hybridization. The seed parent is the varietal selection ‘Sugrathirtyfive’ (PP20491) and the pollen parent is the varietal selection ‘Sugrathirtyfour’ (PP19750). The parent varieties were first crossed in May 2011. The date of first sowing was March 2012, and the date of first flowering was May 2013. Breeder: Terry A. Bacon, Bakersfield, California, USA

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Mature leaf	number of lobes	5
Flower	sexual organs	fully developed stamens and fully developed gynoecium
Berry	shape	ellipsoid group
Berry	formation of seeds	rudimentary
Berry	anthocyanin colouration of flesh	absent of very weak
Berry	colour of skin (without bloom)	dark red-violet to black

Most Similar Varieties of Common Knowledge identified (VCK)

Name **Comments**

'Autumn Royal'

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Sugrathirtyfive'	berry	colour	dark red-violet to black	green	Seed parent
'Sugrathirtyfive'	fruit	time of maturity	early to mid february 2022	late February - March	Seed parent
'Sugrathirtyfive'	berry	flavour	none	mild muscat	Seed parent
'Sugrathirtyfour'	fruit	time of maturity	early to mid february 2022	late March- early April	Pollen parent
'Sugrathirteen'	fruit	time of maturity	early to mid february 2022	late January- early February	
'IFG Sixteen'	berry	size	large	small	
'IFG Seventeen'	berry	size	large	small	
'IFG Seventeen'	young leaf	colour of upper side of blade	green	copper red	
'Blagratwo'	berry	colour	dark red-violet to black	blue-black	
'Blagratwo'	mature leaf	shape of blade	pentagonal	circular	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Sugrafortyeight'	'Autumn Royal'
<input checked="" type="checkbox"/> *Time of: bud burst	early to medium	medium to late
<input type="checkbox"/> *Young shoot: openness of tip	wide open	half open
<input type="checkbox"/> *Young shoot: prostrate hairs on tip	sparse	absent or very sparse
<input type="checkbox"/> *Young shoot: anthocyanin colouration of prostrate hairs on tip	absent or very weak	very weak to weak
<input type="checkbox"/> Young shoot: erect hairs on tip	absent or very sparse	absent or very sparse
<input checked="" type="checkbox"/> *Young leaf: colour of upper side of blade	green	dark copper red
<input type="checkbox"/> *Young leaf: prostrate hairs between main veins on lower side of blade	absent or very sparse	absent or very sparse
<input type="checkbox"/> Young leaf: erect hairs on main veins on lower side of blade	absent or very sparse	absent or very sparse
<input type="checkbox"/> Shoot: attitude (before tying)	semi-drooping	semi-erect
<input type="checkbox"/> Shoot: colour of dorsal side of internodes	red	green and red
<input type="checkbox"/> *Shoot: colour of ventral side of internodes	green and red	green and red
<input type="checkbox"/> Shoot: colour of dorsal side of nodes	green and red	green and red
<input type="checkbox"/> Shoot: colour of ventral side of nodes	green and red	green and red

<input type="checkbox"/> Shoot: erect hairs on internodes	absent or very sparse	absent or very sparse
<input type="checkbox"/> Shoot: length of tendrils	medium	medium to long
<input type="checkbox"/> *Flower: sexual organs	fully developed stamens and fully developed gynoecium	fully developed stamens and fully developed gynoecium
<input type="checkbox"/> *Mature leaf: size of blade	medium to large	medium
<input type="checkbox"/> *Mature leaf: shape of blade	pentagonal	pentagonal
<input type="checkbox"/> Mature leaf: blistering of upper side of blade	absent or very weak	absent or very weak
<input type="checkbox"/> *Mature leaf: number of lobes	five	five
<input type="checkbox"/> Mature leaf: depth of upper lateral sinuses	medium	shallow to medium
<input type="checkbox"/> Mature leaf: arrangement of lobes of upper lateral sinuses (varieties with lobed leaves only)	slightly overlapped	slightly overlapped
<input type="checkbox"/> *Mature leaf: arrangement of lobes of petiole sinus	half open	wide open
<input type="checkbox"/> *Mature leaf: length of teeth	medium	medium
<input type="checkbox"/> *Mature leaf: ratio length/width of teeth	very small	small
<input type="checkbox"/> *Mature leaf: shape of teeth	mixture of both sides straight and both sides convex	mixture of both sides straight and both sides convex
<input type="checkbox"/> *Mature leaf: proportion of main veins on upper side of blade with anthocyanin colouration	absent or very low	absent or very low
<input type="checkbox"/> Mature leaf: prostrate hairs between main veins on lower side of blade	absent or very sparse	absent or very sparse
<input type="checkbox"/> *Mature leaf: erect hairs on main veins on lower side of blade	absent or very sparse	absent or very sparse
<input type="checkbox"/> Mature leaf: length of petiole compared to length of middle vein	equal	moderately shorter
<input type="checkbox"/> *Time of: beginning of berry ripening	medium	medium to late

<input type="checkbox"/> *Bunch: size (peduncle excluded)	large	large
<input type="checkbox"/> *Bunch: density	medium	medium
<input type="checkbox"/> Bunch: length of peduncle of primary bunch	medium	medium to long
<input checked="" type="checkbox"/> *Berry: size	large	medium
<input checked="" type="checkbox"/> *Berry: shape	broad ellipsoid	narrow ellipsoid
<input type="checkbox"/> Berry: ease of detachment from pedicel	moderately easy	moderately easy
<input type="checkbox"/> Berry: thickness of skin	medium	medium
<input type="checkbox"/> *Berry: anthocyanin colouration of flesh	absent or very weak	absent or very weak
<input type="checkbox"/> Berry: firmness of flesh	very firm	moderately firm
<input checked="" type="checkbox"/> *Berry: particular flavour	none	herbaceous
<input type="checkbox"/> *Berry: formation of seeds	rudimentary	rudimentary
<input type="checkbox"/> Woody shoot: main colour	orange brown	reddish brown

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Sugrafortyeight'	'Autumn Royal'
<input type="checkbox"/> Berry: colour of skin (without bloom)	dark red violet- black	dark red violet- black

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2015	granted	'Sugrafortyeight'
South Africa	2016	pending	'Sugrafortyeight'

No prior sale.

Description: Karen Connolly, Mildura, Vic., Australia

Details of Application

Application Number	2017/188
Variety Name	'ARRATHIRTYTWO'
Genus Species	<i>Vitis vinifera</i>
Common Name	Grape vine
Accepted Date	17 Jul 2017
Applicant	ARD LLC (Agricultural Research & Development Limited Liability Company), Edison, California, USA
Agent	Gilad Sadan, Caulfield Junction, Vic 3161
Qualified Person	Ian Paananen

Details of Comparative Trial

Overseas Testing Authority	C.R.E.A-VE, Conegliano TV, Italy
Overseas Data Reference Number	2016/1198
Location	C.R.E.A-VE, Conegliano TV, Italy
Descriptor	CPVO-TP/050/2 Final
Period	2017-2020
Conditions	according to CPVO-TP/050/2
Trial Design	as per CPVO test report 2016/1198
Measurements	as per CPVO test report 2016/1198
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: seed parent 'BAR1' with pollen parent '35-22+4' in 2008. The seed parent is characterised by an 18-22mm berry diameter, approximately 32 bunches per vine and medium bunch density. The pollen parent is characterised by an 18-mm berry diameter, approximately 32 bunches per vine and medium ease of berry detachment. Selection criteria: resistance to cold, drought and heat; desirable handling, shipping and eating qualities. Propagation: vegetative by grafting. Breeder: Shachar Karniel, ARD LLC, Edison, California, USA.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Young shoot	openness of tip	wide open
Shoot	colour of dorsal side of nodes	green and red
Mature leaf	shape of blade	wedge-shaped
Mature leaf	shape of teeth	mixture of both sides straight and both sides convex
Bunch	density	medium
Berry	shape	narrow ellipsoid
Berry	ease of detachment from pedicel	moderately easy
Berry	thickness of skin	thick
Berry	formation of seeds	none

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Ifg104253'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Summer Royal'	Plant	bunches per vine	many to very many	'Summer Royal' also has thicker skin and a narrower cap stem width compared to candidate

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'ARRATHIRTYTWO'	'IFG TWO' (Ifg104253)
<input type="checkbox"/> *Time of: bud burst		early
<input type="checkbox"/> *Young shoot: openness of tip		wide open
<input type="checkbox"/> *Young shoot: prostrate hairs on tip		absent or very sparse
<input type="checkbox"/> *Young shoot: anthocyanin colouration of prostrate hairs on tip		absent or very weak
<input type="checkbox"/> Young shoot: erect hairs on tip		absent or very sparse
<input type="checkbox"/> *Young leaf: colour of upper side of blade		green with anthocyanin spots
<input type="checkbox"/> *Young leaf: prostrate hairs between main veins on lower side of blade		absent or very sparse
<input type="checkbox"/> Young leaf: erect hairs on main veins on lower side of blade		absent or very sparse
<input type="checkbox"/> Shoot: attitude (before tying)		semi-erect
<input type="checkbox"/> Shoot: colour of dorsal side of internodes		green and red
<input type="checkbox"/> *Shoot: colour of ventral side of internodes		green
<input type="checkbox"/> Shoot: colour of dorsal side of nodes		green and red
<input type="checkbox"/> Shoot: colour of ventral side of nodes		green
<input type="checkbox"/> Shoot: erect hairs on internodes		absent or very sparse
<input type="checkbox"/> Shoot: length of tendrils		medium
<input type="checkbox"/> *Flower: sexual organs		fully developed stamens and fully developed gynoecium
<input type="checkbox"/> *Mature leaf: size of blade		large
<input type="checkbox"/> *Mature leaf: shape of blade		wedge-shaped
<input type="checkbox"/> Mature leaf: blistering of upper side of blade		absent or very weak
<input type="checkbox"/> *Mature leaf: number of lobes		five

<input type="checkbox"/>	Mature leaf: depth of upper lateral sinuses	medium	
<input type="checkbox"/>	Mature leaf: arrangement of lobes of upper lateral sinuses (varieties with lobed leaves only)	slightly overlapped	
<input checked="" type="checkbox"/>	*Mature leaf: arrangement of lobes of petiole sinus	wide open	slightly open
<input type="checkbox"/>	*Mature leaf: length of teeth	long	
<input type="checkbox"/>	*Mature leaf: ratio length/width of teeth	medium	
<input type="checkbox"/>	*Mature leaf: shape of teeth	mixture of both sides straight and both sides convex	
<input type="checkbox"/>	*Mature leaf: proportion of main veins on upper side of blade with anthocyanin colouration	low	
<input type="checkbox"/>	Mature leaf: prostrate hairs between main veins on lower side of blade	absent or very sparse	
<input type="checkbox"/>	*Mature leaf: erect hairs on main veins on lower side of blade	absent or very sparse	
<input type="checkbox"/>	Mature leaf: length of petiole compared to length of middle vein	equal	
<input type="checkbox"/>	*Time of: beginning of berry ripening	early	
<input type="checkbox"/>	*Bunch: size (peduncle excluded)	very large	
<input type="checkbox"/>	*Bunch: density	medium	
<input type="checkbox"/>	Bunch: length of peduncle of primary bunch	medium	
<input type="checkbox"/>	*Berry: size	very large	
<input type="checkbox"/>	*Berry: shape	narrow ellipsoid	
<input checked="" type="checkbox"/>	*Berry: colour of skin (without bloom)	blue black	yellow
<input type="checkbox"/>	Berry: ease of detachment from pedicel	moderately easy	
<input type="checkbox"/>	Berry: thickness of skin	thick	
<input type="checkbox"/>	*Berry: anthocyanin colouration of flesh	weak	
<input type="checkbox"/>	Berry: firmness of flesh	moderately firm	
<input type="checkbox"/>	*Berry: particular flavour	none	
<input checked="" type="checkbox"/>	*Berry: formation of seeds	none	rudimentary
<input type="checkbox"/>	Woody shoot: main colour	dark brown	

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2015	granted	'ARRATHIRTYTWO'

EU	2016	pending	‘ARRATHIRTYTWO’
Brazil	2016	pranted	‘ARRATHIRTYTWO’

No prior sale.

Description: Ian Paananen, Crop & Nursery Services

Details of Application

Application Number	2017/056
Variety Name	'Itumfive'
Genus Species	<i>Vitis vinifera</i>
Common Name	Grape vine
Synonym	
Accepted Date	31 Jul 2017
Applicant	Investigación y Tecnología de Uva de Mesa S.L., Murcia, Spain
Agent	Table Grape Variety Development Pty Ltd, Euston, NSW 2737
Qualified Person	Alison MacGregor

Details of Comparative Trial

Overseas Testing Authority	USPTO
Overseas Data Reference Number	US PP33,356
Location	Euston, NSW
Descriptor	Grapevine (new) TG/50/9
Period	2018 - 2020
Conditions	The candidate variety was planted in a comparator trial at a commercial table grape vineyard at Euston in south western New South Wales. Vine nutrition, pests, diseases, weeds, pruning and irrigation were all managed in accordance with the rest of the commercial vineyard. The candidate and comparator varieties were all grafted to Paulson rootstock. Plant measurements were completed in February 2020.
Trial Design	The candidate and two comparator varieties were planted in a randomised block design with five replicates of each variety plot totalling fifteen vines of each variety.
Measurements	Observations of the candidate and comparators were compared at bud burst and subsequently on new young shoots, young leaves, mature leaves, berries, bunches and canes.
RHS Chart - edition	RHS colour chart fifth edition reprinted 2007.

Origin and Breeding

Controlled pollination: 'Itumfive' cultivar resulted from a controlled hybridization between 'Itum 91-89-56' (seed parent) and 'Princess' (pollen parent) in 2003 at the ITUM vineyard at the Instituto Madrileño de Investigación y Desarrollo Rural, Agrario y Alimentario (IMIDRA), in Murcia, Spain. Plants were produced from the maternal parent using embryo rescue procedures. Selections were made after screening for molecular markers associated with seedlessness and quality of fruit in post-harvest storage. Breeder: Manuel Tornell, Juan Carreño, Investigación y Tecnología de Uva de Mesa S.L., Murcia, Spain

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Berry	colour	green or yellow green
Berry	formation of seeds	none or rudimentary
Mature leaf	number of lobes	five
Berry	size	naturally large
Berry	anthocyanin colouration of flesh	absent or very weak

Berry	particular flavour	none
-------	--------------------	------

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Sheegene 4' (Luisco)	Large, seedless white grape maturing late season
'IFG 11' (Sugar Crisp)	Large, seedless white grape maturing late season
'Sugra35' (Autumn Crisp)	Large, seedless white grape maturing mid to late season
'Sheegene 17' (Great Green Seedless)	Large, seedless white grape maturing mid to late season

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments	
'Itumsix'	Berry	time of maturity to harvest	late season	mid to late season	Itumsix is an earlier maturing grape variety than the candidate
'Blanc Seedless'	Berry	time of maturity to harvest	late season	early to mid season	Blanc Seedless variety matures for harvest much earlier than the candidate
'Thompson Seedless'	Berry	size	naturally large	naturally small to medium size	Thompson seedless grapes are naturally smaller in size than the candidate and mature much earlier
'Autumn King'	Berry	Shape	Broad ellipsoid	Cylindrical or ovoid	
'Autumn King'	Berry	Time of maturity to harvest	Late season	Very late season	Autumn King matures for harvest 4

weeks later
than the
candidate.

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Itumfive'	'Sugra35' (Autumn Crisp')	'Sheegene 17' (Great Green Seedless)	'Sheegene 4' (Luisco)	'IFG 11' (Sugar Crisp)
<input type="checkbox"/> *Time of: bud burst	medium	medium	early to medium	medium to late	medium to late
<input type="checkbox"/> *Young shoot: openness of tip	wide open				
<input type="checkbox"/> *Young shoot: prostrate hairs on tip	very sparse to sparse	absent or very sparse	very sparse to sparse	sparse	medium
<input type="checkbox"/> *Young shoot: anthocyanin colouration of prostrate hairs on tip	absent or very weak	absent or very weak	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> Young shoot: erect hairs on tip	absent or very sparse	absent or very sparse	absent or very sparse	absent or very sparse	absent or very sparse
<input checked="" type="checkbox"/> *Young leaf: colour of upper side of blade	light copper red	green with anthocyanin spots	green with anthocyanin spots	light copper red	green
<input type="checkbox"/> *Young leaf: prostrate hairs between main veins on lower side of blade	absent or very sparse	absent or very sparse	absent or very sparse	absent or very sparse	absent or very sparse
<input type="checkbox"/> Young leaf: erect hairs on main veins on lower side of blade	absent or very sparse	very sparse to sparse	very sparse to sparse	absent or very sparse	very sparse to sparse
<input type="checkbox"/> Shoot: attitude (before tying)	semi-erect	semi-erect	semi-erect	semi-erect	semi-erect
<input type="checkbox"/> *Flower: sexual organs	fully developed stamens and fully developed gynoecium	fully developed stamens and fully developed gynoecium	fully developed stamens and fully developed gynoecium	fully developed stamens and fully developed gynoecium	fully developed stamens and fully developed gynoecium
<input checked="" type="checkbox"/> *Mature leaf: size of blade	small	medium	small to medium	large	small to medium
<input type="checkbox"/> *Mature leaf: shape of blade	circular	circular	circular	circular	circular
<input type="checkbox"/> Mature leaf: blistering of upper side of blade	weak to medium				
<input type="checkbox"/> *Mature leaf: number of lobes	five	five	five	five	five
<input checked="" type="checkbox"/> Mature leaf: depth of upper lateral sinuses	medium	shallow	medium to deep	deep	medium to deep

<input checked="" type="checkbox"/> Mature leaf: arrangement of lobes of upper lateral sinuses (varieties with lobed leaves only)	open to closed	slightly overlapped	closed or slightly overlapped	slightly overlapped	closed or slightly overlapped
<input type="checkbox"/> *Mature leaf: arrangement of lobes of petiole sinus	half open	half open	slightly open	wide open	half open
<input type="checkbox"/> *Mature leaf: length of teeth	short	short to medium	short to medium	medium	short to medium
<input type="checkbox"/> *Mature leaf: ratio length/width of teeth	medium	medium to large	medium	medium	medium to large
<input type="checkbox"/> *Mature leaf: shape of teeth	both sides straight	both sides convex	mixture of both sides straight and both sides convex	both sides convex	mixture of both sides straight and both sides convex
<input type="checkbox"/> *Mature leaf: proportion of main veins on upper side of blade with anthocyanin colouration	absent or very low	absent or very low	absent or low	absent or very low	absent or very low
<input type="checkbox"/> Mature leaf: prostrate hairs between main veins on lower side of blade	very sparse to sparse	very sparse to sparse	absent or very sparse	very sparse to sparse	absent or very sparse
<input type="checkbox"/> *Mature leaf: erect hairs on main veins on lower side of blade	absent or very sparse	absent or very sparse	absent or sparse	absent or very sparse	absent or very sparse
<input checked="" type="checkbox"/> Mature leaf: length of petiole compared to length of middle vein	moderately shorter	much shorter	moderately shorter	equal	much shorter
<input checked="" type="checkbox"/> *Time of: beginning of berry ripening	late	medium	medium	medium to late	medium to late
<input type="checkbox"/> *Bunch: size (peduncle excluded)	medium	medium to large	medium	large	large
<input type="checkbox"/> *Bunch: density	lax	lax to medium	lax	medium	lax to medium
<input type="checkbox"/> Bunch: length of peduncle of primary bunch	short to medium	medium	medium to long	medium to long	medium

<input type="checkbox"/> *Berry: size	medium to large	large to very large	medium to large	large to very large	large
<input type="checkbox"/> *Berry: shape	broad ellipsoid	globose	broad ellipsoid	broad ellipsoid	narrow ellipsoid
<input type="checkbox"/> *Berry: colour of skin (without bloom)	green	green	green	yellow green	green
<input type="checkbox"/> Berry: ease of detachment from pedicel	moderately easy	very easy	very easy	very easy	moderately easy
<input type="checkbox"/> Berry: thickness of skin	thick	medium	medium	medium	medium
<input type="checkbox"/> *Berry: anthocyanin colouration of flesh	absent or very weak	absent or very weak	absent or weak	absent or very weak	absent or very weak
<input type="checkbox"/> Berry: firmness of flesh	very firm	very firm	moderately firm	moderately firm	moderately firm
<input type="checkbox"/> *Berry: particular flavour	none	none	none	none	none
<input type="checkbox"/> *Berry: formation of seeds	rudimentary	rudimentary	rudimentary	rudimentary	none

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Sugra35' ('Itumfive' (Autumn Crisp'))	'Sheegene 17' (Great Green Seedless)	'Sheegene 4' (Luisco)	'IFG 11' (Sugar Crisp)	
<input type="checkbox"/> berry: colour of skin (RHS code)	145	145	141 and 145	144	145
<input checked="" type="checkbox"/> Berry: maturity for harvest	late	medium	medium	medium to late	medium to late

Statistical Table

Organ/Plant Part: Context	'Itumfive'	'Sugra35' (Autumn Crisp')	'Sheegene 17' (Great Green Seedless)	'Sheegene 4' (Luisco)	'IFG 11' (Sugar Crisp)
<input checked="" type="checkbox"/> Mature leaf: length of the main vein (mm)					
Mean	95.00	116.00	109.00	139.00	108.00
Std. Deviation	14.00	18.00	21.00	33.00	19.00
Lsd/sig	10.4	P ≤ 0.01	P ≤ 0.01	P ≤ 0.01	P ≤ 0.01
<input checked="" type="checkbox"/> Mature leaf: ratio of length of main vein to leaf width					
Mean	0.76	0.85	0.80	0.81	0.84
Std. Deviation	0.07	0.10	0.10	0.10	0.12
Lsd/sig	0.05	P ≤ 0.01	ns	ns	P ≤ 0.01
<input checked="" type="checkbox"/> Mature leaf: ratio of petiole length to the length of the main vein					
Mean	0.91	0.73	0.82	1.08	0.65

Std. Deviation	0.18	0.18	0.15	0.18	0.19
Lsd/sig	0.105	$P \leq 0.01$	ns	$P \leq 0.01$	$P \leq 0.01$

<input checked="" type="checkbox"/> Mature leaf: depth of upper lateral sinus (mm)					
Mean	14.00	9.00	17.00	20.00	20.00
Std. Deviation	8.00	3.00	6.00	7.00	9.00
Lsd/sig	3.6	$P \leq 0.01$	ns	$P \leq 0.01$	$P \leq 0.01$

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2013	granted	'Itumfive'

No prior sale.

Description: Alison MacGregor, Mildura, Vic., Australia

Details of Application

Application Number	2016/385
Variety Name	‘DT-1’
Genus Species	<i>Cynodon transvaalensis</i> x <i>Cynodon dactylon</i>
Common Name	Hybrid Green Couch Grass
Synonym	Nil
Accepted Date	10 May 2017
Applicant	University of Georgia Research Foundation, Inc, Georgia, USA
Agent	Lawn Solutions Australia Group Pty Ltd, Berry, NSW.
Qualified Person	Ian Paananen

Details of Comparative Trial

Location	Jaspers Brush, NSW
Descriptor	PBR Couch
Period	winter-spring 2017
Conditions	Trial planted into 200 pots filled with soilless potting mix, nutrition maintained with slow release and liquid fertilisers. No pest and disease treatments were required.
Trial Design	Twelve pots of each variety arranged in a completely randomised design.
Measurements	From 10 plants at random.
RHS Chart - edition	2015

Origin and Breeding

Open pollination: seed parent un-named *C. transvaalensis* x pollen parent un-named *C. dactylon* in 2000 at Tifton, Georgia, USA. The seed parent is characterised by medium plant growth vigour, medium drought tolerance and medium wear tolerance. The pollen parent is also characterised by medium plant growth vigour, medium drought tolerance and medium wear tolerance. *C. transvaalensis* parents were surrounded by *C. dactylon* in field plots in close proximity. Progeny were planted and established plots were subjected to frequent scheduled mowing. In 2002 plants with good density, colour and drought tolerance were selected and subsequently trialled in field tests for drought and stress tolerance. DT-1 was among these. 2003 onwards: field trials to establish traits and DUS. Selection criteria: excellent drought tolerance and wear and traffic tolerance, fast growth rate, good foliar colour, small seed heads. Propagation: vegetative cuttings and divisions were found to be uniform and stable. Breeders: Wayne Hanna and Brian Schwartz, University of Georgia Research Foundation, Inc, Georgia, USA.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	prostrate
Plant	height	short to very short
Stolon	nodes	compound
Stolon	number of branches	many

Leaf	hairiness of leaf sheath	present
Leaf	ligule	present
Leaf	variegation	absent

Most Similar Varieties of Common Knowledge identified (VCK)

Name **Comments**

‘ST-5’

‘Tift 94’

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
‘TifEagle’	Stolonlength of internode	short to medium	very short to short	
‘Santa Ana’	Stolonlength of internode	short to medium	long	
‘AGR D’	Stolonwidth of internode	medium	narrow	
‘Champion Dwarf’	Stolonlength of internode	short to medium	very short	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘DT-1’	‘ST-5’	‘Tift 94’
<input type="checkbox"/> Stolon: nodes	compound	compound	compound
<input type="checkbox"/> Stolon: number of branches	many	many	many
<input checked="" type="checkbox"/> Stolon: length of internode	short to medium	medium to long	long
<input checked="" type="checkbox"/> Stolon: width of internode	medium	broad	medium
<input checked="" type="checkbox"/> Stolon: anthocyanin colouration on leaf sheath	strong	strong	medium
<input checked="" type="checkbox"/> Stolon: hairiness of leaf sheath	absent	absent	present
<input checked="" type="checkbox"/> Stolon: density of hairiness of leaf sheath	absent or very weak	absent or very weak	medium
<input type="checkbox"/> Leaf: hairiness of leaf blade	present	present	present
<input type="checkbox"/> Leaf: distribution of hairiness of leaf blade	both upper and lower side	both upper and lower side	both upper and lower side
<input type="checkbox"/> Leaf: hairiness of leaf sheath	present	present	present
<input checked="" type="checkbox"/> Leaf: degree of hairiness of leaf sheath	strong	strong	medium
<input type="checkbox"/> Leaf: ligule	present	present	present
<input checked="" type="checkbox"/> Leaf: density of ligule hairs	dense	dense	medium
<input type="checkbox"/> Leaf: colour of collar	lighter than leaf sheath	lighter than leaf sheath	lighter than leaf sheath
Organ/Plant Part: Context	‘DT-1’	‘ST-5’	‘Tift 94’

<input type="checkbox"/>	Leaf: hairiness of collar	absent	absent	absent
<input checked="" type="checkbox"/>	Plant: number of stolons	medium	many	medium to many
<input checked="" type="checkbox"/>	Plant: depth of stolons	medium	deep	medium to deep
<input checked="" type="checkbox"/>	Plant: growth vigour	very strong	medium	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2015	Granted	'DT-1'

First sold in Sep 2015 in USA.

Description: Ian Paananen, Crop and Nursery Services, Macmasters Beach, NSW 2251.

Details of Application

Application Number	2008/183
Variety Name	'CT5000'
Genus Species	<i>Pennisetum clandestinum</i>
Common Name	Kikuyu grass
Synonym	Ceretec Five Thousand
Accepted Date	05 Aug 2008
Applicant	Roy David Eykamp, Quirindi, NSW
Qualified Person	Ian Paananen

Details of Comparative Trial

Location	Macmasters Beach, NSW
Descriptor	Grass (General descriptor for grasses) PBR GRAS
Period	December 2021 - May 2022
Conditions	Trial conducted in open beds, planted into 200mm pots filled with soilless potting mix, nutrition maintained with slow release and liquid fertilisers, pest and disease treatments not required, initially pot to pot, then pots spaced before stolons elongated.
Trial Design	Twenty plants of each variety arranged in a completely randomised design. Two generations of candidate.
Measurements	From ten plants at random
RHS Chart - edition	2015

Origin and Breeding

Selection from source material: Breeding conducted by field selection from 1 acres of 'Noonan' – 'Noonan' seed supplied by NSW Department of Ag Grafton and planted very thin by drill on 1 acre. Plants were selected on basis of leaf size, length, colour, stolon length, and node intervals. Colour by selecting only darker plants. All plants were selected for turf qualities only. Only the least aggressive and densest plants were selected. Selected plants were transplanted on 1 acre area and managed for seed production. Seed harvested was replanted on a new 5-acre plot and any off-types were eliminated by digging up. The plot was then managed for seed production and harvested seed was sown on 25 acres. Seed was taken to Tamworth and planted on 80 acres for commercial seed production. Breeder: Donald Eugene Eykamp, Emerald, QLD.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	life cycle	perennial
Plant	stolons	present
Stolon	length of 4th internode	short
Stolon	width of 4 th internode	narrow
Stolon	colour where sun exposed (summer)	yellow green
Stolon	length of leaf sheath (4 th internode)	short to medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'AZ-1'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with a tick.

Organ/Plant Part: Context	'CT5000'	'AZ-1'
<input type="checkbox"/> Plant: life cycle	perennial	perennial
<input type="checkbox"/> Plant: duration of life cycle (perennials only)	long	long
<input type="checkbox"/> Plant: growth habit	mat-forming	mat-forming
<input type="checkbox"/> Plant: stolons	present	present
<input type="checkbox"/> Plant: rhizomes	present	present
<input type="checkbox"/> Stolon: nodes	simple	simple
<input checked="" type="checkbox"/> Stolon: number of branches	many	very many
<input type="checkbox"/> Stolon: length of internode	short	short
<input type="checkbox"/> Stolon: width of internode	narrow	narrow
<input type="checkbox"/> Stolon: colour where exposed to sun (summer) (RHS colour chart)	146A-B	146A-B
<input type="checkbox"/> Stolon: length of leaf sheath	medium	short to medium
<input checked="" type="checkbox"/> Stolon: length of leaf blade	short	medium
<input type="checkbox"/> Stolon: width of leaf blade	narrow	narrow to medium
<input type="checkbox"/> Stolon: hairiness of leaf sheath	present	present
<input type="checkbox"/> Stolon: extent of hairiness of leaf sheath	medium	medium
<input type="checkbox"/> Stolon: distribution of hairiness of leaf sheath	full	full
<input type="checkbox"/> Stolon: leaf blade glaucosity	absent	absent
<input type="checkbox"/> Stolon: shape of leaf blade	triangular	triangular
<input type="checkbox"/> Stolon: shape of leaf apex	acute	acute
<input type="checkbox"/> Stolon: hairs on leaf blade	present	present
<input type="checkbox"/> Stolon: distribution of hairs on leaf blade	both sides	both sides

Statistical Table

Organ/Plant Part: Context	'CT5000'	'AZ-1'
<input checked="" type="checkbox"/> Plant: length of longest stolon (mm)		
Mean	171.9	346.0
Std. Deviation	27.2	77.2
LSD/sig	n/a	P ≤ 0.01
<input checked="" type="checkbox"/> Stolon: length of 4 th internode (mm)		
Mean	19.8	26.6

Std. Deviation	2.23	4.0
LSD/sig	n/a	$P \leq 0.01$
<input type="checkbox"/> Stolon: width of 4 th internode (mm)		
Mean	3.1	3.6
Std. Deviation	0.3	0.4
LSD/sig	n/a	ns
<input checked="" type="checkbox"/> Stolon: length of leaf sheath (4 th internode) (mm)		
Mean	39.6	30.4
Std. Deviation	2.8	6.9
LSD/sig	n/a	$P \leq 0.01$
<input checked="" type="checkbox"/> Stolon: length of leaf blade (4 th internode) (mm)		
Mean	184.1	237.5
Std. Deviation	22.8	35.0
LSD/sig	n/a	$P \leq 0.01$
<input checked="" type="checkbox"/> Stolon: width of leaf blade (4 th internode) (mm)		
Mean	5.0	6.1
Std. Deviation	0.4	0.7
LSD/sig	n/a	$P \leq 0.01$

Prior Applications and Sales

Country	Year	Current Status	Name Applied
New Zealand	2010	Applied	'CT5000'

First sold in Australia in January 2008.

Description: Ian Paananen, Macmasters Beach, NSW 2251.

Details of Application

Application Number	2018/361
Variety Name	'Fulkerson'
Genus Species	<i>Pennisetum clandestinum</i>
Common Name	Kikuyu grass
Accepted Date	15 Jan 2019
Applicant	Eykamp Seeds Pty Ltd, Quirindi, NSW 2343; Eycorp Pty Ltd, Quirindi, NSW2343
Qualified Person	Ian Paananen

Details of Comparative Trial

Location	Macmasters Beach, NSW
Descriptor	PBR GRAS
Period	December 2021 - May 2022
Conditions	Trial conducted in open beds, planted into 200mm pots filled with soilless potting mix, nutrition maintained with slow release and liquid fertilisers, pest and disease treatments not required, initially pot to pot, then pots spaced before stolons elongated.
Trial Design	Twenty plants of each variety arranged in a completely randomised design. Two generations of candidate.
Measurements	From ten plants at random
RHS Chart - edition	2015

Origin and Breeding

Seedling selection: seed parent *P. clandestinum* in 2016. The seed parent is characterised by a medium stolon growth vigour, medium organic matter digestibility and low resistance to Kikuyu Yellow's Disease selection took place in Kyogle and Lismore, NSW in 2016. Selection criteria: strong stolon growth vigour, high organic matter digestibility and very high resistance to Kikuyu Yellow's Disease. Propagation: vegetative cuttings and division are found to be uniform and stable. Breeder: Bill Fulkerson, Far North Coast Dairy Industry Group Inc, NSW 2480.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	life cycle	perennial
Plant	stolons	present
Stolon	number of branches	few
Stolon	colour where sun exposed (summer)	yellow green
Stolon	shape of leaf apex	acute

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Whittet'	
'Acacia Plateau'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Noonan'	Stolon: growth vigour	strong	medium	candidate has very high resistance to Kikuyu Yellows Disease whereas comparator has low resistance
'Breakwell'	Stolon: growth vigour	strong	medium	candidate has very high resistance to Kikuyu Yellows Disease whereas comparator has low resistance
'Crofts'	Stolon: growth vigour	strong	medium-strong	candidate has very high resistance to Kikuyu Yellows Disease whereas comparator has low resistance

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Fulkerson'	'Whittet'	'Acacia Plateau'
<input type="checkbox"/> Plant: life cycle	perennial	perennial	perennial
<input type="checkbox"/> Plant: duration of life cycle (perennials only)	long	long	long
<input type="checkbox"/> Plant: growth habit	mat-forming	mat-forming	mat-forming
<input type="checkbox"/> Plant: stolons	present	present	present
<input type="checkbox"/> Plant: rhizomes	present	present	present
<input type="checkbox"/> Stolon: nodes	simple	simple	simple
<input type="checkbox"/> Stolon: number of branches	few	few	few
<input checked="" type="checkbox"/> Stolon: length of internode	short to medium	medium to long	medium to long
<input checked="" type="checkbox"/> Stolon: width of internode	narrow	medium	medium to broad
<input type="checkbox"/> Stolon: colour where exposed to sun (summer) (RHS colour chart)	146A-B	146B	146A-B
<input checked="" type="checkbox"/> Stolon: length of leaf sheath	short to medium	medium to long	medium to long
<input checked="" type="checkbox"/> Stolon: length of leaf blade	short to medium	medium to long	short to medium
<input checked="" type="checkbox"/> Stolon: width of leaf blade	narrow	medium to broad	medium to broad
<input type="checkbox"/> Stolon: hairiness of leaf sheath	present	present	present
<input type="checkbox"/> Stolon: extent of hairiness of leaf sheath	medium	medium	medium
<input type="checkbox"/> Stolon: distribution of hairiness of leaf sheath	full	full	full
<input type="checkbox"/> Stolon: leaf blade glaucosity	absent	absent	absent
<input type="checkbox"/> Stolon: shape of leaf blade	triangular	triangular	triangular
<input type="checkbox"/> Stolon: shape of leaf apex	acute	acute	acute

<input type="checkbox"/>	Stolon: hairs on leaf blade	present	present	present
<input type="checkbox"/>	Stolon: distribution of hairs on leaf blade	both sides	both sides	both sides

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘Fulkerson’	‘Whittet’	‘Acacia Plateau’
<input checked="" type="checkbox"/> Plant: resistance to Kikuyu Yellow Disease	very strong	weak	medium

Statistical Table

Organ/Plant Part: Context	‘Fulkerson’	‘Whittet’	‘Acacia Plateau’
<input checked="" type="checkbox"/> Plant: length of longest stolon (mm)			
Mean	263.00	405.50	606.30
Std. Deviation	28.50	86.30	124.70
Lsd/sig	n/a	P ≤ 0.01	P ≤ 0.01
<input checked="" type="checkbox"/> Stolon: length of 4th internode (mm)			
Mean	23.10	36.90	45.00
Std. Deviation	2.60	5.10	7.30
Lsd/sig	n/a	P ≤ 0.01	P ≤ 0.01
<input checked="" type="checkbox"/> Stolon: width of 4th internode (mm)			
Mean	3.10	4.90	4.80
Std. Deviation	0.20	0.50	0.50
Lsd/sig	n/a	P ≤ 0.01	P ≤ 0.01
<input checked="" type="checkbox"/> Stolon: length of leaf sheath (4th internode) (mm)			
Mean	36.20	45.60	44.20
Std. Deviation	4.60	8.90	7.10
Lsd/sig	n/a	P ≤ 0.01	P ≤ 0.01
<input checked="" type="checkbox"/> Stolon: length of leaf blade (4th internode) (mm)			
Mean	201.50	316.20	233.50
Std. Deviation	15.60	35.30	42.30
Lsd/sig	n/a	P ≤ 0.01	ns
<input checked="" type="checkbox"/> Stolon: width of leaf blade (4th internode) (mm)			
Mean	4.90	8.20	8.90
Std. Deviation	0.40	0.80	0.80
Lsd/sig	n/a	P ≤ 0.01	P ≤ 0.01

Prior Applications and Sales: Nil

Description: Ian Paananen, Macmasters Beach, NSW 2251.

Details of Application

Application Number	2020/120
Variety Name	“PATROBAS”
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	05 Aug 2020
Applicant	Vilmorin-Mikado, 49250 La Méniltré, France
Agent	Spruson & Ferguson, NSW 2000
Qualified Person	Calixto Dilag

Details of Comparative Trial

Location	Templestowe, VIC
Descriptor	UPOV TG/13/11 Rev. 2
Period	2021-2022
Conditions	Trial was conducted in Templestowe, Victoria. Set up includes drip tape for irrigation, black fleece as weed control and bird nets at plants early stage. Trial was assessed early summer of 2021.
Trial Design	Side by side comparison
Measurements	As per UPOV guideline
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: Cross made in summer 2015 between the two parents. F2 68/24589/01 was screened in France in spring 2016 under the plot number 16/16412. F3 16/16412/10 was harvested in France in autumn 2016 and then tested for *Bremia lactucae* resistance. F3 16/16412/10 was screened in France in spring 2017 under the plot number 17/17790. F4 17/17790/03 was harvested in France in autumn 2017 and then tested for *Bremia lactucae* resistance. F5 17/17790/30 was produced in France during summer 2018 and harvest in autumn 2018. Main selection criteria used to develop the variety are *Bremia lactucae* resistance, head size and leaf thickness. Breeder: Vilmorin S. A., LA MENITRE 49250, France.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	anthocyanin coloration	absent
Plant	resistance to <i>Bremia lactucae</i> isolate bl: 16	present
Seed	colour	brown

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
“Bernardinas”	
“Roundhouse”	

Variety Description and Distinctness - Characteristics which distinguish the candidate from

one or more of the comparators are marked with X

Organ/Plant Part: Context	“PATROBAS”	“Bernardinas”	“Roundhouse”
<input type="checkbox"/> Seed: colour	brown	brown	brown
<input checked="" type="checkbox"/> Plant: diameter	medium to large	large	large to very large
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	strong	strong	strong
<input type="checkbox"/> Leaf: attitude	semi-erect to horizontal	erect to semi-erect	semi-erect to horizontal
<input checked="" type="checkbox"/> Leaf: shape	obovate	broad elliptic	circular
<input type="checkbox"/> Leaf: shape of apex	rounded	obtuse	rounded
<input type="checkbox"/> Leaf: anthocyanin colouration	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> Leaf: intensity of green colour	medium to dark	dark	medium
<input type="checkbox"/> Leaf: glossiness of upper side	strong to very strong	strong	strong
<input type="checkbox"/> Leaf: thickness	thick	thick	medium
<input type="checkbox"/> Leaf: blistering	medium	medium	strong
<input type="checkbox"/> Leaf: size of blisters	medium to large	large	medium
<input type="checkbox"/> Leaf: undulation of margin	medium	weak to medium	medium
<input checked="" type="checkbox"/> Leaf: type of incisions of margin	regularly dentate	irregularly dentate	irregularly dentate
<input type="checkbox"/> Leaf: depth of incisions of margin	shallow to medium	shallow	shallow
<input type="checkbox"/> Leaf: venation	flabellate	flabellate	flabellate
<input type="checkbox"/> Head: shape in longitudinal section	narrow oblate	broad elliptic	narrow oblate
<input type="checkbox"/> Head: density	very dense	very dense	very dense
<input type="checkbox"/> Plant: time of beginning of bolting	medium	medium to late	medium
<input type="checkbox"/> Plant: axillary sprouting	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak to weak	absent or very weak to weak	absent or very weak to weak
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 16	present	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 17	present	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 20	present	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 21	present	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 22	present	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 23	present	absent	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	present	present

(Bl) Isolate Bl: 24			
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	present	present
(Bl) Isolate Bl: 25			
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	present	present
(Bl) Isolate Bl: 26			
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	absent	present
(Bl) Isolate Bl: 27			
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	absent	present
(Bl) Isolate Bl: 29			
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	absent	absent
(Bl) Isolate Bl: 30			
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i>	present	present	absent
(Bl) Isolate Bl: 31			
<input type="checkbox"/> Plant: Resistance to <i>Lettuce mosaic virus</i> (LMV) Pathotype II	present	present	present
<input type="checkbox"/> Resistance to <i>Nasonovia ribisnigri</i> (Nr): 0	present	present	present

Prior Applications and Sales: Nil

Description: Calixto Dilag, Bulleen, VIC 3105

Details of Application

Application Number	2021/169
Variety Name	'SPRINKIN'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	17 Sep 2021
Applicant	Nunhems B.V., 6083 AB Nunhem, The Netherlands
Agent	Spruson & Ferguson, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA4344
Location	Naktuinbouw, ROELOFARENDSVEEN, NL
Descriptor	TP/13/6 Rev d.d. 15-02-2019
Period	2020
Trial Design	In accordance with TP/13/6
Measurements	In accordance with TP/13/6
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: A cross was made between two parent breeding lines, and a number of F1 plants were self-pollinated. From the second until the fifth generation, pedigree selection was performed. From the fifth until the eighth-generation line selection was performed. The resulting variety was found to be stable and uniform. Breeder: Johan van Zee, Nunhems B.V., 6083 AB Nunhem, Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Context	Part	State of Expression in Group of Varieties
Plant	type	iceberg
Culture	type	in the open
Seed	colour	black
Leaf	anthocyanin colouration	absent or very weak
Bolting	time of beginning of	very late
Resistance	Bremia lactucae (BL) isolate BL: 16EU	present
Resistance	Bremia lactucae (BL) isolate BL: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Tassic'	
'Templin'	
'Rockin'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Templin'	leaf: blistering	weak	medium	
'Rockin'	resistance: nasonovia ribisnigri (nr) biotype nr: 0	present	absent	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context

	'SPRINKIN'	'Tassic'
<input type="checkbox"/> *Seed: colour	black	
<input type="checkbox"/> *Seedling: anthocyanin colouration	absent	
<input checked="" type="checkbox"/> *Plant: diameter	medium to large	large
<input type="checkbox"/> Head: degree of overlapping of upper part of leaves (varieties with closed head formation only)	strong	
<input type="checkbox"/> Head: density	dense to very dense	
<input type="checkbox"/> Head: size	large	
<input type="checkbox"/> *Head: shape in longitudinal section	narrow oblate	
<input type="checkbox"/> Leaf: thickness	thick	
<input type="checkbox"/> Leaf: attitude at harvest maturity	semi-erect	
<input type="checkbox"/> *Leaf: shape	narrow oblate	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input checked="" type="checkbox"/> *Leaf: intensity of colour of outer leaves	medium	medium to dark
<input type="checkbox"/> *Leaf: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Leaf: glossiness of upper side	weak to medium	
<input type="checkbox"/> *Leaf: blistering	medium	
<input type="checkbox"/> Leaf: size of blisters	small to medium	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	weak	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	present	
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	shallow to medium	
<input type="checkbox"/> Leaf blade: density of incisions on margin on apical part	sparse to medium	
<input type="checkbox"/> Leaf: type of incisions on margin	irregularly dentate	
<input type="checkbox"/> Leaf blade: venation	flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> Time of: harvest maturity	late	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late	

<input type="checkbox"/> Bolting stem: fasciation	absent to very weak
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: <i>Nasonovia ribisnigri</i> biotype Nr:0	present

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'SPRINKIN'	'Tassic'
<input type="checkbox"/> Resistance to: Lettuce mosaic virus (LMV) pathotype II	absent	
<input type="checkbox"/> Resistance to: <i>Bremia factucae</i> (BI) isolate BI: 29EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia factucae</i> (BI) isolate BI: 31EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia factucae</i> (BI) isolate BI: 33EU	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
Switzerland	2020	granted	'SPRINKIN'
Norway	2020	granted	'SPRINKIN'
Mexico	2021	applied	'SPRINKIN'
Netherlands	2019	granted	'SPRINKIN'
European Union	2020	granted	'SPRINKIN'
Russia	2020	pending	'SPRINKIN'

Prior sales: first sold in Netherlands in Dec 2019.

Description: Ean Blackwell, Sydney, NSW 2000.

Details of Application

Application Number	2022/094
Variety Name	'ICE PARTY'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Synonym	'IceParty'
Accepted Date	15 Jun 2022
Applicant	Syngenta Crop Protection AG, Basel 4058, Switzerland
Agent	Syngenta Australia Pty. Ltd., NSW 2113
Qualified Person	John Oates

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, Netherlands
Overseas Data Reference Number	SLA4033
Location	Naktuinbouw, Roelofarendsveen, Netherlands
Descriptor	CPVO TP/13/6 Rev
Period	2019
Conditions	N/A
Trial Design	N/A
Measurements	As per technical guidelines
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: a F1 hybrid was obtained from the cross between two free varieties. The commercial variety 'Ice Party' was selected after 7 cycles of selection and fixation by self-pollination. During the first 5 cycles of characters selected for: head size, head protection bottom quality and weight under normal conditions, fixed the resistance genes for *Bremia lactucae* disease and *Nasonovia ribisnigri* via molecular assistance selection. Last 2 cycles were used to achieve uniformity and stability for the variety. And using a range of field trials for general adaptation. Breeder: Olaf Zonneveld, Syngenta Crop Protection AG, Basel, Switzerland.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Seed	colour	black
Leaf	anthocyanin colouration	absent or very weak
Bolting	time of beginning	very late
Resistance	to <i>Bremia lactucae</i> :29EU	present
Resistance	to <i>Bremia lactucae</i> :16EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Ice Circle'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Watergate'	resistance: to <i>Bremia lactucae</i> (Bl) isolate Bl: 33EU	present	absent	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'ICE PARTY'	'Ice Circle'
<input type="checkbox"/> Seed: colour	black	
<input type="checkbox"/> Plant: diameter	large to very large	
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	strong	
<input type="checkbox"/> Leaf: attitude	semi-erect to horizontal	
<input type="checkbox"/> Leaf: number of divisions	absent or very few	
<input type="checkbox"/> Leaf: shape	narrow oblate	
<input type="checkbox"/> Leaf: shape of apex	rounded	
<input type="checkbox"/> Leaf: longitudinal section	flat	
<input type="checkbox"/> Leaf: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Leaf: colour	green	
<input type="checkbox"/> Leaf: intensity of green colour	medium (lighter)	medium
<input type="checkbox"/> Leaf: glossiness of upper side	weak	
<input type="checkbox"/> Leaf: thickness	thick	
<input checked="" type="checkbox"/> Leaf: blistering	weak to medium	medium
<input type="checkbox"/> Leaf: size of blisters	small to medium	
<input type="checkbox"/> Leaf: undulation of margin	weak to medium	
<input type="checkbox"/> Leaf: type of incisions of margin	irregularly dentate	
<input type="checkbox"/> Leaf: depth of incisions of margin	shallow to medium	
<input type="checkbox"/> Leaf: depth of secondary incisions of margin	shallow	
<input type="checkbox"/> Leaf: density of incisions of margin	sparse to medium	
<input type="checkbox"/> Leaf: venation	flabellate	
<input type="checkbox"/> Head: size	medium to large	
<input type="checkbox"/> Head: shape in longitudinal section	narrow oblate	
<input type="checkbox"/> Head: density	very dense	
<input type="checkbox"/> Upper part of leaves: time of harvest maturity	medium to late	
<input type="checkbox"/> Plant: time of beginning of bolting	very late	
<input type="checkbox"/> Plant: axillary sprouting	medium	
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak	

<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 17EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 20EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 21EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 22EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 23EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 24EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 25EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) Isolate Bl: 26EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 27EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 30EU	present
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 31EU	present
<input type="checkbox"/>	Plant: resistance to <i>Lettuce mosaic virus</i> (LMV) pathotype II	absent
<input type="checkbox"/>	Resistance to <i>Nasonovia ribisnigri</i> (Nr) biotype Nr: 0	present
<input type="checkbox"/>	Plant: resistance to <i>Fusarium oxysporum</i> f.sp. <i>lactucae</i> (Fol) race 1	susceptible
<input type="checkbox"/>	Resistance: to <i>Bremia lactucae</i> (Bl) Isolate Bl: 35EU	present
<input type="checkbox"/>	Resistance: to <i>Bremia lactucae</i> (Bl) Isolate Bl: 33EU	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2018	granted	'Ice Party'
European Union	2019	granted	'Ice Party'

First sold in United Kingdom in Dec 2018.

Description: John Oates, Merimbula, NSW, 2548.

Details of Application

Application Number	2022/115
Variety Name	‘Sirula’
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	20 Jul 2022
Applicant	Syngenta Crop Protection AG, Basel 4058, Switzerland
Agent	Syngenta Australia Pty. Ltd., NSW 2113
Qualified Person	David Gillespie

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, Netherlands
Overseas Data Reference Number	SLA431
Location	Naktuinbouw, Roelofarendsveen, Netherlands
Descriptor	UPOV TG/13/11
Period	2020
Conditions	Unknown
Trial Design	Not known
Measurements	As per TP/13/6 revised date 15-02-2019
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: ‘Sirula’ was obtained by a cross between two Syngenta breeding lines and the progenies were selected over seven cycles of selection. The main criteria used in selection were plant size, tip-burn and slow bolting tolerance in hot conditions. Quality of upper and underside of leaves was also a selection characteristic. *Bremia lactucae* resistance was aided by Molecular Assistance Selection. Weight of head was defined as head yield. Breeder: Miguel Roca, Syngenta Crop Protection AG, Basel, Switzerland.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Leaf	attitude	semi-erect
Leaf	intensity of green colour	medium
Plant	type	oakleaf type
Seed	colour	black
Plant	time of beginning of bolting	very late
Plant	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
Plant	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Okini'	similar to candidate in many respects

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Sansula'	resistance to <i>Bremia lactucae</i> (Bl) isolate:29	resistant	susceptible	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Sirula'	'Okini'
<input type="checkbox"/> Seed: colour	black	Black
<input checked="" type="checkbox"/> Plant: diameter	medium	small
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	absent or weak	
<input type="checkbox"/> Plant: number of leaves	few	
<input type="checkbox"/> Leaf: attitude	semi-erect	semi-erect
<input type="checkbox"/> Leaf: number of divisions	few to medium	
<input type="checkbox"/> Leaf: width of lobes	narrow to medium	
<input type="checkbox"/> Leaf: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Leaf: colour	green	
<input type="checkbox"/> Leaf: intensity of green colour	medium	medium
<input type="checkbox"/> Leaf: glossiness of upper side	weak to medium	
<input type="checkbox"/> Leaf: thickness	thin	
<input type="checkbox"/> Leaf: blistering	weak to medium	
<input type="checkbox"/> Leaf: size of blisters	small	
<input type="checkbox"/> Leaf: undulation of margin	weak	
<input type="checkbox"/> Leaf: type of incisions of margin	crenate	
<input type="checkbox"/> Leaf: depth of incisions of margin	shallow	
<input type="checkbox"/> Leaf: density of incisions of margin	sparse	
<input type="checkbox"/> Leaf: venation	semi-flabellate	
<input type="checkbox"/> Plant: time of beginning of bolting	very late	
<input type="checkbox"/> Plant: axillary sprouting	medium	
<input type="checkbox"/> Bolting stem: fasciation	strong	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 17	absent	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 20	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 21	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 22	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 23	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 24	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 25	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 26	present	

<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 27	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29	present	present
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 30	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 31	present	
<input type="checkbox"/> Plant: resistance to <i>Lettuce mosaic virus</i> (LMV) pathotype II	present	
<input type="checkbox"/> Resistance to <i>Nasonovia ribisnigri</i> (Nr): 0	present	

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘Sirula’	‘Okini’
<input type="checkbox"/> Plant: resistance to <i>Bremia practice</i> (Bl) isolate 33	present	
<input type="checkbox"/> Plant: resistance to <i>Bremia lactucae</i> (Bl) isolate 35	present	
<input type="checkbox"/> Plant: type	oakleaf	Oakleaf

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2019	granted	‘Sirula’
European Union	2020	granted	‘Sirula’

First sold in Belgium in March 2020.

Description: David Gillespie, Ormiston, QLD 4160.

Details of Application

Application Number	2022/049
Variety Name	'RAWLEY'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	23 May 2022
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., DE LIER, The Netherlands
Agent	Spruson & Ferguson, Sydney, NSW
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, NL
Overseas Data Reference Number	SLA4391
Location	Naktuinbouw, ROELOFARENDSVEEN, NL
Descriptor	TP/13/6 Rev d.d. 15-02-2019
Period	2020
Conditions	As per test report
Trial Design	In accordance with TP/13/6 Rev d.d. 15-02-2019
Measurements	In accordance with TP/13/6 Rev d.d. 15-02-2019

RHS Chart - edition**Origin and Breeding**

Controlled pollination: A pedigree-based plant and line selection method was used to select 'RAWLEY' out of a cross between internal Rijk Zwaan breeding line 133777 and internal Rijk Zwaan breeding line 641902, noting advanced resistance to *Bremia lactucae*. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., DE LIER, The Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	gem type
Seed	colour	white
Culture	type	in the open
Leaf	anthocyanin coloration	absent or very weak
Bolting	time of beginning of bolting	late
Resistance	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
Resistance	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Ximenes'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'RAWLEY'	'Ximenes'
----------------------------------	-----------------	------------------

<input type="checkbox"/> Seed: colour	white	
<input type="checkbox"/> Plant: diameter	medium	
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	medium	
<input checked="" type="checkbox"/> Leaf: attitude	erect to semi-erect	semi-erect
<input type="checkbox"/> Leaf: number of divisions	absent or very few	
<input type="checkbox"/> Leaf: shape	medium elliptic	
<input type="checkbox"/> Leaf: shape of apex	rounded	
<input type="checkbox"/> Leaf: longitudinal section	flat	
<input type="checkbox"/> Leaf: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Leaf: colour	green	
<input type="checkbox"/> Leaf: intensity of green colour	medium to dark	medium to dark
<input type="checkbox"/> Leaf: glossiness of upper side	medium	
<input type="checkbox"/> Leaf: thickness	medium	
<input type="checkbox"/> Leaf: blistering	medium to strong	
<input checked="" type="checkbox"/> Leaf: size of blisters	small to medium	small
<input type="checkbox"/> Leaf: undulation of margin	absent or very weak	

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘RAWLEY’	‘Ximenes’
<input type="checkbox"/> Head: shape in longitudinal section	broad elliptic	
<input type="checkbox"/> Harvest maturity: time of harvest maturity	medium	
<input type="checkbox"/> Bolting: time of beginning of bolting	late	
<input type="checkbox"/> Stem: Axillary sprouting	absent or weak	
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak	
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate BI: 16EU	present	
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate BI: 17EU	present	
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate BI: 20EU	present	
<input type="checkbox"/> Leaf: venation	not flabellate	
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate BI: 21EU	present	
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate BI: 22EU	present	
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate BI: 23EU	present	

<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 24EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 25EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 26EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 27EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 30EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 31EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 33EU	present
<input type="checkbox"/> Resistance: Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 35EU	present
<input type="checkbox"/> Resistance: Resistance to Lettuce mosaic virus (LMV) pathotype II	present
<input type="checkbox"/> Resistance: Resistance to <i>Nasonovia ribisnigri</i> (Nr) biotype Nr: 0	present
<input type="checkbox"/> Head: size	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
CPVO	2020	Granted	'RAWLEY'
The Netherlands	2020	Granted	'RAWLEY'
Great Britain	2020	Pending	'RAWLEY'

First sold in Belgium in July 2020.

Description: Ean Blackwell, Sydney NSW 2000

Details of Application

Application Number	2022/053
Variety Name	'Immensal'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	04 May 2022
Applicant	Syngenta Crop Protection AG, Basel 4058, Switzerland
Agent	Syngenta Australia Pty. Ltd. NSW 2113
Qualified Person	John Oates

Details of Comparative Trial

Overseas Testing Authority	Naktuibouw, Netherlands
Overseas Data Reference Number	SLA4071
Location	Naktuibouw, Roelofarendsveen, Netherlands
Descriptor	TP/13/6 Rev
Period	2019
Conditions	N/A
Trial Design	N/A
Measurements	As per technical guidelines
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: 'Immensal' is a pure line variety, derived from a single cross and subsequent cycles of selection and selfing, using the Pedigree Breeding Method. During the selection process, the best plants were selected in the field for the desired agronomic characters viz. earliness, bolting and tipburn tolerance, leaf colour, shape, plant upside presentation and head filling. Molecular markers were used for the detection of specific resistance genes. the desired resistances have been confirmed in specific laboratory tests. Breeder: Miguel Roca, Syngenta Crop Protection AG, Switzerland.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Seed	colour	white
Leaf	anthocyanin colouration	absent or very weak
Bolting	time of beginning	late to very late
Resistance	to <i>Bremia lactucae</i> (Bl) isolate:16EU	present
Resistance	to <i>Bremia lactucae</i> (Bl) isolate:29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Calorina'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from

one or more of the comparators are marked with X

Organ/Plant Part: Context	'Immensal'	'Calorina'
<input type="checkbox"/> Seed: colour	white	
<input type="checkbox"/> Plant: diameter	large	large
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	medium	
<input type="checkbox"/> Leaf: attitude	erect to semi-erect	
<input type="checkbox"/> Leaf: number of divisions	absent or very few	
<input type="checkbox"/> Leaf: shape	obovate	
<input type="checkbox"/> Leaf: shape of apex	rounded	
<input type="checkbox"/> Leaf: longitudinal section	flat to convex	
<input type="checkbox"/> Leaf: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Leaf: colour	green	
<input type="checkbox"/> Leaf: intensity of green colour	medium	
<input type="checkbox"/> Leaf: glossiness of upper side	weak	
<input type="checkbox"/> Leaf: thickness	thick	
<input type="checkbox"/> Leaf: blistering	strong to very strong	
<input type="checkbox"/> Leaf: size of blisters	very small to small	
<input type="checkbox"/> Leaf: undulation of margin	absent or very weak	
<input type="checkbox"/> Leaf: venation	not flabellate	
<input checked="" type="checkbox"/> Head: size	large to very large	large
<input type="checkbox"/> Head: shape in longitudinal section	narrow elliptic	
<input type="checkbox"/> Head: density	medium to dense	
<input type="checkbox"/> Upper part of leaves: time of harvest maturity	late	
<input type="checkbox"/> Plant: time of beginning of bolting	late to very late	
<input type="checkbox"/> Plant: axillary sprouting	medium	
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:16EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:17EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:20EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:21EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:22EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:23EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:24EU	present	
<input type="checkbox"/> Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:25	present	

EU		
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
26EU		
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
27EU		
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
29EU		
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
30EU		
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
31EU		
<input type="checkbox"/>	Plant: Resistance to <i>Lettuce mosaic virus</i> (LMV) pathotype II	absent
<input type="checkbox"/>	Resistance to <i>Nasonovia ribisnigri</i> (Nr) biotype Nr: 0	absent
<input type="checkbox"/>	Plant: Resistance to <i>Fusarium oxysporum</i> f.sp. <i>lactucae</i> (Fol) race 1	highly resistant
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
35EU		
<input type="checkbox"/>	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl:	present
33EU		

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2018	granted	'Immensal'
European Union	2019	granted	'Immensal'

First sold in Turkey in Dec 2019.

Description: John Oates, Merimbula, NSW 2548.

Details of Application

Application Number	2021/274
Variety Name	'CORVINAS'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	08 Jun 2022
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V.; DE LIER 2678 KX, Netherlands
Agent	Spruson & Ferguson, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw
Overseas Data Reference Number	SLA4399
Location	Naktuinbouw, ROELOFARENDSVEEN, Netherlands
Descriptor	TP/13/6 Rev
Period	2020
Conditions	N/A
Trial Design	In accordance with TP/13/6 Rev
Measurements	In accordance with TP/13/6 Rev
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: 'Corvinas' is a pure line variety, derived from a single cross between internal Rijk Zwaan proprietary breeding line 82388 and internal Rijk Zwaan proprietary breeding line 615270, followed by six subsequent cycles of selection and selfing. During the selection process, the best plants were selected due to the desired agronomic characteristics, which were resistance to *Bremia lactucae* and delayed wound induced discoloration of the leaves. Breeder: Rijk Zwaan Lettuce breeding department, Rijk Zwaan Zaadteelt en Zaadhandel B.V., Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	iceberg type
Culture	type	in the open
Seed	colour	black
Leaf	anthocyanin coloration	absent or very weak
Bolting	time of beginning of bolting	very late
Plant	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
Plant	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Corianas'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'CORVINAS'	'Corianas'
<input type="checkbox"/> Seed: colour	black	
<input checked="" type="checkbox"/> Plant: diameter	large to very large	large
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	strong	
<input type="checkbox"/> Leaf: attitude	semi-erect	
<input type="checkbox"/> Leaf: number of divisions	absent or very few	
<input type="checkbox"/> Leaf: shape	circular	
<input type="checkbox"/> Leaf: shape of apex	rounded	
<input type="checkbox"/> Leaf: longitudinal section	flat	
<input type="checkbox"/> Leaf: anthocyanin colouration	absent or very weak	
<input type="checkbox"/> Leaf: colour	green	
<input type="checkbox"/> Leaf: intensity of green colour	medium to dark	
<input type="checkbox"/> Leaf: glossiness of upper side	weak to medium	
<input type="checkbox"/> Leaf: thickness	thick	
<input type="checkbox"/> Leaf: blistering	medium	
<input type="checkbox"/> Leaf: size of blisters	small to medium	
<input checked="" type="checkbox"/> Leaf: undulation of margin	weak	medium
<input type="checkbox"/> Leaf: type of incisions of margin	irregularly dentate	
<input type="checkbox"/> Leaf: depth of secondary incisions of margin	shallow	
<input type="checkbox"/> Leaf: density of incisions of margin	sparse	
<input type="checkbox"/> Leaf: venation	flabellate	
<input type="checkbox"/> Head: size	large	
<input type="checkbox"/> Head: shape in longitudinal section	circular	
<input type="checkbox"/> Head: density	dense	
<input type="checkbox"/> Bolting: time of beginning of bolting	very late	
<input type="checkbox"/> Stem: axillary sprouting	absent or weak	
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak	
<input type="checkbox"/> Resistance: resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present	
<input type="checkbox"/> Resistance: resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 17EU	present	
<input type="checkbox"/> Resistance: resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 20EU	present	
<input type="checkbox"/> Resistance: resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 21EU	present	
<input type="checkbox"/> Resistance: resistance to <i>Bremia lactucae</i> (Bl)	present	

isolate Bl: 22EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 23EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 24EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 25EU

Leaf: depth of incisions of margin medium

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 26EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 27EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 29EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 30EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 31EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 33EU

Resistance: resistance to *Bremia lactucae* (Bl) present

isolate Bl: 35EU

Resistance: resistance to *Lettuce mosaic virus* (LMV) pathotype II present

Resistance: resistance to *Nasonovia ribisnigri* (Nr) biotype Nr: 0 present

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2020	granted	'CORVINAS'
European Union	2020	granted	'CORVINAS'
United Kingdom	2020	applied	'CORVINAS'

First sold in Spain in August 2020.

Description: Ean Blackwell, NSW 2000

Details of Application

Application Number	2015/093
Variety Name	‘Verodita’
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	13 May 2015
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW, 2000, Australia
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA3412
Location	Naktuinbouw, ROELOFARENDVSVEEN, The Netherlands
Descriptor	TP/13/5
Period	2015
Conditions	In accordance with TP/13/5
Trial Design	In accordance with TP/13/5
Measurements	In accordance with TP/13/5
RHS Chart - edition	

Origin and Breeding

Controlled pollination: A modified line and a pedigree selection method was used to select ‘Verodita’ out of a cross between ‘Maximus’ and ‘Silvinas’. Main selection criteria: *Bremia* resistance, anthocyanin coloration and no tipburn. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	Cos Lettuce (Roman lettuce)
Leaf	anthocyanin coloration	absent
Plant	time of beginning of bolting	very late
Plant	resistance to downy mildew (<i>Bremia lactucae</i>)	present
	Bl: 16	

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
‘Crunchita’	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
---------	-------------------------------	--	---	----------

'SALVIUS'	leaf	blistering	very weak to weak	strong
-----------	------	------------	-------------------	--------

'SALVIUS'	head	density	dense to very dense	dense
-----------	------	---------	---------------------	-------

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Verodita'	'Crunchita'
<input type="checkbox"/> *Seed: colour	black	white
<input type="checkbox"/> *Seedling: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	erect to semi-erect	
<input type="checkbox"/> Leaf blade: division	entire	
<input type="checkbox"/> *Plant: diameter	medium	
<input type="checkbox"/> *Plant: head formation	closed head	
<input type="checkbox"/> Head: degree of overlapping of upper part of leaves (varieties with closed head formation only)	strong to very strong	
<input type="checkbox"/> Head: density	dense to very dense	
<input type="checkbox"/> Head: size	medium to large	
<input type="checkbox"/> *Head: shape in longitudinal section	narrow elliptic	
<input type="checkbox"/> Leaf: thickness	thick	
<input type="checkbox"/> Leaf: attitude at harvest maturity	erect to semi-erect	
<input type="checkbox"/> *Leaf: shape	obovate	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input type="checkbox"/> *Leaf: hue of green colour of outer leaves	absent	
<input type="checkbox"/> *Leaf: intensity of colour of outer leaves	medium to dark	
<input type="checkbox"/> *Leaf: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: glossiness of upper side	very weak to weak	
<input checked="" type="checkbox"/> *Leaf: blistering	very weak to weak	medium
<input type="checkbox"/> Leaf: size of blisters	very small to small	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	weak	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	present	
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	very shallow to shallow	
<input type="checkbox"/> Leaf blade: density of incisions on margin on apical part	sparse	
<input type="checkbox"/> Leaf blade: type of incisions on apical part (varieties with shallow incisions on margin on apical part only)	sinuate	
<input type="checkbox"/> Leaf blade: venation	not flabellate	

<input type="checkbox"/> Axillary: sprouting	weak
<input type="checkbox"/> Time of: harvest maturity	late
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late
<input type="checkbox"/> Plant: fasciation	absent
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:2	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:5	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:7	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:12	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:14	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:15	present
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:18	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	absent
<input type="checkbox"/> Resistance to: <i>Nasonovia ribisnigri</i> biotype Nr:0	present

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Verodita'	'Crunchita'
<input type="checkbox"/> Resistance to : Downy mildew Isolate Bl: 32	present	
<input type="checkbox"/> Resistance to : Downy mildew Isolate Bl: 28	present	
<input type="checkbox"/> Resistance to : Downy mildew Isolate Bl: 29	present	
<input type="checkbox"/> Resistance to : Downy mildew Isolate Bl: 30	present	
<input type="checkbox"/> Resistance to : Downy mildew Isolate Bl: 31	absent	

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2014	Granted	'VERODITA'
EU	2014	Granted	'VERODITA'

First sold in Australia on 7th Jul 2014 and in USA on 8th Aug 2014

Description: Arie Baelde, Rijk Zwaan Australia Pty. Ltd., Daylesford, VIC

Details of Application

Application Number	2014/004
Variety Name	'Gradara'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Synonym	41-112RZ
Accepted Date	03 Feb 2014
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW, 2000, Australia
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA03211
Location	Naktuinbouw, ROELOFARENDVSVEEN, The Netherlands
Descriptor	TP/13/5
Period	2013
Conditions	In accordance with TP/13/5
Trial Design	In accordance with TP/13/5
Measurements	In accordance with TP/13/5
RHS Chart - edition	

Origin and Breeding

Controlled pollination: A modified line and a pedigree selection method was used to select 'Gradara' (41-112 RZ) out of a cross between unnamed Rijk Zwaan breeding line with advanced resistance to *Bremia lactucae* and 'QUINTUS RZ'. Main Bremia- and Nasonovia-resistance, blond color, compactness. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/PlantContext		State of Expression in Group of Varieties
Part		
Plant	type	Cos Lettuce (Roman lettuce)
Seed	color	white
Leaf	anthocyanin coloration	absent
Plant	time of beginning of bolting	very late
Plant	resistance to Isolate Bl: 16	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Nemona'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate	State of Expression in	Comments

		Variety	Comparator Variety
'Quintus' (41-Resistance to 93 RZ)	Isolate Bl: 21,26 and 27	present	absent
'Avidius' (41-Resistance to 21 RZ)	Nasonovia ribisnigri Nr:0	present	absent

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Gradara'	'Nemona' (41-177 RZ)
<input type="checkbox"/> *Seed: colour	white	
<input type="checkbox"/> *Seedling: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	erect to semi-erect	
<input type="checkbox"/> Leaf blade: division	entire	
<input type="checkbox"/> *Plant: diameter	medium	
<input type="checkbox"/> *Plant: head formation	closed head	
<input type="checkbox"/> Head: degree of overlapping of upper part of leaves (varieties with closed head formation only)	medium	
<input type="checkbox"/> Head: density	medium	
<input type="checkbox"/> Head: size	medium	
<input type="checkbox"/> *Head: shape in longitudinal section	narrow elliptic	
<input type="checkbox"/> Leaf: thickness	medium to thick	
<input type="checkbox"/> Leaf: attitude at harvest maturity	erect	
<input type="checkbox"/> *Leaf: shape	medium elliptic	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input type="checkbox"/> *Leaf: hue of green colour of outer leaves	absent	
<input checked="" type="checkbox"/> *Leaf: intensity of colour of outer leaves	medium	dark
<input type="checkbox"/> *Leaf: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: glossiness of upper side	weak to medium	
<input type="checkbox"/> *Leaf: blistering	medium to strong	
<input type="checkbox"/> Leaf: size of blisters	small	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	absent or very weak	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	absent	
<input type="checkbox"/> Leaf blade: venation	not flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> Time of: harvest maturity	very late	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late	
<input type="checkbox"/> Plant: fasciation	present	
<input type="checkbox"/> Plant: intensity of fasciation	weak to medium	

<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:2	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:5	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:7	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:12	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:14	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:15	present
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:18	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	absent
<input type="checkbox"/> Resistance to: Nasonovia ribisnigri biotype Nr:0	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
----------------	-------------	---------------	---------------------

The Netherlands	2012	Granted	‘Gradara’
EU	2013	Granted	‘Gradara’

First sold in Australia and Italy on 1st Jul 2013 as ‘41-112 RZ’

Description: Arie Baelde, Rijk Zwaan Australia Pty. Ltd., Musk, Vic 3461

Details of Application

Application Number	2014/115
Variety Name	'EXPONENT'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	01 Aug 2014
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., DE Lier, The Netherlands
Agent	Rijk Zwaan Australia Pty Ltd, Musk, Vic 3461
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA03243
Location	Naktuinbouw, ROELOFARENDSVEEN, The Netherlands
Descriptor	TP/13/5
Period	2013
Conditions	according to CPVO- TP/13/5
Trial Design	as per CPVO test report SLA03243
Measurements	as per CPVO test report SLA03243
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: A modified line and a pedigree selection method was used to select 'EXPONENT' (79-05 RZ) out of a cross between 'EXPLORE' and a Rijk Zwaan breeding line with advanced resistance to *Bremia lactucae*. Main selection criteria: *Bremia*- and *Nasonovia*-resistance, green color, incision depth, LMV resistance. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/PlantPart	Context	State of Expression in Group of Varieties
Plant	type	cutting or gathering lettuce
Seed	color	white
Leaf	anthocyanin coloration	absent
Plant	time of beginning of bolting	very late
Plant	resistance to Isolate Bl: 16	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Expedition'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from

one or more of the comparators are marked with X

Organ/Plant Part: Context	'EXPONENT'	'Expedition'
<input type="checkbox"/> *Seed: colour	white	
<input type="checkbox"/> *Seedling: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	semi-erect	
<input type="checkbox"/> Leaf blade: division	divided	
<input type="checkbox"/> *Plant: diameter	medium to large	
<input type="checkbox"/> *Plant: head formation	no head	
<input type="checkbox"/> Leaf: thickness	thin	
<input type="checkbox"/> Leaf: attitude at harvest maturity	semi-erect	
<input type="checkbox"/> *Leaf: shape	transverse broad elliptic	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input type="checkbox"/> *Leaf: hue of green colour of outer leaves	absent	
<input type="checkbox"/> *Leaf: intensity of colour of outer leaves	dark	
<input type="checkbox"/> *Leaf: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: glossiness of upper side	medium	
<input type="checkbox"/> *Leaf: blistering	absent or very weak	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	strong	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	present	
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	medium	
<input checked="" type="checkbox"/> *Leaf blade: density of incisions on margin on apical part	medium to dense	dense
<input type="checkbox"/> Leaf blade: venation	flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> Time of: harvest maturity	medium	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late	
<input type="checkbox"/> Plant: fasciation	present	
<input type="checkbox"/> Plant: intensity of fasciation	strong	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:2	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:5	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:7	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:12	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia</i>	present	

<i>lactucae</i>) Isolate BI:14	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:15	present
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:18	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	present
<input type="checkbox"/> Resistance to: <i>Nasonovia ribisnigri</i> biotype Nr:0	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2013	granted	'EXPONENT'
EU	2015	granted	'EXPONENT'

First sold in USA on 11th Oct 2013 as 'EXPONENT' and in Australia on 21st Oct 2013 as 'EXPONENT'

Description: Arie Baelde, Rijk Zwaan Australia Pty. Ltd., Musk, VIC

Details of Application

Application Number	2020/300
Variety Name	'OUTBEX'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	3 Jun 2022
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Rijk Zwaan Australia Pty. Ltd., Musk, Victoria
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA4303
Location	Naktuinbouw, ROELOFARENDSEVEEN, The Netherlands
Descriptor	TP/13/6 Rev
Period	2019
Conditions	n/a
Trial Design	In accordance with TP/13/6 Rev
Measurements	In accordance with TP/13/6 Rev
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: We used a modified line and a pedigree selection method to select 'Outbex' out of a cross between internal RZ breeding line 680813 with the KNOX trait and internal RZ breeding line 680850 with LMV:1 resistance. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Seed	colour	black
Plant	time of beginning of bolting	very late
Plant	resistance to <i>Bremia lactucae</i> Isolate Bl:16EU	present
Plant	resistance to lettuce mosaic virus (LMV) Strain Ls 1	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Codex'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'OUTBEX'	'Codex'
<input type="checkbox"/> *Seed: colour	black	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	semi-erect	

<input type="checkbox"/> *Plant: diameter	small to medium
<input type="checkbox"/> Leaf: thickness	very thin
<input type="checkbox"/> Leaf: attitude at harvest maturity	semi-erect
<input type="checkbox"/> *Leaf: anthocyanin colouration	present
<input checked="" type="checkbox"/> *Leaf: intensity of anthocyanin colouration	strong to very strong very strong
<input type="checkbox"/> Leaf: glossiness of upper side	medium to strong
<input type="checkbox"/> *Leaf: blistering	very weak to weak
<input type="checkbox"/> Leaf: size of blisters	very small to small
<input checked="" type="checkbox"/> *Leaf blade: degree of undulation of margin	weak to medium medium to strong
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	present
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	deep
<input type="checkbox"/> Leaf blade: density of incisions on margin on apical part	sparse to medium
<input type="checkbox"/> Leaf blade: venation	flabellate
<input type="checkbox"/> Axillary: sprouting	absent or very weak
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late
<input type="checkbox"/> Plant: fasciation	absent
<input type="checkbox"/> Plant: intensity of fasciation	very weak
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:2	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:5	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:7	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:12	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:14	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:15	present
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:16	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:17	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:18	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:20	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:21	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:22	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:23	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:24	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present

<input type="checkbox"/>	Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	present
<input type="checkbox"/>	Resistance to: Nasonovia ribisnigri biotype Nr:0	present

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘OUTBEX’	‘Codex’
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:30	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:31	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:32	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:33	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:34	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:35	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:29	present	
<input checked="" type="checkbox"/> Leaf: hue of anthocyanin coloration	reddish	purplish

Prior Applications and Sales:

Country	Year	Status	Name Applied
NL	2019	granted	‘OUTBEX’
EU	2019	granted	‘OUTBEX’
GB	2019	granted	‘OUTBEX’

First sold in Australia on 23rd Dec 2019 as ‘OUTBEX’ and in the Netherlands on 3rd Apr 2020 as ‘OUTBEX’

Description: **Timothy March**, Rijk Zwaan Australia Pty. Ltd., Musk, Vic 3461

Details of Application

Application Number	2020/289
Variety Name	‘Rainey’
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	20 Jan 2021
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA4177
Location	Naktuinbouw, ROELOFARENDSEVEEN, The Netherlands
Descriptor	TP/13/6 Rev.
Period	2019
Conditions	In accordance with TP/13/6
Trial Design	In accordance with TP/13/6
Measurements	In accordance with TP/13/6
RHS Chart - edition	

Origin and Breeding

Controlled pollination: A modified line and a pedigree selection method was used to select ‘Rainey’ out of a cross between ‘Ralph’ and internal RZ breeding line 663600 with advanced resistance to *Bremia lactucae*. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Seed	colour	white
Leaf	anthocyanin coloration	absent or very weak
Plant	resistance to <i>Bremia lactucae</i> isolate Bl:29EU	present
Plant	resistance to <i>Bremia lactucae</i> isolate Bl:16EU	present
Plant	time of beginning of bolting	late to very late
Plant	type	gem type

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
‘Fanugo’	
<u>Variety Description and Distinctness</u> - Characteristics which distinguish the candidate from one or more of the comparators are marked with X	
Organ/Plant Part: Context	‘Rainey’ ‘Fanugo’

<input type="checkbox"/> *Seed: colour	white	
<input checked="" type="checkbox"/> *Plant: diameter	medium	small to medium
<input type="checkbox"/> Head: size	medium	
<input type="checkbox"/> *Head: shape in longitudinal section	broad elliptic	
<input type="checkbox"/> Leaf: thickness	medium	
<input type="checkbox"/> *Leaf: shape	circular	
<input type="checkbox"/> Leaf: glossiness of upper side	medium	
<input type="checkbox"/> *Leaf: blistering	strong	
<input checked="" type="checkbox"/> *Leaf: intensity of green colour	medium to dark	dark
<input type="checkbox"/> Leaf: size of blisters	small to medium	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	absent or very weak	
<input type="checkbox"/> Leaf blade: venation	not flabellate	
<input type="checkbox"/> Axillary: sprouting	medium	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	late to very late	
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	medium	
<input type="checkbox"/> Leaf: attitude	erect to semi-erect	
<input type="checkbox"/> Leaf: number of divisions	absent or very few	
<input type="checkbox"/> Leaf: shape of tip (Only varieties with Leaf: number of divisions: absent or very few)	rounded	
<input type="checkbox"/> Leaf: anthocyanin coloration	absent or very weak	
<input type="checkbox"/> Leaf: colour	green	
<input type="checkbox"/> Leaf: thickness	medium	
<input type="checkbox"/> Leaf: undulation of margin	absent or very weak	
<input type="checkbox"/> Head: density	medium	
<input type="checkbox"/> Time of harvest maturity	medium	
<input type="checkbox"/> Time of beginning of bolting	late to very late	
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:2	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:5	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:7	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:12	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:14	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:15	present	
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia</i>	present	

lactucae) Isolate Bl:16

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:17

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:18

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:20

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:21

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:22

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:23

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:24

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:25

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl: 26

Resistance to: downy mildew (*Bremia lactucae*) present

Isolate Bl:27

Resistance to: lettuce mosaic virus (LMV) present

Strain Ls 1

Resistance to: *Nasonovia ribisnigri* biotype present

Nr:0

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Rainey'	'Fanugo'
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:30	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:31	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:32	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:33	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:35	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:29	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate Bl:34	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
NL	2019	granted	'Rainey'
EU	2019	granted	'Rainey'
GB	2019	pending	'Rainey'

First sold in Spain on 2nd Sep 2019 as 'e 41-337 RZ' and in Australia on 2nd Dec 2019 as 'Rainey'

Description: Ean Blackwell, Spruson & Ferguson, Darling Park, Sydney, NSW 2000

Details of Application

Application Number	2020/265
Variety Name	'MULTIRED 134'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	18 Jan 2021
Applicant	Nunhems B.V., Napoleonsweg 152, Limburg, 6083 AB, The Netherlands
Agent	Spruson & Ferguson, GPO Box 3898, Sydney, NSW
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA4384
Location	Naktuinbouw, ROELOFARENDVSVEEN, The Netherlands
Descriptor	TP/13/6 Rev
Period	2020-2021
Conditions	n/a
Trial Design	In accordance with TP/13/6 Rev
Measurements	In accordance with TP/13/6 Rev
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: After a cross was made between the parent varieties, several of the F1 plants were self pollinated. From the second until the sixth generation, pedigree selection was performed. From the seventh until the eighth generation, line selection was performed.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	oakleaf type
Plant	culture type	in the open
Seed	colour	white
Leaf	anthocyanin coloration	very strong
Plant	time of beginning of bolting	very late
Plant	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
Plant	resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Multired 4'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
---------	-------------------------------	--	---	----------

'Multired 144' Seed: colour white black

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'MULTIRED 134'	'Multired 4'
<input type="checkbox"/> *Seed: colour	white	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	semi-erect	
<input type="checkbox"/> *Plant: diameter	small	
<input type="checkbox"/> Leaf: thickness	very thin	
<input type="checkbox"/> *Leaf: anthocyanin colouration	present	present
<input checked="" type="checkbox"/> Leaf: glossiness of upper side	strong	medium to strong
<input type="checkbox"/> *Leaf: blistering	weak	
<input type="checkbox"/> Leaf: size of blisters	very small to small	
<input checked="" type="checkbox"/> *Leaf blade: degree of undulation of margin	weak	very weak to weak
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	shallow	
<input type="checkbox"/> Leaf blade: density of incisions on margin on apical part	sparse	
<input type="checkbox"/> Leaf blade: venation	flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late	
<input type="checkbox"/> Plant: fasciation	absent	
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:16	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:17	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:20	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:21	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:22	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:23	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:24	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:25	present	

<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: <i>Nasonovia ribisnigri</i> biotype Nr:0	absent
Characteristics Additional to the Descriptor/TG	
Organ/Plant Part: Context	‘MULTIRED 134’ ‘Multired 4’
<input type="checkbox"/> Resistance to : <i>Bremia factucae</i> (BI) isolate BI: 29EU	present
<input type="checkbox"/> Resistance to : <i>Bremia factucae</i> (BI) isolate BI: 31EU	present
<input type="checkbox"/> Resistance to : <i>Bremia factucae</i> (BI) isolate BI: 33EU	present
<input type="checkbox"/> Leaf: anthocyanin coloration	very strong very strong
<input checked="" type="checkbox"/> Leaf: hue of anthocyanin coloration	purplish reddish

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2022	Applied	‘MULTIRED 134’
EU	2018	Applied	‘MULTIRED 134’
The Netherlands	2020	Granted	‘MULTIRED 134’
Norway	2019	Applied	‘MULTIRED 134’
Switzerland	2019	Granted	‘MULTIRED 134’
United Kingdom	2019	Applied	‘MULTIRED 134’

First sold in Belgium in December 2018

Description: Ean Blackwell, Spruson & Ferguson, Sydney, NSW

Details of Application

Application Number	2016/078
Variety Name	'Barlach'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	01 Jul 2016
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA 3496
Location	Naktuinbouw, ROELOFARENDSEVEEN, The Netherlands
Descriptor	TP/13/5
Period	2015
Conditions	In accordance with TP/13/5
Trial Design	In accordance with TP/13/5
Measurements	In accordance with TP/13/5

RHS Chart - edition**Origin and Breeding**

Controlled pollination: Main selection criteria: *Bremia* resistance, anthocyanin coloration and no tipburn We used a modified line and a pedigree selection method to select 'Barlach' (79-246 RZ) out of a cross between two different Rijk Zwaan breeding lines with advanced resistance to *Bremia lactucae*. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	cutting or gathering lettuce
Seed	colour	black
Leaf	anthocyanin coloration	present
Plant	time of beginning of bolting	late
Plant	resistance to isolate BI:16	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Klee'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Seurat'	time	of late beginning of bolting	very late	
'Gaugin'	resistance to Downy Mildew 16	isolate Bl: present	absent	
'Renoir'	Time of	beginning late of bolting	late to very late	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Barlach'	'Klee'
<input type="checkbox"/> *Seed: colour	black	
<input type="checkbox"/> *Seedling: anthocyanin colouration	present	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	semi-erect	prostrate
<input type="checkbox"/> Leaf blade: division	entire	
<input checked="" type="checkbox"/> *Plant: diameter	small	small to medium
<input type="checkbox"/> *Plant: head formation	no head	
<input type="checkbox"/> Leaf: thickness	very thin to thin	
<input checked="" type="checkbox"/> Leaf: attitude at harvest maturity	semi-erect to horizontal	semi-erect
<input type="checkbox"/> *Leaf: shape	medium elliptic	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input type="checkbox"/> *Leaf: hue of green colour of outer leaves	reddish	
<input type="checkbox"/> *Leaf: intensity of colour of outer leaves	very dark	
<input type="checkbox"/> *Leaf: anthocyanin colouration	present	
<input type="checkbox"/> *Leaf: intensity of anthocyanin colouration	very strong	
<input type="checkbox"/> Leaf: distribution of anthocyanin	entire	
<input type="checkbox"/> Leaf: kind of anthocyanin distribution	diffused and in spots	
<input type="checkbox"/> Leaf: glossiness of upper side	medium	
<input type="checkbox"/> *Leaf: blistering	weak to medium	
<input type="checkbox"/> Leaf: size of blisters	small	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	absent or very weak	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	absent	
<input type="checkbox"/> Leaf blade: venation	not flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> Time of: harvest maturity	medium	
<input type="checkbox"/> *Time of: beginning of bolting under long	late	

day conditions

<input type="checkbox"/> Plant: fasciation	present
<input type="checkbox"/> Plant: intensity of fasciation	very strong
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:2	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:5	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:7	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:12	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:14	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:15	present
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:18	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	absent
<input type="checkbox"/> Resistance to: Nasonovia ribisnigri biotype Nr:0	present

Characteristics Additional to the Descriptor/TG**Organ/Plant Part: Context****‘Barlach’****‘Klee’**

- Resistance to: Downy mildew Isolate Bl:33 present
- Resistance to : Downy mildew Isolate Bl: 32 present
- Resistance to : Downy mildew Isolate Bl: 28 present
- Resistance to : Downy mildew Isolate Bl: 29 present
- Resistance to : Downy mildew Isolate Bl: 30 present
- Resistance to : Downy mildew Isolate Bl: 31 present

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2014	granted	'Barlach'
EU	2015	granted	'Barlach'

First sold in Germany on 15th Jan 2015 and in Australia on 5th May 2015

Description: Arie Baelde, Rijk Zwaan Australia Pty. Ltd., Musk, Vic 3461

Details of Application

Application Number	2020/303
Variety Name	'JALONAS'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	3 Jun 2022
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA4173
Location	Naktuinbouw, ROELOFARENDSVEEN, The Netherlands
Descriptor	TP/13/6
Period	2019
Conditions	n/a
Trial Design	In accordance with TP/13/6
Measurements	In accordance with TP/13/6
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: Rijk Zwaan Zaadteelt en Zaadhandel B.V. We used a modified line and a pedigree selection method to select 'Jalonas' out of a cross between internal RZ breeding line 661840 and internal RZ breeding line 53001 with advanced resistance to *Bremia lactucae*. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Resistance to	<i>Bremia lactucae</i> isolate BI: 29EU	present
Seed	colour	black
Leaf	anthocyanin coloration	absent or very weak
Plant	Time of beginning of bolting	very late
Plant	Resistance to <i>Bremia lactucae</i> isolate BI:16EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Amenas'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or

more of the comparators are marked with X

Organ/Plant Part: Context	'JALONAS'	'Amenas'
<input type="checkbox"/> *Seed: colour	black	
<input type="checkbox"/> Leaf: attitude at 10-12 leaf stage	semi-erect	
<input type="checkbox"/> *Plant: diameter	large to very large	
<input type="checkbox"/> Head: degree of overlapping of upper part of leaves (varieties with closed head formation only)	strong	
<input type="checkbox"/> Head: density	very dense	
<input type="checkbox"/> Head: size	medium to large	
<input type="checkbox"/> *Head: shape in longitudinal section	circular	
<input type="checkbox"/> Leaf: thickness	thick	
<input type="checkbox"/> Leaf: shape of tip	rounded	
<input checked="" type="checkbox"/> *Leaf: intensity of colour of outer leaves	light to medium	medium
<input type="checkbox"/> *Leaf: anthocyanin colouration	absent	
<input checked="" type="checkbox"/> Leaf: glossiness of upper side	weak	weak to medium
<input checked="" type="checkbox"/> *Leaf: blistering	weak to medium	weak
<input type="checkbox"/> Leaf: size of blisters	small	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	weak	
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	shallow	
<input type="checkbox"/> Leaf blade: density of incisions on margin on apical part	sparse to medium	
<input type="checkbox"/> Leaf blade: venation	flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	very late	
<input type="checkbox"/> Plant: intensity of fasciation	very weak	
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:16	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:17	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:20	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:21	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:22	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:23	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate Bl:24	present	

<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:26	present
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/> Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	absent
<input type="checkbox"/> Resistance to: Nasonovia ribisnigri biotype Nr:0	present

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘JALONAS’	‘Amenas’
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:35	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:36	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:30	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:31	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:32	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:33	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:34	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:35	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:29	present	
<input type="checkbox"/> Resistance to: Downy mildew Isolate BI:36	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
NL	2019	granted	‘JALONAS’
EU	2019	granted	‘JALONAS’
GB	2019	granted	‘JALONAS’

First sold in Spain on 15th July 2019 and in Australia on 17th January 2020

Description: **Timothy March**, Rijk Zwaan Australia Pty. Ltd., Musk, Vic 3461

Details of Application

Application Number	2020/302
Variety Name	'ZAC'
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	02 Jun 2022
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	
Location	Naktuinbouw, ROELOFARENDSEVEEN, The Netherlands
Descriptor	CPVO - TP/13/6 Rev
Period	SLA4302
Conditions	In accordance with TP/13/6 Rev.
Trial Design	In accordance with TP/13/6 Rev.
Measurements	In accordance with TP/13/6 Rev.
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: A modified line and a pedigree selection method was utilized to select 'Zac' out of a cross between a commercial variety and an internal Rijk Zwaan breeding line with relevant traits. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	multi-divided type
Seed	colour	black
Leaf	anthocyanin coloration	very strong
Bolting	Time of beginning of bolting	very late
Plant	<i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
Plant	Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Stefano'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'ZAC'	'Stefano'
<input type="checkbox"/> Seed: colour	black	
<input type="checkbox"/> Plant: diameter	small to medium	small to medium
<input type="checkbox"/> Plant: degree of overlapping of upper part of leaves	absent or weak	
<input type="checkbox"/> Plant: number of leaves	medium	
<input type="checkbox"/> Leaf: attitude	semi-erect	
<input type="checkbox"/> Leaf: number of divisions	medium	
<input type="checkbox"/> Leaf: anthocyanin colouration	very strong	
<input type="checkbox"/> Leaf: hue of anthocyanin colouration	purplish	
<input type="checkbox"/> Leaf: area covered by anthocyanin colouration	large to very large	
<input type="checkbox"/> Leaf: glossiness of upper side	strong	
<input type="checkbox"/> Leaf: thickness	very thin	
<input type="checkbox"/> Leaf: blistering	weak to medium	
<input type="checkbox"/> Leaf: size of blisters	small	
<input type="checkbox"/> Leaf: undulation of margin	weak to medium	
<input type="checkbox"/> Leaf: depth of secondary incisions of margin	shallow	
<input checked="" type="checkbox"/> Leaf: density of incisions of margin	sparse to medium	medium
<input type="checkbox"/> Bolting: time of beginning of bolting	very late	
<input type="checkbox"/> Stem: Axillary sprouting	absent or weak	
<input type="checkbox"/> Bolting stem: fasciation	absent or very weak	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 17EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 20EU	present	
<input type="checkbox"/> Leaf: venation	flabellate	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 21EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 22EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 23EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 24EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 25EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 26EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present	

27EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
29EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
30EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
31EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
33EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
35EU			
<input type="checkbox"/> Resistance to: Lettuce mosaic virus (LMV) pathotype II	absent		
<input type="checkbox"/> Resistance to: <i>Nasonovia ribisnigri</i> (Nr) biotype Nr: 0	present		
<input type="checkbox"/> Leaf: type of incisions of margin			
<input type="checkbox"/> Leaf: depth of incisions of margin	medium		
<input checked="" type="checkbox"/> Leaf: wound-induced discoloration	late		early
<input type="checkbox"/> Leaf: depth of secondary incisions of margin	shallow		

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘ZAC’	‘Stefano’
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present	
32EU		

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2019	granted	‘Zac’
EU	2019	granted	‘Zac’
GB	2019	pending	‘Zac’

First sold in Germany as ‘79-920 RZ’ on 16th Dec 2019 and in Australia as ‘79-920 RZ’ on 20th Jan 2020

Description: **Ean Blackwell**, Spruson & Ferguson, Darling Park, Sydney, NSW 2000

Details of Application

Application Number	2020/304
Variety Name	‘VINCAS’
Genus Species	<i>Lactuca sativa</i>
Common Name	Lettuce
Accepted Date	03 Jun 2022
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	SLA4203
Location	Naktuinbouw, ROELOFARENDSVEEN, The Netherlands
Descriptor	TP/13/6 Rev
Period	2019
Conditions	In accordance with TP/13/6 Rev
Trial Design	In accordance with TP/13/6 Rev
Measurements	In accordance with TP/13/6 Rev
RHS Chart - edition	

Origin and Breeding

Controlled pollination: A modified line and a pedigree selection method was used to select ‘Vincas’ out of a cross between two internal Rijk Zwaan breeding lines with advanced resistance to *Bremia lactucae* and the KNOX trait. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/PlantContext	State of Expression in Group of Varieties
Part	
Plant type	multi-divided type
Seed colour	white
Leaf anthocyanin coloration	absent or very weak
Time of beginning of bolting	very late
Plant Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU	present
Plant Resistance to <i>Bremia lactucae</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
‘Viatic’	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in	State of Expression	Comments
----------------	--------------------------------------	-------------------------------	----------------------------	-----------------

			Candidate Variety	in Comparator Variety
'VILAR'	Leaf	wound induced discoloration of leaf	later	earlier
'VILAR'	Plant	resistance to	present	absent
Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X				
Organ/Plant Part: Context			'VINCAS'	'Viatic'
<input type="checkbox"/>	Seed: colour		white	
<input type="checkbox"/>	Plant: diameter		medium	
<input type="checkbox"/>	Plant: degree of overlapping of upper part of leaves		absent or weak	
<input type="checkbox"/>	Plant: number of leaves		medium	
<input type="checkbox"/>	Leaf: attitude		semi-erect	
<input type="checkbox"/>	Leaf: number of divisions		medium	
<input type="checkbox"/>	Leaf: anthocyanin colouration		absent or very weak	
<input checked="" type="checkbox"/>	Leaf: colour		yellowish green	green
<input type="checkbox"/>	Leaf: intensity of green colour		light to medium	
<input type="checkbox"/>	Leaf: glossiness of upper side		weak	
<input type="checkbox"/>	Leaf: thickness		thin	
<input type="checkbox"/>	Leaf: blistering		absent or very weak	
<input type="checkbox"/>	Leaf: undulation of margin		strong to very strong	
<input type="checkbox"/>	Leaf: density of incisions of margin		medium	
<input type="checkbox"/>	Leaf: depth of secondary incisions of margin		shallow	
<input type="checkbox"/>	Bolting: time of beginning of bolting		very late	
<input type="checkbox"/>	Stem: Axillary sprouting		absent or weak	
<input type="checkbox"/>	Bolting stem: fasciation		weak	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 16EU		present	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 17EU		present	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 20EU		present	
<input type="checkbox"/>	Leaf: venation		flabellate	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 21EU		present	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 22EU		present	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 23EU		present	
<input type="checkbox"/>	Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:		present	

24EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
25EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
26EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
27EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
29EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
30EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
31EU			
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present		
33EU			
<input checked="" type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl:	present	absent	
35EU			
<input type="checkbox"/> Resistance to: Lettuce mosaic virus (LMV) pathotype II	present		
<input type="checkbox"/> Resistance to: <i>Nasonovia ribisnigri</i> (Nr) biotype Nr: 0	present		
<input type="checkbox"/> Leaf: depth of incisions of margin	deep		

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	‘VINCAS’	‘Viatic’
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 32EU	present	
<input type="checkbox"/> Resistance to: <i>Bremia lactucae</i> (Bl) isolate Bl: 36EU	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
NL	2019	granted	‘VINCAS’
EU	2019	granted	‘VINCAS’
GB	2020	granted	‘VINCAS’

First sold in Australia on 23rd Dec 2019 as ‘VINCAS’ and in Germany on 12th Jun 2020 as ‘VINCAS’

Description: Ean Blackwell, Spruson & Ferguson, Darling Park, Sydney, NSW 2000

Details of Application

Application Number	2019/187
Variety Name	'MULTIGREEN 114'
Genus Species	<i>Lactuca sativa</i> L.
Common Name	Lettuce
Accepted Date	23 Sep 2019
Applicant	Nunhems B.V., 152 Napoleonsweg Nunhem 608, The Netherlands
Agent	Spruson & Ferguson, Sydney, NSW
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherland
Overseas Data Reference Number	SLA3975
Location	Naktuinbouw, ROELOFARENDVSVEEN, The Netherlands
Descriptor	TP/13/6
Period	2018
Conditions	n/a
Trial Design	In accordance with TP/13/6
Measurements	In accordance with TP/13/6
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: After an initial one-time cross was made between a maternal line variety and a proprietary breeding line parent, a number of F1 plants were self pollinated. From the second until the fifth generation, pedigree selection was performed. From the sixth until the eighth generation, line selection was performed.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	type	Multi-divided
Culture	type	in the open
Seed	colour	black
Leaf	anthocyanin coloration	absent or very weak
Bolting	time of beginning of bolting	medium to late
Plant	Resistance to <i>Bremia lactuca</i> (Bl) isolate Bl: 16EU	present
Plant	Resistance to <i>Bremia lactuca</i> (Bl) isolate Bl: 29EU	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Mesclita'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Expedition'	Seed colour	white	black	
'Exfiles'	Leaf blade: depth of incisions on margin on apical part	medium	deep	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'MULTIGREEN 114'	'Mesclita'
<input type="checkbox"/> *Seed: colour	black	
<input type="checkbox"/> Leaf blade: division	divided	
<input checked="" type="checkbox"/> *Plant: diameter	medium	small to medium
<input type="checkbox"/> Leaf: thickness	thin to medium	
<input type="checkbox"/> Leaf: attitude at harvest maturity	semi-erect	
<input type="checkbox"/> *Leaf: intensity of colour of outer leaves	medium to dark	
<input type="checkbox"/> *Leaf: anthocyanin colouration	absent	
<input type="checkbox"/> Leaf: glossiness of upper side	weak	weak
<input type="checkbox"/> *Leaf: blistering	absent or very weak	
<input type="checkbox"/> *Leaf blade: degree of undulation of margin	weak to medium	
<input type="checkbox"/> Leaf blade: incisions of margin on apical part	present	
<input type="checkbox"/> *Leaf blade: depth of incisions on margin on apical part	medium	
<input checked="" type="checkbox"/> Leaf blade: density of incisions on margin on apical part	dense	dense to very dense
<input type="checkbox"/> Leaf blade: venation	flabellate	
<input type="checkbox"/> Axillary: sprouting	absent or very weak	
<input type="checkbox"/> *Time of: beginning of bolting under long day conditions	medium to late	
<input type="checkbox"/> *Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:16	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:17	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:20	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:21	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:22	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:23	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:24	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:25	present	
<input type="checkbox"/> Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI: 26	present	

<input type="checkbox"/>	Resistance to: downy mildew (<i>Bremia lactucae</i>) Isolate BI:27	present
<input type="checkbox"/>	Resistance to: lettuce mosaic virus (LMV) Strain Ls 1	absent
<input type="checkbox"/>	Resistance to: <i>Nasonovia ribisnigri</i> biotype Nr:0	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2018	Granted	'MULTIGREEN 114'
Norway	2019	Granted	'MULTIGREEN 114'
The Netherlands	2018	Granted	'MULTIGREEN 114'
United Kingdom	2018	Granted	'MULTIGREEN 114'

First sold in the United Kingdom in Jan 2018

Description: Ean Blackwell, Spruson & Ferguson, Sydney, NSW.

Details of Application

Application Number	2020/106
Variety Name	‘Bonfire’
Genus Species	<i>Syzygium australe</i>
Common Name	Lilly Pilly
Synonym	Screen Master
Accepted Date	22 Jul 2020
Applicant	Reline Management Pty Ltd ATF The Cole Unit Trust, Banjup, WA 6164
Qualified Person	Philip Watkins

Details of Comparative Trial

Location	348 Beenyup Road, Banjup, WA 6164
Descriptor	National descriptor Lilly Pilly (<i>Acmena smithii/Syzygium sp</i>)
Period	May 2020 - June 2022
Conditions	Vegetatively propagated plants grown in pots located in full sun with same soil mix, fertiliser and irrigation
Trial Design	50 plants of each variety grown in split plots
Measurements	observations were made on plant parts taken from each of ten plants sampled at random.
RHS Chart - edition	1986

Origin and Breeding

Open pollination: In 2018 seed was collected from *Syzygium australe* variety ‘Resilience’ plants that been grown side by side with *Syzygium australe* variety ‘Winter Light’ plants to allow cross pollination between the varieties. In 2019 a single seedling growing amongst other seedlings which were grown from the seed collected in 2018, was discovered to have strong upright compact growth suited to hedging. This seedling also displayed orange red new growth. Vegetative cuttings were taken from this seedling and resultant plants were planted in pots in late 2019. All plants displayed same upright compact growth with orange red new growth. No off types were observed. Breeder: Reline Management Pty Ltd ATF The Cole Unit Trust, Banjup, WA 6164.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	strongly upright
Plant	height	medium
Stem	internode length	short - medium
Leaf	length/width ratio	medium
Leaf	shape of blade	lanceolate
Leaf	shape of cross section	concave
Leaf	shape of longitudinal section	convex
Mature leaf	colour	green
Newly emerged leaf	colour	red

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments	
'Bush Christmas'		
Organ/Plant Part: Context	'Bonfire'	'Bush Christmas'
<input type="checkbox"/> Plant: growth habit	strongly upright	strongly upright
<input type="checkbox"/> Plant: height	medium	medium
<input type="checkbox"/> Plant: branch density	dense	medium to dense
<input type="checkbox"/> Stem: branch angle	small to medium	small to medium
<input type="checkbox"/> Stem: internode length	short to medium	short to medium
<input type="checkbox"/> Stem: basal diameter	medium	medium
<input type="checkbox"/> Stem: colour of mature stem (RHS colour chart)	199A	199A
<input type="checkbox"/> Stem: colour of new growth (RHS colour chart)	183A	183A
<input type="checkbox"/> Leaf: blade length	short - medium	short - medium
<input type="checkbox"/> Leaf: blade width	narrow	narrow
<input type="checkbox"/> Leaf: blade length/width ratio	medium	medium
<input type="checkbox"/> Leaf: petiole length	short	short
<input type="checkbox"/> Leaf: shape of blade	lanceolate	lanceolate
<input type="checkbox"/> Leaf: shape of apex	acute	acute
<input type="checkbox"/> Leaf: shape of base	cuneate	cuneate
<input checked="" type="checkbox"/> Leaf: glossiness	medium	strong
<input type="checkbox"/> Leaf: shape of cross section	concave	concave
<input type="checkbox"/> Leaf: shape of longitudinal section	convex	convex
<input type="checkbox"/> Leaf: stiffness	medium	medium
<input type="checkbox"/> Leaf: prominence of midrib on lower surface	prominent	prominent
<input checked="" type="checkbox"/> Mature leaf: primary colour of upper side (RHS colour chart)	137A	137B
<input type="checkbox"/> Mature leaf: primary colour of lower side (RHS colour chart)	146B	146B
<input checked="" type="checkbox"/> Partly mature leaf: primary colour of upper side (RHS colour chart)	183A	200D
<input checked="" type="checkbox"/> Partly mature leaf: primary colour of lower side (RHS colour chart)	183B	152A
<input checked="" type="checkbox"/> Newly emerged: upper side (RHS colour chart)	187B	200D
<input type="checkbox"/> Leaf: variegation	absent	absent
<input type="checkbox"/> Leaf: petiole colour (RHS colour chart)	183A	183A

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Bonfire'	'Bush Christmas'
<input checked="" type="checkbox"/> Leaf: longitudinal twisting	present	absent
<input type="checkbox"/> Leaf: presence of Psyllid attack symptoms	absent	present
<input type="checkbox"/> Leaf: severity of Psyllid attack symptoms	absent - very weak	weak - medium

Prior Applications and Sales: Nil

Description: Philip Watkins, Port Douglas, QLD 4877

Details of Application

Application Number	2021/074
Variety Name	‘Tambit No.1’
Genus Species	<i>Citrus reticulata</i>
Common Name	Mandarin
Accepted Date	18 Nov 2021
Applicant	The Korean Rural Development Administration, Jeollabuk-do 54875, Korea
Agent	Spruson & Ferguson, Sydney, NSW 2000
Qualified Person	Michael Christie

Details of Comparative Trial

Overseas Testing Authority	Korea Seed & Variety Service (KSVS), Ministry of Agriculture, Food and Rural Affairs (MAFRA)
Overseas Data Reference Number	PBR Application No.: 102013000482, Grant No.: 6253
Location	300, Nongsaengmyeong-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, 54875, Republic of Korea
Descriptor	TG/201/1 Rev.
Period	May 2014 -May 2016
Conditions	n/a
Trial Design	In accordance with TG/201/1 Rev.
Measurements	In accordance with TG/201/1 Rev.
RHS Chart - edition	N/A

Origin and Breeding

Controlled-pollination: ‘Tambit No.1’ was germinated in the Applicant's facility in 2005 by sowing its seeds, which were obtained by crossing between a mother-plant variety (seed parent) and a father-plant variety (pollen parent) in 2004. ‘Tambit No.1’ was subjected to top grafting with satsuma mandarin as an intermediate rootstock in 2005 while simultaneously subjecting it to a cut grafting with trifoliolate orange. Fruit bearing began in 2010, and it passed the primary selection due to its excellent quality in the same year. The fruit was named ‘Jegam Na No. 23’ at the time of selection. The final selection was made in 2012, and ‘Jegam Na No. 23’ was selected as a new plant variety. Breeders: PARK, Jae-ho/ YUN, Su-hyun / KOH, Sang-woog / KIM, Min-ju/ CHOI, Young-hun / YANG, 1-ung / CHAE, Chi-won, National Institute of Horticultural and Herbal Science, Jeju-do, 63607, Republic of Korea.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	presence of neck	present
Fruit surface	predominant colour	dark orange
Fruit	time of maturity	late

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Nishinokaori'	
'Prince Kiyomi'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic in Candidate Variety	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Prince Kiyomi'	fruit: presence of neck	present	absent	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Tambit No.1'	'Nishinokaori'
<input type="checkbox"/> *Tree: growth habit	spreading	
<input type="checkbox"/> Tree: density of spines	intermediate	
<input checked="" type="checkbox"/> Tree: length of spines	medium	short
<input type="checkbox"/> Leaf blade: shape in cross section	straight or weakly concave	
<input type="checkbox"/> Leaf blade: twisting	intermediate	
<input type="checkbox"/> Leaf blade: blistering	absent or weak	
<input type="checkbox"/> Leaf blade: green colour	medium	
<input type="checkbox"/> Leaf blade: undulation of margin	absent or weak	
<input type="checkbox"/> Leaf blade: incisions of margin	crenate	
<input type="checkbox"/> Leaf blade: shape of apex	acute	
<input type="checkbox"/> Leaf blade: emargination at tip	present	
<input type="checkbox"/> Petiole: presence of wings	present	
<input type="checkbox"/> Petiole: width of wings (varieties with petiole wings present only)	narrow	
<input type="checkbox"/> Flower: length of stamens	medium	
<input type="checkbox"/> Anther: colour	light yellow	
<input type="checkbox"/> Style: length	medium	
<input type="checkbox"/> *Fruit: position of broadest part	at middle	
<input type="checkbox"/> Fruit: shape in transverse section	circular	
<input type="checkbox"/> *Fruit: general shape of proximal part	slightly rounded	
<input checked="" type="checkbox"/> *Fruit: presence of neck	present	absent
<input type="checkbox"/> Fruit: number of radial grooves at stalk end	intermediate	
<input type="checkbox"/> Fruit: length of radial grooves at stalk end	short	
<input type="checkbox"/> Fruit: depression at stalk attachment (necked varieties only)	absent or shallow	
<input checked="" type="checkbox"/> Fruit: presence of collar	present	absent

<input type="checkbox"/>	Fruit: abscission layer between floral disc and fruit	absent or weakly developed	
<input type="checkbox"/>	*Fruit: general shape of distal part	flattened	
<input checked="" type="checkbox"/>	*Fruit: presence of depression at distal end	absent	present
<input type="checkbox"/>	*Fruit: presence of areola	incomplete	
<input type="checkbox"/>	Fruit: type of areola	smooth	
<input type="checkbox"/>	Fruit: diameter of areola	small	
<input type="checkbox"/>	Fruit: presence of navel opening	absent	
<input type="checkbox"/>	Fruit: presence of radial grooves at distal end	absent	
<input checked="" type="checkbox"/>	*Fruit surface: predominant colours	dark orange	yellow orange
<input checked="" type="checkbox"/>	*Fruit surface: glossiness	strong	medium
<input checked="" type="checkbox"/>	Fruit surface: roughness	smooth	medium
<input type="checkbox"/>	Fruit surface: size of oil glands	larger ones interspersed by smaller ones	
<input type="checkbox"/>	Fruit surface: size of larger oil glands	medium	
<input type="checkbox"/>	Fruit surface: conspicuousness of larger oil glands	medium	
<input type="checkbox"/>	Fruit surface: presence of pitting and pebbling in oil glands	pitting present, pebbling absent	
<input type="checkbox"/>	Fruit surface: density of pitting (varieties with fruit surface: pitting on oil glands present only)	sparse	
<input checked="" type="checkbox"/>	*Fruit rind: thickness	thin	medium
<input type="checkbox"/>	*Fruit rind: adherence to flesh	weak	
<input checked="" type="checkbox"/>	Fruit rind: strength	medium	weak
<input type="checkbox"/>	Fruit rind: oiliness	medium	
<input type="checkbox"/>	Fruit rind: conspicuousness of oil glands on inner surface	absent or weakly conspicuous	
<input type="checkbox"/>	Fruit: colour of albedo	white	
<input type="checkbox"/>	Fruit: density of albedo	medium	
<input checked="" type="checkbox"/>	*Fruit: amount of albedo adhering to flesh	small	medium
<input type="checkbox"/>	Fruit: presence of albedo strands	present	
<input type="checkbox"/>	Fruit: amount of albedo strands	medium	
<input checked="" type="checkbox"/>	*Fruit: main colour of flesh	medium orange	light orange
<input checked="" type="checkbox"/>	Fruit: filling of core	dense	medium
<input checked="" type="checkbox"/>	Fruit: diameter of core	small	medium
<input type="checkbox"/>	Fruit: number of well developed segments	medium	
<input type="checkbox"/>	Fruit: strength of segment walls	medium	
<input type="checkbox"/>	Fruit: length of juice vesicles	medium	
<input type="checkbox"/>	Fruit: thickness of juice vesicles	medium	
<input type="checkbox"/>	Fruit: conspicuousness of juice vesicle walls	medium	
<input type="checkbox"/>	Fruit: coherence of juice vesicles	medium	

<input type="checkbox"/>	*Fruit: presence of navel (viewed internally)	absent or very rare	
<input type="checkbox"/>	Fruit: juiciness	medium	
<input checked="" type="checkbox"/>	*Fruit juice: total soluble solids	medium	low
<input checked="" type="checkbox"/>	Fruit juice: acidity	medium	low
<input type="checkbox"/>	Fruit: strength of fibre	medium	
<input checked="" type="checkbox"/>	Fruit: number of seeds (open pollination)	few	absent or very few
<input type="checkbox"/>	*Seed: polyembryony	present	
<input type="checkbox"/>	Seed: surface	wrinkled	
<input type="checkbox"/>	Seed: prominence of wrinkles (varieties with seed surface wrinkled only)	weak	
<input type="checkbox"/>	Seed: external colour	yellowish	
<input type="checkbox"/>	Seed: colour of inner seed coat	light brown	
<input type="checkbox"/>	Seed: colour of cotyledons (varieties with seed: polyembryony present only)	cream	
<input checked="" type="checkbox"/>	*Time of: maturity of fruit for consumption	late	early to medium
<input type="checkbox"/>	*Fruit: parthenocarpy	present	

Prior Applications and Sales:

Country	Year	Status	Name Applied
Korean	2013	Granted	'Tambit No.1'

First sale: Nil

Description: Michael Christie, NSW 2000.

Details of Application

Application Number	2021/077
Variety Name	'Minihyang'
Genus Species	<i>Citrus reticulata</i>
Common Name	Mandarin
Accepted Date	20 Jul 2021
Applicant	The Korean Rural Development Administration, 300, Nongsaengmyeong-ro, Deokjin-gu, Jeonju- si, Jeollabuk-do, 54875, Republic of Korea
Agent	Spruson & Ferguson, Sydney, NSW 2000
Qualified Person	Michael Christie

Details of Comparative Trial

Overseas Testing Authority	Korea Seed & Variety Service (KSVS), Ministry of Agriculture, Food and Rural Affairs (MAFRA)
Overseas Data Reference Number	PBR Application No.: 102016000333; Grant No.: 7781
Location	300, Nongsaengmyeong-ro, Deokjin-gu, Jeonju- si, Jeollabuk-do, 54875, Republic of Korea
Descriptor	TG/201/1 Rev.
Period	May 2017 -May 2019
Trial Design	In accordance with TG/201/1 Rev.
Measurements	In accordance with TG/201/1 Rev.
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: 'Minihyang' was developed via a cross of the seed parent and the pollen parent. Primary selection of F1 line was made in 2011. Characteristics were examined between 2011 to 2015 and final selection was made in 2015. 'Minihyang' was maintained by selfing. Breeders: YUN, Su-hyun / PARK, Jae-ho/ PARK, Suk-man/ KOH, Sang-woog / MOON, Young-eel / KANG, Seok-beom / CHOI, Young-hun / LEE, Dong-hun / KIM, Min-ju/ YANG, 1-ung, National Institute of Horticultural and Herbal Science, Jeju-do 63607, Korea.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	presence of neck	absent
Fruit surface	predominant colour(s)	medium orange
Fruit	time of maturity	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Kinokuni'	
'Ponkan'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Ponkan'	fruit: number of seeds (open pollination)	absent or very few	many	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Minihyang'	'Kinokuni'
<input checked="" type="checkbox"/> *Tree: growth habit	upright	spreading
<input checked="" type="checkbox"/> Tree: density of spines	intermediate	absent or sparse
<input type="checkbox"/> Tree: length of spines	short	
<input type="checkbox"/> Leaf blade: shape in cross section	straight or weakly concave	
<input type="checkbox"/> Leaf blade: twisting	absent or weak	
<input type="checkbox"/> Leaf blade: blistering	absent or weak	
<input checked="" type="checkbox"/> Leaf blade: green colour	medium	dark
<input type="checkbox"/> Leaf blade: undulation of margin	absent or weak	
<input type="checkbox"/> Leaf blade: incisions of margin	crenate	
<input type="checkbox"/> Leaf blade: shape of apex	acute	
<input type="checkbox"/> Leaf blade: emargination at tip	present	
<input type="checkbox"/> Petiole: presence of wings	absent	
<input type="checkbox"/> Flower: length of stamens	short	
<input checked="" type="checkbox"/> Anther: colour	light yellow	medium yellow
<input type="checkbox"/> Style: length	short	
<input type="checkbox"/> Infructescence: clustering of fruits	absent	
<input type="checkbox"/> *Fruit: position of broadest part	at middle	
<input type="checkbox"/> Fruit: shape in transverse section	circular	
<input type="checkbox"/> *Fruit: general shape of proximal part	flattened	
<input type="checkbox"/> *Fruit: presence of neck	absent	
<input checked="" type="checkbox"/> *Fruit: presence of depression at stalk end (varieties without fruit neck only)	absent	present
<input type="checkbox"/> Fruit: number of radial grooves at stalk end	absent or few	
<input type="checkbox"/> Fruit: length of radial grooves at stalk end	medium	
<input type="checkbox"/> Fruit: presence of collar	present	
<input type="checkbox"/> Fruit: abscission layer between floral	absent or weakly	

disc and fruit	developed	
<input type="checkbox"/> *Fruit: general shape of distal part	flattened	
<input type="checkbox"/> *Fruit: presence of depression at distal end	present	
<input type="checkbox"/> *Fruit: presence of areola	absent	
<input type="checkbox"/> Fruit: presence of navel opening	absent	
<input type="checkbox"/> Fruit: presence of radial grooves at distal end	absent	
<input type="checkbox"/> *Fruit surface: predominant colours	medium orange	
<input type="checkbox"/> *Fruit surface: glossiness	absent or very weak	
<input type="checkbox"/> Fruit surface: roughness	rough	
<input type="checkbox"/> Fruit surface: size of oil glands	all more or less the same size	
<input type="checkbox"/> Fruit surface: size of larger oil glands	small	
<input type="checkbox"/> Fruit surface: conspicuousness of larger oil glands	weak	
<input type="checkbox"/> Fruit surface: presence of pitting and pebbling in oil glands	pitting and pebbling present	
<input type="checkbox"/> Fruit surface: density of pitting (varieties with fruit surface: pitting on oil glands present only)	sparse	
<input type="checkbox"/> Fruit surface: density of pebbling (varieties with fruit surface: pebbling on oil glands present only)	medium	
<input type="checkbox"/> Fruit surface: degree of pebbling (varieties with fruit surface: pebbling on oil glands present only)	medium	
<input type="checkbox"/> *Fruit rind: thickness	thin	
<input type="checkbox"/> *Fruit rind: adherence to flesh	weak	
<input type="checkbox"/> Fruit rind: strength	weak	
<input type="checkbox"/> Fruit rind: oiliness	dry	
<input type="checkbox"/> Fruit rind: conspicuousness of oil glands on inner surface	absent or weakly conspicuous	
<input type="checkbox"/> Fruit: colour of albedo	white	
<input checked="" type="checkbox"/> Fruit: density of albedo	medium	loose
<input type="checkbox"/> *Fruit: amount of albedo adhering to flesh	small	
<input type="checkbox"/> Fruit: presence of albedo strands	present	
<input type="checkbox"/> Fruit: amount of albedo strands	small	
<input type="checkbox"/> *Fruit: main colour of flesh	medium orange	
<input checked="" type="checkbox"/> Fruit: filling of core	medium	sparse
<input checked="" type="checkbox"/> Fruit: diameter of core	small	medium
<input type="checkbox"/> Fruit: number of well developed	medium	

segments

 Fruit: strength of segment walls strong Fruit: length of juice vesicles short Fruit: thickness of juice vesicles medium Fruit: conspicuousness of juice vesicle walls medium

walls

 Fruit: coherence of juice vesicles weak *Fruit: presence of navel (viewed internally) absent or very rare Fruit: juiciness medium *Fruit juice: total soluble solids high low to medium Fruit juice: acidity low Fruit: strength of fibre medium Fruit: number of seeds (open pollination) absent or very few few *Seed: polyembryony present *Time of: maturity of fruit for consumption medium *Fruit: parthenocarpy present**Prior Applications and Sales:**

Country	Year	Status	Name Applied
Korea	2016	applied	'Minihyang'

First sale: Nil

Description: Michael Christie, NSW 2000.

Details of Application

Application Number	2018/209
Variety Name	'ZENTAURO'
Genus Species	<i>Cucumis melo</i>
Common Name	Melon
Accepted Date	08 Nov 2018
Applicant	Nunhems B.V., Nunhem 6083 AB, The Netherlands; Laboratoire ASL S.N.C., EYRAGUES 13630, France
Agent	Spruson & Ferguson, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	MLN676
Location	Naktuinbouw, ROELOFARENDSVEEN, NL
Descriptor	TP/104/2 d.d. 21-03-2007
Period	2018 - 2019
Conditions	N/A
Trial Design	In accordance with TP/104/2 d.d. 21-03-2007
Measurements	In accordance with TP/104/2 d.d. 21-03-2007
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: Two homozygous breeding lines were developed by selfing. Hybridisation of the two homozygous breeding lines was performed. Selection was performed based on the sugar content of the fruit and the taste. Selection was also applied based on storability of the fruit. Breeder: Nunhems B.V., Haelen 6080 AA, Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Inflorescence	sex expression at full flowering	monoecious
Fruit	length	medium to long
Fruit	shape in longitudinal section	broad elliptic
Fruit	ground colour of skin	grey
Fruit	density of patches	absent or very sparse
Fruit	grooves	absent or weakly expressed
Fruit	cork formation	present
Fruit	pattern of cork formation	netted only
Fruit	main colour of flesh	orange
Seed	length	medium
Seed	colour	cream yellow
Plant	resistance to <i>Fusarium oxysporum</i> f. sp. <i>melonis</i> : race 0	present
Plant	resistance to <i>Fusarium oxysporum</i> f. sp. <i>melonis</i> : race 1	absent
Plant	resistance to <i>Fusarium oxysporum</i> f. sp. <i>melonis</i> : race 2	present

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Zenturion'	
'CARIBBEAN KING'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'CARIBBEAN KING'	aphid resistance	susceptible	intermediate resistant	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'ZENTAURO'	'Zenturion'
<input type="checkbox"/> Seedling: length of hypocotyl	short to medium	
<input type="checkbox"/> Seedling: size of cotyledon	small to medium	
<input type="checkbox"/> Seedling: intensity of green colour of cotyledon	medium to dark	
<input type="checkbox"/> Leaf blade: size	small to medium	
<input type="checkbox"/> Leaf blade: intensity of green colour	medium to dark	
<input type="checkbox"/> Leaf blade: development of lobes	weak	
<input type="checkbox"/> Leaf blade: length of terminal lobe	short	
<input type="checkbox"/> Leaf blade: dentation of margin	very weak to weak	
<input type="checkbox"/> Leaf blade: blistering	weak	
<input type="checkbox"/> Petiole: attitude	semi-erect	
<input type="checkbox"/> Petiole: length	medium	
<input type="checkbox"/> *Inflorescence: sex expression	monoecious	
<input type="checkbox"/> Young fruit: hue of green colour of skin	greyish green	
<input type="checkbox"/> *Young fruit: intensity of green colour of skin	light to medium	
<input type="checkbox"/> Young fruit: density of dots	absent or very sparse	
<input type="checkbox"/> Young fruit: conspicuousness of groove colouring	absent or very weak	
<input type="checkbox"/> Young fruit: length of peduncle	short to medium	
<input type="checkbox"/> Young fruit: thickness of peduncle 1 cm from fruit	thin to medium	
<input type="checkbox"/> Young fruit: extension of darker area around peduncle	medium	
<input type="checkbox"/> Fruit: change of skin colour from young fruit to maturity	very late in fruit development or no change	
<input type="checkbox"/> *Fruit: length	medium to long	

<input type="checkbox"/>	*Fruit: diameter	medium	
<input checked="" type="checkbox"/>	*Fruit: ratio length/diameter	medium to large	medium
<input type="checkbox"/>	*Fruit: position of maximum diameter	at middle	
<input type="checkbox"/>	*Fruit: shape in longitudinal section	broad elliptic	broad elliptic
<input type="checkbox"/>	*Fruit: ground colour of skin	grey	
<input type="checkbox"/>	Fruit: intensity of ground colour of skin	medium	
<input type="checkbox"/>	Fruit: hue of ground colour of skin	greenish	
<input type="checkbox"/>	Fruit: density of dots	absent or very sparse	
<input type="checkbox"/>	*Fruit: density of patches	absent or very sparse	
<input type="checkbox"/>	*Fruit: warts	absent	
<input type="checkbox"/>	*Fruit: strength of attachment of peduncle at maturity	medium to strong	
<input type="checkbox"/>	*Fruit: shape of base	rounded	
<input type="checkbox"/>	*Fruit: shape of apex	rounded	
<input type="checkbox"/>	*Fruit: size of pistil scar	small	
<input type="checkbox"/>	*Fruit: grooves	absent or very weakly expressed	
<input type="checkbox"/>	*Fruit: creasing of surface	absent or very weak	
<input type="checkbox"/>	*Fruit: cork formation	present	
<input type="checkbox"/>	*Fruit: thickness of cork layer	medium	
<input type="checkbox"/>	*Fruit: pattern of cork formation	netted only	
<input checked="" type="checkbox"/>	*Fruit: density of pattern of cork formation	medium to dense	medium
<input type="checkbox"/>	Fruit: rate of change of skin colour from maturity to over maturity	absent or very slow	
<input type="checkbox"/>	Fruit: width of flesh in longitudinal section	medium to thick	
<input type="checkbox"/>	*Fruit: main color of flesh	orange	
<input type="checkbox"/>	Fruit: intensity of orange color of flesh (varieties with main colour of flesh: orange only)	medium	
<input type="checkbox"/>	*Seed: length	medium	
<input type="checkbox"/>	Seed: width	medium	
<input type="checkbox"/>	Seed: shape	not pine-nut shape	
<input type="checkbox"/>	*Seed: colour	cream yellow	
<input type="checkbox"/>	Seed: intensity of colour (varieties with cream yellow seed color only)	light to medium	
<input type="checkbox"/>	Time of: male flowering	early to medium	
<input type="checkbox"/>	Time of: female flowering	early to medium	
<input type="checkbox"/>	Time of: ripening	medium	
<input type="checkbox"/>	*Shelf life of: fruit	long	
<input type="checkbox"/>	Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>melonis</i> race 0	present	
<input type="checkbox"/>	Resistance to: <i>Fusarium oxysporum</i> f. sp.	absent	

melonis race 1

Resistance to: *Fusarium oxysporum* f. sp. present

melonis race 2

Resistance to: *Fusarium oxysporum* f. sp. absent

melonis race 1-2

Resistance to: *Sphaerotheca fuliginea* (Podosphaera xanthii) (powdery mildew) race 1 moderately resistant

Resistance to: *Sphaerotheca fuliginea* (Podosphaera xanthii) (powdery mildew) race 2 intermediate resistant

Resistance to: *Sphaerotheca fuliginea* (Podosphaera xanthii) (powdery mildew) Race susceptible

5

Resistance to: *Erysiphe cichoracearum* (*Golovinomyces cichoracearum*) race 1 intermediate resistant (powdery mildew)

Resistance to: colonization by aphid gossypii absent

Resistance to: Muskmelon Necrotic Spot absent

Virus (MNSV) race E8

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2017	granted	'ZENTAURO'
Costa Rica	2018	granted	'ZENTAURO'

Prior sale: Nil

Description: Ean Blackwell, Sydney, NSW 2000.

Details of Application

Application Number	2021/249
Variety Name	'vi010'
Genus Species	<i>Vigna radiata</i>
Common Name	Mung Bean
Accepted Date	10 Dec 2021
Applicant	Granum (Overseas) Pty Ltd, Brisbane, QLD, Australia
Qualified Person	Andrew James

Details of Comparative Trial

Location	Forest Hill, QLD
Descriptor	Mungbean/Blackgram draft
Period	January to June 2022
Conditions	Soil at the CSIRO Forest Hill Research station was formed into 1.5m wide beds and fertilised with sufficient Phosphorus and Potassium fertilizer to ensure excellent growth. The field had previously been used for soybean cropping, so no additional Rhizobial inoculant was applied. Seed was sown into four row plots 6 m in length, and irrigated with sufficient water to achieve uniform establishment. The trial was maintained substantially free from weeds and insect pests
Trial Design	Randomised complete block with three replicates
Measurements	Days from planting to appearance of the first flower on 50% of the plants in a plot was recorded. At flowering, the length and width of the terminal leaflet on ten plants within each replicate was measured. At maturity, the number of main stem nodes, the total number of nodes, the length of the main stem was recorded on ten plants within each replicate. The weight of 100 seeds was recorded subsequent to threshing of each plot.

RHS Chart - edition N/A

Origin and Breeding

Open pollination: A putative F1 plant was identified in a trial block of the variety 'Golden Ball' at Dalby SE Qld in March 2012. A single plant was identified that was more upright, slightly later flowering and maturing, and with slightly more curved pods at maturity. At maturity the plant was harvested and the seed was found to be green rather than yellow as with 'Golden Ball'. Initially it was thought that the plant may have grown from admixed seed from the variety 'Green Diamond' as a previous generation of the 'Golden Ball' seed had been grown adjacent to a crop of 'Green Diamond'. However, the seed size was larger than 'Green Diamond'. It was assumed that the single plant was the result of natural hybridisation. The seed from this plant was larger and more box-shaped than typical for 'Green Diamond'. The seed from this plant was subsequently sown to generate a F2 generation. This generation segregated widely for maturity, plant form, lodging susceptibility, pod shattering at maturity and for seed coat colour. Approximately one quarter of the plants expressed yellow seed coat at maturity. Single plants possessing yellow seed coat, upright plant habit, apparent resistance to pod shattering and mid-season maturity were harvested and advanced to the F3 and F4 generation by single seed descent. Short rows were planted at Gatton in the summer of 2014 and larger plots in 2015. Trial blocks were grown around southern Qld, NSW and Victoria over the period 2016 to 2021 with lodging resistance, pod shattering and seed traits noted. The line 'vi010' was selected as possessing high yield, quality, resistance to lodging and pod shattering. Breeder: Stephen Leslie Donnelly, Granum (Overseas) Pty Ltd, Brisbane, QLD, Australia.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	height	medium
Plant	number of primary branches	medium
Primary leaf	shape	ovate
Flower	days to flowering	medium
Plant	flowering synchrony	intermediate
Pod	days to maturity	medium
Pod	mature pod colour	black
Seed	1000 seed weight	low
Seed	no. of seed in 10g of seed	high

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Golden Ball'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Green Diamond'	seed colour	yellow	dark green	
'Celera II'	seed colour	yellow	dark green	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'vi010'	'Golden Ball'
<input checked="" type="checkbox"/> Plant: hypocotyl colour (at 10 days after emergence)	dark purple	green
<input type="checkbox"/> Plant: seedling vigour (at 15 days after emergence)	high	high
<input type="checkbox"/> Plant: growth pattern (when pod first changes colour)	determinate	determinate
<input checked="" type="checkbox"/> Plant: twining tendency (when first pod changes colours)	low	high
<input checked="" type="checkbox"/> Plant: growth habit (when first pod changes colours)	erect	semi-erect
<input type="checkbox"/> Plant: height (mean of 10 randomly selected plants)	medium	medium
<input checked="" type="checkbox"/> Stem: colour	dark purple	light green
<input checked="" type="checkbox"/> Plant: number of primary branches (when first pod changes colour. Count only pod-bearing branches whose origin is in the leaf axils on the main stem)	low to medium	high
<input checked="" type="checkbox"/> Plant: branch length (length of longest branch when first pod changes colour)	medium	long
<input type="checkbox"/> Stem: branching pattern (predominant location of branches)	towards the base	towards the base
<input type="checkbox"/> Primary leaf: shape	ovate-lanceolate	ovate-lanceolate

<input type="checkbox"/> Primary leaf: length	medium	medium
<input checked="" type="checkbox"/> Primary leaf: width	medium to broad	medium
<input type="checkbox"/> Leaf: colour (intensity of green colour of trifoliolate leaves at 50% flowering)	medium green	medium green
<input type="checkbox"/> Plant: density of leaf canopy (At 50% flowering)	medium	medium
<input type="checkbox"/> Leaf: pubescence	medium	medium
<input type="checkbox"/> Leaf: terminal leaflet shape (recorded for the leaf at the fourth node)	ovate	ovate
<input checked="" type="checkbox"/> Leaf: terminal leaflet length (recorded for the leaf at the fourth node)	medium to long	medium
<input type="checkbox"/> Leaf: terminal leaflet width (recorded for the leaf at the fourth node)	medium	medium
<input checked="" type="checkbox"/> Petiole: colour	greenish purple	green
<input type="checkbox"/> Petiole: length (recorded for the leaf at the fourth node)	medium to long	medium to long
<input type="checkbox"/> Peduncle: length (the length of the longest peduncle when first pod changes colour)	medium	medium
<input type="checkbox"/> Peduncle: number of pod-bearing peduncles (number of Peduncles having at least one fully grown pod at first harvest including both main stem and branches)	medium	medium
<input type="checkbox"/> Flower: days to flowering (from sowing to stage when 50% of plants have begun to flower)	medium	medium
<input type="checkbox"/> Plant: number of nodes between the unifoliolate leaf node and first pod-bearing node	medium	medium
<input type="checkbox"/> Flower: calyx colour	purplish green	green
<input type="checkbox"/> Flower: corolla colour (colour of wings and standards of freshly opened flowers)	greenish yellow	greenish yellow
<input type="checkbox"/> Plant: flowering synchrony	synchronous	synchronous
<input type="checkbox"/> Plant: raceme (Inflorescence) position (when the first pod changes colour)	mostly above the canopy	mostly above the canopy
<input checked="" type="checkbox"/> Pod: number of pods per plant	medium to high	low
<input checked="" type="checkbox"/> Pod: curvature of shape	slightly curved	straight
<input type="checkbox"/> Pod: attachment to peduncle (when pods are full grown)	sub-erect	sub-erect
<input type="checkbox"/> Pod: colour of ventral suture of immature pod	dark green	dark green
<input type="checkbox"/> Pod: immature pod colour	dark green	light green
<input type="checkbox"/> Pod: days to maturity (number of days from planting to 80% dry pods)	medium	medium
<input type="checkbox"/> Pod: mature pod colour	black	black
<input type="checkbox"/> Pod: mature pod shape in cross-section	round	round
<input type="checkbox"/> Pod: beak shape	pointed	pointed
<input type="checkbox"/> Pod: pubescence (when first pod changes colour)	medium	medium

<input checked="" type="checkbox"/> Pod: length	medium	medium to long
<input checked="" type="checkbox"/> Pod: shattering in the field	absent	present
<input type="checkbox"/> Pod: constriction of pod between seeds (when pod changes colour)	slight	slight
<input checked="" type="checkbox"/> Pod: number of seeds per pod (mean number for 10 randomly selected pods)	high	medium to high
<input type="checkbox"/> Seed: shape	ovoid	ovoid
<input type="checkbox"/> Seed: colour (<i>Vigna radiata</i>)	yellow	yellow
<input type="checkbox"/> Seed: lustre on seed surface	present	present
<input type="checkbox"/> Seed: mottling on seed surface	absent	absent
<input type="checkbox"/> Seed: hilum shape	non-concave (aril not prominent)	non-concave (aril not prominent)
<input type="checkbox"/> Seed: 1000 seed weight (gm)	medium	low to medium
<input type="checkbox"/> Seed: No. of seed in 10 gm seeds	medium to high	medium to high
<input type="checkbox"/> Plant: leaf sence	medium	medium
<input checked="" type="checkbox"/> Plant: total seed weight per plant (mean weight of dried seeds from 10 randomly selected plants)	high	medium

Statistical Table

Organ/Plant Part: Context	'vi010'	'Golden Ball'
<input checked="" type="checkbox"/> Pod: length (mm)		
Mean	93	100
Std. Deviation	3.20	3.00
Lsd/sig	4.8	ns
<input checked="" type="checkbox"/> Flower: days to flowering (day)		
Mean	51.70	55.70
Std. Deviation	0.60	2.10
Lsd/sig	1.9	P≤0.01
<input type="checkbox"/> Maturity: days to maturity (day)		
Mean	105.00	108.00
Std. Deviation	2.00	1.00
Lsd/sig	5.3	ns
<input checked="" type="checkbox"/> Plant: hypocotyl colour (rating)		
Mean	3.70	1.00
Std. Deviation	0.60	0.00
Lsd/sig	1.1	P≤0.01
<input checked="" type="checkbox"/> Plant: twining (rating)		
Mean	1.30	3.00
Std. Deviation	0.60	0.00
Lsd/sig	1.0	P≤0.01
<input type="checkbox"/> Plant: height (cm)		
Mean	76.00	75.00
Std. Deviation	1.40	0.70
Lsd/sig	3.7	ns
<input checked="" type="checkbox"/> Leaf: width (mm)		
Mean	117.00	112.00

Std. Deviation	1.50	1.50
Lsd/sig	1.4	P≤0.01
<input checked="" type="checkbox"/> Leaf: length (mm)		
Mean	143.00	136.00
Std. Deviation	0.90	2.50
Lsd/sig	6.2	P≤0.01
<input checked="" type="checkbox"/> Plant: total nodes per plant (count)		
Mean	19.00	30.00
Std. Deviation	0.20	3.30
Lsd/sig	4.3	P≤0.01
<input checked="" type="checkbox"/> Seed: weight of 100 seed (gram)		
Mean	4.80	5.90
Std. Deviation	0.30	0.20
Lsd/sig	0.8	P≤0.01
<input type="checkbox"/> Pod: number of seeds (count)		
Mean	13.60	13.20
Std. Deviation	0.20	0.80
Lsd/sig	1.0	ns

Prior Applications and Sales:

Nil

Description: Andrew James, CSIRO, St Lucia, QLD 4067

Details of Application

Application Number	2021/094
Variety Name	'AGV1015'
Genus Species	<i>Vigna radiata</i>
Common Name	Mung Bean
Accepted Date	10 Aug 2021
Applicant	Agriventis Technologies Pty Ltd, North Sydney, NSW
Qualified Person	Dr Donald S. Loch

Details of Comparative Trial

Location	Cleveland, QLD (Latitude 27°31'S, longitude 153°15'E, elevation 26 masl)
Descriptor	PBR Mungbean
Period	22 Nov 2021 – 22 Feb 2022
Conditions	Experiment situated on a red volcanic (krasnozem or ferrosol) soil; seed sown into dry soil on 22 Nov 2021 prior to germinating rain on 23 Nov 2021; weed control by pre-emergence pendimethalin (Stomp® Xtra) pre-planting on 18 Nov 2021; 313 kg/ha of blended fertiliser (N:P:K:S = 12.8:14.2:11.9:6.4) applied after planting on 24 Nov 2021 to give 40 kg N, 44 kg P, 37 kg K, and 20 kg S per hectare; watered with a slurry of Cowpea inoculant (Group I – CB1015) on 25 Nov 2021; supplementary irrigation applied as required to maintain unstressed growth. Sprayed with chlorantraniliprole (Acelepryn®) + deltamethrin (Ballistic® Elite) to protect flowers and pods (8 and 23 Dec 2021, 5 and 23 Jan 2022); sprayed with azoxystrobin (Amistar® 250 SC) + metalaxyl-M (Ridomil® Gold 480 EC) to control suspected charcoal rot.
Trial Design	Mini-sward rows of 5 cultivars ('AGV1015', 'AGV1011', 'Opal-AU', 'Crystal', 'Jade-AU') plus second-generation plots of 3 cultivars ('AGV1015', 'AGV1011', 'Opal-AU') were arranged in 4 randomised blocks; ±20 plants per 1.5 m mini-sward plot seeded at c. 7.5 cm spacing along a single 64 m row; 0.5 m between mini-sward plots.
Measurements	Days to flowering determined progressively for each plot (1-5 Jan 2022). Measurements (eight per plot) made of leaflet length and width on fully expanded leaves from the third node below the tip if the main stem (13-18 Jan 2021). Mature plant height, numbers of main stem nodes, and primary branches determined on eight plants per plot (21-22 Feb 2022). Pod length, width and depth measured on 16 well-developed seeded pods per plot (25-28 Jan 2022). Seed size determined after sun drying for sub-samples of 200 seeds per plot. Analyses of variance (ANOVAs) conducted with GenStat Release 12.
RHS Chart - edition	2015 (6th edition)

Origin and Breeding

Controlled pollination and seedling selection: 'AGV1015' resulted from controlled pollination (hand emasculation followed by bagging after pollination) of 'Green Lantern' (derived from Bangladesh GMB VI x PHS1009) by PHS1019 (derived from Accession Unknown x PHS1007) in 2012. Progeny of this cross were then subjected to 6 cycles of

seedling selection for heat, drought and halo blight disease tolerance, vigorous growth, strong flowering, and long pods leading to high yields of pulse grains. The final selection of the uniform genotype named 'AGV1015' was made in 2014, followed by bulking of seed and production trials. Breeder: Paul Stewart, Chatswood, NSW.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part Context		State of Expression in Group of Varieties
Plant	height	tall
Plant	number of primary branches	low - medium
Seed	colour	green
Seed	size	medium - large
Seed	lustre of surface	shiny

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'AGV1011'	PBR Application No. 2018/270
'Opal-AU'	PBR Application No. 2019/156
'Jade-AU'	PBR Application No. 2012/023
'Crystal'	PBR Application No. 2007/308

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Satin 2'	Seed lustre of surface	shiny	dull	PBR Application No. 2008/253
'Celera II-AU'	Seed size	large	small	PBR Application No. 2013/202
'Green Diamond'	Seed size	large	small	PBR Application No. 1997/144
'Berken'	Plant height	tall	medium	Released in 1975
'Berken'	Plant number of primary branches	medium	very low	
'Emerald'	Seed size	large	small	PBR Application No. 1992/165
'Black Pearl'	Seed colour	green	black	PBR Application No. 1994/081
'Onyx-AU'	Seed colour	green	black	
'Regur'	Seed colour	green	black	
'Emerald'	Plant number of primary branches	medium	very low	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part:	'AGV1015'	'AGV1011'	'Crystal'	'Jade-AU'	'Opal-AU'
Context					
<input type="checkbox"/> Plant: growth habit	erect	erect	erect	erect	erect
<input type="checkbox"/> Plant: growth type	determinate	determinate	determinate	determinate	determinate
<input type="checkbox"/> Plant: twining tendency	absent	absent	absent	absent	absent
<input type="checkbox"/> Plant: height	tall	tall	tall	tall	tall
<input checked="" type="checkbox"/> Plant: number of primary branches	medium	medium	low	medium	medium
<input type="checkbox"/> Leaf: pubescence	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> Leaf: Intensity of green colour on upper side	dark	dark	dark	dark	medium
<input type="checkbox"/> Petiole: length	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf: length of central petiolule	medium	medium	medium	medium	medium to long
<input type="checkbox"/> Leaf: shape of terminal leaflet	deltate	deltate	deltate	deltate	deltate
<input checked="" type="checkbox"/> Leaf: length of terminal leaflet	long	long	long	long	very long
<input checked="" type="checkbox"/> Leaf: width of terminal leaflet	broad	broad	broad	broad	very broad
<input type="checkbox"/> Peduncle: length	medium	medium	medium	medium	medium
<input type="checkbox"/> Flower: colour of standard	yellowish-green	yellowish-green	yellowish-green	yellowish-green	yellowish-green
<input type="checkbox"/> Flower: colour of wings	greenish-yellow	greenish-yellow	greenish-yellow	greenish-yellow	greenish-yellow
<input type="checkbox"/> Inflorescence: predominant position relative to canopy	level	level	level	level	level
<input checked="" type="checkbox"/> Mature pod: colour	black	black	black	brown	black
<input checked="" type="checkbox"/> Inflorescence: number of pods per axillary inflorescence (or hand)	many	medium to many	few to medium	many	many
<input type="checkbox"/> Pod: pubescence	medium	medium	medium	medium	medium
<input type="checkbox"/> Pod: shattering	absent	absent	absent	absent	absent
<input checked="" type="checkbox"/> Mature pod: length	long to very long	medium to long	long to very long	medium to long	short to medium
<input type="checkbox"/> Mature pod: curvature	slightly curved	slightly curved	slightly curved	slightly curved	slightly curved
<input checked="" type="checkbox"/> Mature pod: shape in cross section	semi-flat	semi-flat	semi-flat	semi-flat	round
<input checked="" type="checkbox"/> Mature pod: shape of beak	pointed	pointed	pointed	pointed	hook

<input checked="" type="checkbox"/> Mature pod: number of seeds per pod	high	medium	high	medium to high	high to very high
<input type="checkbox"/> Seed: shape	ovoid	ovoid	ovoid	ovoid	ovoid
<input type="checkbox"/> Seed: hilum shape	non-concave (aril not prominent)				
<input type="checkbox"/> Seed: colour	green-yellow	green-yellow	green-yellow	green-yellow	green-yellow
<input type="checkbox"/> Seed: lustre of surface	present (shiny)				
<input type="checkbox"/> Seed: mottling on surface	absent or very low				
<input checked="" type="checkbox"/> Seed: size	large	medium to large	large	medium to large	medium
<input type="checkbox"/> Seed: colour (RHS)	144A	144B	146B	144A	144A-146B
<input checked="" type="checkbox"/> Mature pod: colour (RHS)	202A	202A	202A	200A	202A
<input type="checkbox"/> Flower: colour of wings (RHS)	1B	1B	1B	1C	1B
<input type="checkbox"/> Flower: colour of standard petal (RHS)	145C	145B	144B-C	145C	149D-150C
<input checked="" type="checkbox"/> Leaf: colour of upper side (RHS)	132A	131A	132A	132A	N134A-135B

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'AGV1015'	'AGV1011'	'Crystal'	'Jade-AU'	'Opal-AU'
<input checked="" type="checkbox"/> Petiole: anthocyanin coloration at base (point of attachment to stem)	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input checked="" type="checkbox"/> Petiolule: anthocyanin coloration at points of attachment to leaflets	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input type="checkbox"/> Flowering: days to first open flowers	medium	medium	medium	medium	medium
<input type="checkbox"/> Peduncle: pubescence	dense	dense	dense	dense	dense
<input type="checkbox"/> Immature pod: anthocyanin coloration of ventral suture	absent	absent	absent	absent	absent

<input type="checkbox"/> Pod: attitude (pod attachment to peduncle)	erect to semi-pendulous				
<input type="checkbox"/> Mature pod: constriction between seeds	absent or very slight				
<input checked="" type="checkbox"/> Seedling: hypocotyl coloration	anthocyanin absent	anthocyanin absent	anthocyanin absent	anthocyanin absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input type="checkbox"/> Seedling: shape of first unifoliate leaf	lanceolate	lanceolate	lanceolate	lanceolate	lanceolate
<input type="checkbox"/> Plant: branching pattern (predominant location of branches)	towards the base				
<input checked="" type="checkbox"/> Stem: anthocyanin coloration	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input type="checkbox"/> Stem: pubescence	dense	dense	dense	dense	dense
<input type="checkbox"/> Petiole: pubescence	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> Petiole: anthocyanin coloration	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input checked="" type="checkbox"/> Petiole: anthocyanin coloration at top (point of attachment to leaf)	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)

Statistical Table

Organ/Plant Part: Context	'AGV1015'	'AGV1011'	'Crystal'	'Jade-AU'	'Opal-AU'
<input checked="" type="checkbox"/> Plant: days from sowing to flowering					
Mean	41.50	41.25	42.00	40.00	41.50
Std. Deviation	0.58	0.50	0.82	0.82	0.58
Lsd/sig	1.26	ns	ns	P≤0.01	ns

<input type="checkbox"/>	Plant: mature height (cm)					
Mean	77.30	76.11	81.40	76.28	79.02	
Std. Deviation	8.92	8.64	11.72	7.91	11.66	
Lsd/sig	9.60	ns	ns	ns	ns	
<input type="checkbox"/>	Plant: number of nodes on main stem					
Mean	9.53	9.25	9.84	9.22	9.69	
Std. Deviation	0.67	0.51	0.63	0.79	0.59	
Lsd/sig	0.56	ns	ns	ns	ns	
<input checked="" type="checkbox"/>	Plant: number of primary branches on main stem					
Mean	3.41	3.53	2.72	3.25	3.75	
Std. Deviation	0.84	0.80	0.77	1.02	0.80	
Lsd/sig	0.64	ns	P≤0.01	ns	ns	
<input type="checkbox"/>	Trifoliolate leaf: petiole length (mm)					
Mean	212.50	215.47	223.97	208.69	207.00	
Std. Deviation	17.73	21.57	22.46	21.26	21.21	
Lsd/sig	14.95	ns	ns	ns	ns	
<input type="checkbox"/>	Trifoliolate leaf: petiolule length (subtending terminal leaflet) (mm)					
Mean	55.22	56.59	56.38	54.22	58.81	
Std. Deviation	5.64	6.63	7.35	5.86	7.11	
Lsd/sig	4.80	ns	ns	ns	ns	
<input checked="" type="checkbox"/>	Trifoliolate leaf: terminal leaflet length (mm)					
Mean	163.66	164.88	169.75	161.84	192.75	
Std. Deviation	15.04	12.26	18.06	11.56	16.42	
Lsd/sig	12.77	ns	ns	ns	P≤0.01	
<input checked="" type="checkbox"/>	Trifoliolate leaf: terminal leaflet width (mm)					
Mean	147.50	149.25	165.66	146.50	166.75	
Std. Deviation	12.74	14.73	16.92	10.78	16.01	
Lsd/sig	12.77	ns	P≤0.01	ns	P≤0.01	
<input checked="" type="checkbox"/>	Trifoliolate leaf: terminal leaflet length:width ratio					
Mean	1.11	1.11	1.03	1.11	1.16	
Std. Deviation	0.05	0.07	0.06	0.09	0.07	
Lsd/sig	0.05	ns	P≤0.01	ns	P≤0.01	
<input checked="" type="checkbox"/>	Trifoliolate leaf: lateral leaflet length (mm)					
Mean	162.59	167.16	172.19	162.22	195.09	
Std. Deviation	12.73	9.89	14.35	11.09	13.11	
Lsd/sig	11.76	ns	ns	ns	P≤0.01	
<input checked="" type="checkbox"/>	Trifoliolate leaf: lateral leaflet width (mm)					
Mean	126.78	132.31	144.09	126.81	150.63	
Std. Deviation	10.93	10.26	13.56	10.75	11.27	
Lsd/sig	11.68	ns	P≤0.01	ns	P≤0.01	
<input checked="" type="checkbox"/>	Trifoliolate leaf: lateral leaflet length:width ratio					
Mean	1.29	1.27	1.20	1.28	1.30	
Std. Deviation	0.08	0.06	0.06	0.08	0.06	
Lsd/sig	0.06	ns	P≤0.01	ns	ns	
<input type="checkbox"/>	Inflorescence: peduncle length (cm)					
Mean	27.21	27.56	28.18	27.96	27.42	
Std. Deviation	3.51	3.70	4.20	3.93	3.79	

Lsd/sig	3.03	ns	ns	ns	ns
☒ Inflorescence: number of pods per hand					
Mean	4.00	3.75	3.47	3.94	4.13
Std. Deviation	0.44	0.62	0.76	0.72	0.61
Lsd/sig	0.39	ns	P≤0.01	ns	ns
☒ Pod: length (mm)					
Mean	117.77	112.94	116.02	114.88	96.53
Std. Deviation	1.91	1.97	3.36	2.29	2.10
Lsd/sig	2.91	P≤0.01	ns	P≤0.01	P≤0.01
☒ Pod: width (mm)					
Mean	6.70	6.49	6.94	6.67	5.74
Std. Deviation	0.27	0.18	0.35	0.26	0.10
Lsd/sig	0.22	ns	P≤0.01	ns	P≤0.01
☒ Pod: depth (mm)					
Mean	5.40	5.44	5.12	5.44	5.52
Std. Deviation	0.21	0.21	0.26	0.19	0.14
Lsd/sig	0.23	ns	P≤0.01	ns	ns
☒ Pod: width:depth ratio					
Mean	1.24	1.20	1.36	1.23	1.04
Std. Deviation	0.07	0.06	0.11	0.06	0.03
Lsd/sig	0.08	ns	P≤0.01	ns	P≤0.01
☒ Pod: number of seeds per pod					
Mean	14.16	13.47	14.16	13.75	14.42
Std. Deviation	0.30	0.55	0.43	0.57	0.44
Lsd/sig	0.52	P≤0.01	ns	ns	ns
☒ Pod: number of seeds per cm of pod					
Mean	1.20	1.19	1.22	1.20	1.49
Std. Deviation	0.03	0.04	0.05	0.04	0.04
Lsd/sig	0.05	ns	ns	ns	P≤0.01
☒ Pod: seed weight per pod (g)					
Mean	0.86	0.82	0.84	0.83	0.77
Std. Deviation	0.04	0.03	0.06	0.02	0.03
Lsd/sig	0.08	ns	ns	ns	P≤0.01
☒ Seed: 100-seed weight (g)					
Mean	6.67	6.56	6.80	6.51	6.27
Std. Deviation	0.16	0.12	0.33	0.23	0.06
Lsd/sig	0.36	ns	ns	ns	P≤0.01

Prior Applications and Sales:

Nil

Description: D.S. Loch, Alexandra Hills, QLD

Details of Application

Application Number	2018/270
Variety Name	'AGV1011'
Genus Species	<i>Vigna radiata</i>
Common Name	Mung Bean
Accepted Date	15 Mar 2019
Applicant	AgriVentis Technologies Pty Ltd, North Sydney, NSW, Australia
Agent	Peter Maxwell and Associates, NSW
Qualified Person	Dr Donald S. Loch

Details of Comparative Trial

Location	Cleveland, QLD (Latitude 27°31'S, longitude 153°15'E, elevation 26 masl)
Descriptor	PBR Mungbean
Period	22 Nov 2021 – 22 Feb 2022
Conditions	Experiment situated on a red volcanic (krasnozem or ferrosol) soil; seed sown into dry soil on 22 Nov 2021 prior to germinating rain on 23 Nov 2021; weed control by pre-emergence pendimethalin (Stomp® Xtra) pre-planting on 18 Nov 2021; 313 kg/ha of blended fertiliser (N:P:K:S = 12.8:14.2:11.9:6.4) applied after planting on 24 Nov 2021 to give 40 kg N, 44 kg P, 37 kg K, and 20 kg S per hectare; watered with a slurry of Cowpea inoculant (Group I – CB1015) on 25 Nov 2021; supplementary irrigation applied as required to maintain unstressed growth. Sprayed with chlorantraniliprole (Acelepryn®) + deltamethrin (Ballistic® Elite) to protect flowers and pods (8 and 23 Dec 2021, 5 and 23 Jan 2022); sprayed with azoxystrobin (Amistar® 250 SC) + metalaxyl-M (Ridomil® Gold 480 EC) to control suspected charcoal rot.
Trial Design	Mini-sward rows of 5 cultivars ('AGV1011', 'AGV1015', 'Opal-AU', 'Crystal', 'Jade-AU') plus second-generation plots of 3 cultivars ('AGV1011', 'AGV1015', 'Opal-AU') were arranged in 4 randomised blocks; ±20 plants per 1.5 m mini-sward plot seeded at c. 7.5 cm spacing along a single 64 m row; 0.5 m between mini-sward plots.
Measurements	Days to flowering determined progressively for each plot (1-5 Jan 2022). Measurements (eight per plot) made of leaflet length and width on fully expanded leaves from the third node below the tip of the main stem (13-18 Jan 2021). Mature plant height, numbers of main stem nodes, and primary branches determined on eight plants per plot (21-22 Feb 2022). Pod length, width and depth measured on 16 well-developed seeded pods per plot (25-28 Jan 2022). Seed size determined after sun drying for sub-samples of 200 seeds per plot. Analyses of variance (ANOVAs) conducted with GenStat Release 12.
RHS Chart - edition	2015 (6th edition)

Origin and Breeding

Controlled pollination and seedling selection: 'AGV1011' resulted from controlled pollination (hand emasculation followed by bagging after pollination) of 'Green Lantern' (derived from Bangladesh GMB VI x PHS1009) by PHS1019 (derived from Accession Unknown x PHS1007) in 2012. Progeny of this cross were then subjected to 6 cycles of seedling selection for heat, drought and halo blight disease tolerance, vigorous growth, strong flowering, and long pods leading to high yields of pulse grains. The final selection of the uniform genotype named 'AGV1011' was made in 2014, followed by bulking of seed and production trials. Breeder: Paul Stewart, Chatswood, NSW.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	height	tall
Plant	number of primary branches	low - medium
Seed	colour	green
Seed	size	medium - large
Seed	lustre of surface	shiny

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'AGV1015'	PBR Application No. 2021/094
'Opal-AU'	PBR Application No. 2019/156
'Crystal'	PBR Application No. 2007/308
'Jade-AU'	PBR Application No. 2012/023

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Satin 2'	Seed lustre of surface	shiny	dull	PBR Application No. 2008/253
'Celera II-AU'	Seed size	large	small	PBR Application No. 2013/202
'Green Diamond'	Seed size	large	small	PBR Application No. 1997/144
'Berken'	Plant height	tall	medium	Released in 1975
'Berken'	Plant number of primary branches	medium	very low	
'Emerald'	Seed size	large	small	PBR Application No. 1992/165
'Emerald'	Plant number of primary branches	medium	very low	
'Black'	Seed colour	green	black	PBR Application

Pearl'					No. 1994/081
'Onyx-AU'Seed	colour	green		black	
'Regur'	Seed	colour	green	black	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'AGV1011'	'AGV1015'	'Crystal'	'Jade-AU'	'Opal-AU'
<input type="checkbox"/> Plant: growth habit	erect	erect	erect	erect	erect
<input type="checkbox"/> Plant: growth type	determinate	determinate	determinate	determinate	determinate
<input type="checkbox"/> Plant: twining tendency	absent	absent	absent	absent	absent
<input type="checkbox"/> Plant: height	tall	tall	tall	tall	tall
<input checked="" type="checkbox"/> Plant: number of primary branches	medium	medium	low	medium	medium
<input type="checkbox"/> Leaf: pubescence	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> Leaf: Intensity of green colour on upper side	dark	dark	dark	dark	medium
<input type="checkbox"/> Petiole: length	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf: length of central petiolule	medium	medium	medium	medium	medium to long
<input type="checkbox"/> Leaf: shape of terminal leaflet	deltate	deltate	deltate	deltate	deltate
<input checked="" type="checkbox"/> Leaf: length of terminal leaflet	long	long	long	long	very long
<input checked="" type="checkbox"/> Leaf: width of terminal leaflet	broad	broad	broad	broad	very broad
<input type="checkbox"/> Peduncle: length	medium	medium	medium	medium	medium
<input type="checkbox"/> Flower: colour of standard	yellowish-green	yellowish-green	yellowish-green	yellowish-green	yellowish-green
<input type="checkbox"/> Flower: colour of wings	greenish-yellow	greenish-yellow	greenish-yellow	greenish-yellow	greenish-yellow
<input type="checkbox"/> Inflorescence: predominant position relative to canopy	level	level	level	level	level
<input checked="" type="checkbox"/> Mature pod: colour	black	black	black	brown	black
<input checked="" type="checkbox"/> Inflorescence: number of pods per axillary inflorescence (or hand)	medium to many	many	few to medium	many	many
<input type="checkbox"/> Pod: pubescence	medium	medium	medium	medium	medium
<input type="checkbox"/> Pod: shattering	absent	absent	absent	absent	absent
<input checked="" type="checkbox"/> Mature pod: length	medium to long	long to very long	long to very long	medium to long	short to medium
<input type="checkbox"/> Mature pod: curvature	slightly curved	slightly curved	slightly curved	slightly curved	slightly curved
<input checked="" type="checkbox"/> Mature pod: shape in cross section	semi-flat	semi-flat	semi-flat	semi-flat	round
<input checked="" type="checkbox"/> Mature pod: shape of beak	pointed	pointed	pointed	pointed	hook
<input checked="" type="checkbox"/> Mature pod: number of seeds per pod	medium	high	high	medium to high	high to very high
<input type="checkbox"/> Seed: shape	ovoid	ovoid	ovoid	ovoid	ovoid
<input type="checkbox"/> Seed: hilum shape	non-	non-	non-	non-	non-

<input type="checkbox"/> Seed: colour	concave (aril not prominent) green-yellow				
<input type="checkbox"/> Seed: lustre of surface	present (shiny)				
<input type="checkbox"/> Seed: mottling on surface	absent or very low				
<input type="checkbox"/> Seed: size	medium to large	large	large	medium to large	medium
<input type="checkbox"/> Seed: colour (RHS)	144B	144A	146B	144A	144A-146B
<input checked="" type="checkbox"/> Mature pod: colour (RHS)	202A	202A	202A	200A	202A
<input type="checkbox"/> Flower: colour of wings (RHS)	1B	1B	1B	1C	1B
<input type="checkbox"/> Flower: colour of standard petal (RHS)	145B	145C	144B-C	145C	149D-150C
<input checked="" type="checkbox"/> Leaf: colour of upper side (RHS)	131A	132A	132A	132A	N134A-135B

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'AGV1011'	'AGV1015''Crystal'	'Jade-AU'	'Opal-AU'
<input checked="" type="checkbox"/> Petiole: anthocyanin coloration at base (point of attachment to stem)	absent	absent	absent	absent
<input checked="" type="checkbox"/> Petiolule: anthocyanin coloration at points of attachment to leaflets	absent	absent	absent	absent
<input type="checkbox"/> Flowering: days to first open flowers	medium	medium	medium	medium
<input type="checkbox"/> Peduncle: pubescence	dense	dense	dense	dense
<input type="checkbox"/> Immature pod: anthocyanin coloration of ventral suture	absent	absent	absent	absent
<input type="checkbox"/> Pod: attitude (pod attachment to peduncle)	erect to semi-pendulous	erect to semi-pendulous	erect to semi-pendulous	erect to semi-pendulous
<input type="checkbox"/> Mature pod: constriction between seeds	absent or very slight			
<input checked="" type="checkbox"/> Seedling: hypocotylanthocyanin	anthocyanin	anthocyanin	anthocyanin	mixed (some plants showing anthocyanin absent and others with anthocyanin present)

coloration	absent	absent	absent	absent	plants showing anthocyanin absent and others with anthocyanin present)
<input type="checkbox"/> Seedling: shape of first unifoliate leaf	lanceolate	lanceolate	lanceolate	lanceolate	lanceolate
<input type="checkbox"/> Plant: branching pattern (predominant location of branches)	towards the base				
<input checked="" type="checkbox"/> Stem: anthocyanin coloration	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input type="checkbox"/> Stem: pubescence	dense	dense	dense	dense	dense
<input type="checkbox"/> Petiole: pubescence	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> Petiole: anthocyanin coloration	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)
<input checked="" type="checkbox"/> Petiole: anthocyanin coloration at top (point of attachment to leaf)	absent	absent	absent	absent	mixed (some plants showing anthocyanin absent and others with anthocyanin present)

Statistical Table

Organ/Plant Part: Context	'AGV1011'	'AGV1015'	'Crystal'	'Jade-AU'	'Opal-AU'
<input type="checkbox"/> Plant: days from sowing to flowering					
Mean	41.25	41.50	42.00	40.00	41.50
Std. Deviation	0.50	0.58	0.82	0.82	0.58
Lsd/sig	1.26	ns	ns	ns	ns
<input type="checkbox"/> Plant: mature height (cm)					
Mean	76.10	77.30	81.40	76.28	79.02
Std. Deviation	8.64	8.92	11.72	7.91	11.66
Lsd/sig	9.60	ns	ns	ns	ns
<input type="checkbox"/> Plant: number of nodes on main stem					
Mean	9.25	9.53	9.84	9.22	9.69
Std. Deviation	0.51	0.67	0.63	0.79	0.59
Lsd/sig	0.56	ns	ns	ns	ns
<input checked="" type="checkbox"/> Plant: number of primary branches on main stem					
Mean	3.53	3.41	2.72	3.25	3.75
Std. Deviation	0.80	0.84	0.77	1.02	0.98
Lsd/sig	0.64	ns	P≤0.01	ns	ns

<input type="checkbox"/> Trifoliolate leaf: petiole length (mm)					
Mean	215.47	212.50	223.97	208.69	207.00
Std. Deviation	21.57	17.73	22.46	21.26	21.21
Lsd/sig	14.95	ns	ns	ns	ns
<input type="checkbox"/> Trifoliolate leaf: petiolule length (subtending terminal leaflet) (mm)					
Mean	56.59	55.22	56.38	54.22	58.81
Std. Deviation	6.63	5.64	7.35	5.86	7.11
Lsd/sig	4.80	ns	ns	ns	ns
<input checked="" type="checkbox"/> Trifoliolate leaf: terminal leaflet length (mm)					
Mean	164.68	163.66	169.75	161.84	192.75
Std. Deviation	12.26	15.04	18.06	11.56	16.42
Lsd/sig	12.77	ns	ns	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: terminal leaflet width (mm)					
Mean	149.25	147.50	165.66	146.50	166.75
Std. Deviation	14.73	12.74	16.92	10.78	16.01
Lsd/sig	12.77	ns	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: terminal leaflet length:width ratio					
Mean	1.11	1.11	1.03	1.11	1.16
Std. Deviation	0.07	0.05	0.06	0.09	0.07
Lsd/sig	0.05	ns	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: lateral leaflet length (mm)					
Mean	167.16	162.59	172.19	162.22	195.09
Std. Deviation	9.89	12.73	14.35	11.09	13.11
Lsd/sig	11.76	ns	ns	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: lateral leaflet width (mm)					
Mean	132.31	126.78	144.09	126.81	150.63
Std. Deviation	10.26	10.93	13.56	10.75	11.27
Lsd/sig	11.68	ns	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: lateral leaflet length:width ratio					
Mean	1.27	1.29	1.20	1.28	1.30
Std. Deviation	0.06	0.08	0.06	0.08	0.06
Lsd/sig	0.06	ns	P≤0.01	ns	ns
<input type="checkbox"/> Inflorescence: peduncle length (cm)					
Mean	27.56	27.21	28.18	27.96	27.42
Std. Deviation	3.70	3.51	4.20	3.93	3.79
Lsd/sig	3.03	ns	ns	ns	ns
<input type="checkbox"/> Inflorescence: number of pods per hand					
Mean	3.75	4.00	3.47	3.94	4.13
Std. Deviation	0.62	0.44	0.76	0.72	0.61
Lsd/sig	0.39	ns	ns	ns	ns
<input checked="" type="checkbox"/> Pod: length (mm)					
Mean	112.94	117.77	116.02	114.88	96.53
Std. Deviation	1.97	1.91	3.36	2.29	2.10
Lsd/sig	2.91	P≤0.01	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Pod: width (mm)					
Mean	6.49	6.70	6.94	6.67	5.74
Std. Deviation	0.18	0.27	0.35	0.26	0.10

Lsd/sig	0.22	ns	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Pod: depth (mm)					
Mean	5.44	5.40	5.12	5.44	5.52
Std. Deviation	0.21	0.21	0.26	0.19	0.14
Lsd/sig	0.23	ns	P≤0.01	ns	ns
<input checked="" type="checkbox"/> Pod: width:depth ratio					
Mean	1.20	1.24	1.36	1.23	1.04
Std. Deviation	0.06	0.07	0.11	0.06	0.03
Lsd/sig	0.08	ns	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Pod: number of seeds per pod					
Mean	13.47	14.16	14.16	13.75	14.42
Std. Deviation	0.55	0.30	0.43	0.57	0.44
Lsd/sig	0.52	P≤0.01	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Pod: number of seeds per cm of pod					
Mean	1.19	1.20	1.22	1.20	1.49
Std. Deviation	0.04	0.03	0.05	0.04	0.04
Lsd/sig	0.05	ns	ns	ns	P≤0.01
<input type="checkbox"/> Pod: seed weight per pod (g)					
Mean	0.82	0.86	0.84	0.83	0.77
Std. Deviation	0.03	0.04	0.06	0.02	0.03
Lsd/sig	0.08	ns	ns	ns	ns
<input type="checkbox"/> Seed: 100-seed weight (g)					
Mean	6.56	6.67	6.80	6.51	6.27
Std. Deviation	0.12	0.16	0.33	0.23	0.06
Lsd/sig	0.36	ns	ns	ns	ns

Prior Applications and Sales:

Nil

Description: D.S. Loch, Alexandra Hills, QLD

Details of Application

Application Number	2019/156
Variety Name	'Opal-AU'
Genus Species	<i>Vigna radiata</i> var. <i>radiata</i>
Common Name	Mung Bean
Accepted Date	03 Mar 2020
Applicant	Grains Research and Development Corporation, The State of Queensland through the Department of Agriculture & Fisheries
Qualified Person	Dr Donald S. Loch

Details of Comparative Trial

Location	Cleveland, QLD (Latitude 27°31'S, longitude 153°15'E, elevation 26 masl)
Descriptor	PBR Mungbean
Period	22 Nov 2021 – 22 Feb 2022
Conditions	Experiment situated on a red volcanic (krasnozem or ferrosol) soil; seed sown into dry soil on 22 Nov 2021 prior to germinating rain on 23 Nov 2021; weed control by pre-emergence pendimethalin (Stomp® Xtra) pre-planting on 18 Nov 2021; 313 kg/ha of blended fertiliser (N:P:K:S = 12.8:14.2:11.9:6.4) applied after planting on 24 Nov 2021 to give 40 kg N, 44 kg P, 37 kg K, and 20 kg S per hectare; watered with a slurry of Cowpea inoculant (Group I – CB1015) on 25 Nov 2021; supplementary irrigation applied as required to maintain unstressed growth. Sprayed with chlorantraniliprole (Acelepryn®) + deltamethrin (Ballistic® Elite) to protect flowers and pods (8 and 23 Dec 2021, 5 and 23 Jan 2022); sprayed with azoxystrobin (Amistar® 250 SC) + metalaxyl-M (Ridomil® Gold 480 EC) to control suspected charcoal rot.
Trial Design	Mini-sward rows of 5 cultivars ('Opal-AU', 'AGV1011', 'AGV1015', 'Crystal', 'Jade-AU') plus second-generation plots of 3 cultivars ('Opal-AU', 'AGV1011', 'AGV1015') were arranged in 4 randomised blocks; ±20 plants per 1.5 m mini-sward plot seeded at c. 7.5 cm spacing along a single 64 m row; 0.5 m between mini-sward plots.
Measurements	Days to flowering determined progressively for each plot (1-5 Jan 2022). Measurements (eight per plot) made of leaflet length and width on fully expanded leaves from the third node below the tip of the main stem (13-18 Jan 2021). Mature plant height, numbers of main stem nodes, and primary branches determined on eight plants per plot (21-22 Feb 2022). Pod length, width and depth measured on 16 well-developed seeded pods per plot (25-28 Jan 2022). Seed size determined after sun drying for sub-samples of 200 seeds per plot. Analyses of variance (ANOVAs) conducted with GenStat Release 12.
RHS Chart - edition	2015 (6th edition)

Origin and Breeding

Controlled pollination and seedling selection: 'Opal-AU' (breeders' code M12036) is derived from a cross between a high yielding, well-adapted large-green-shiny-seeded breeding line M07032 and a halo blight tolerant donor germplasm accession AGG 321818 MUNG. A single cross was made in 2008, and one F₁ individual grown out as an F₂ field plot in the summer of 2009. Material was advanced by bulk through the next two summers to F₄. The candidate line is derived from a single

resistant plant selected under artificially inoculated halo blight disease pressure at Kingaroy (QLD) in the summer of 2011. As an F₅ with the genotype name MAUS08-067>F4KNGR4HB12, the candidate variety was subjected to parallel agronomic evaluation (DAF Hermitage) and validation of disease reaction (DAF Kingaroy) in 2012. With status confirmed as an agronomically -adapted line carrying halo blight resistance, the candidate variety (designated M12036) was progressed to replicated regional yield trials from northern NSW to central Queensland between 2013 and 2018. Breeders: Colin A. Douglas & Dr Merrill J. Ryan, Queensland Department of Agriculture and Fisheries, Warwick, QLD.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	height	tall
Plant	number of primary branches	low - medium
Seed	colour	green
Seed	size	medium - large
Seed	lustre of surface	shiny

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Crystal'	PBR Application No. 2007/308
'Jade-AU'	PBR Application No. 2012/023
'AGV1011'	PBR Application No. 2018/270
'AGV1015'	PBR Application No. 2021/094

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Satin 2'	seed	lustre of surface	shiny	dull	PBR Application No. 2008/253
'Celera II-AU'	seed	size	medium	small	PBR Application No. 2013/202
'Green Diamond'	seed	size	medium	small	PBR Application No. 1997/144
'Berken'	plant	height	tall	medium	Released in 1975
'Berken'	plant	number of primary branches	medium	very low	
'Emerald'	seed	size	medium	small	PBR Application No. 1992/165
'Emerald'	plant	number of primary branches	medium	very low	
'Black Pearl'	seed	colour	green	black	PBR Application No. 1994/081

'Onyx-AU'	seed	colour	green	black
'Regur'	seed	colour	green	black

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Opal-AU'	'AGV1011'	'AGV1015'	'Crystal'	'Jade-AU'
<input type="checkbox"/> Plant: growth habit	erect	erect	erect	erect	erect
<input type="checkbox"/> Plant: growth type	determinate	determinate	determinate	determinate	determinate
<input type="checkbox"/> Plant: twining tendency	absent	absent	absent	absent	absent
<input type="checkbox"/> Plant: height	tall	tall	tall	tall	tall
<input checked="" type="checkbox"/> Plant: number of primary branches	medium	medium	medium	low	medium
<input type="checkbox"/> Leaf: pubescence	medium	medium	medium	medium	medium
<input checked="" type="checkbox"/> Leaf: intensity of green colour on upper side	medium	dark	dark	dark	dark
<input type="checkbox"/> Petiole: length	medium	medium	medium	medium	medium
<input type="checkbox"/> Leaf: length of central petiolule	medium to long	medium	medium	medium	medium
<input type="checkbox"/> Leaf: shape of terminal leaflet	deltate	deltate	deltate	deltate	deltate
<input checked="" type="checkbox"/> Leaf: length of terminal leaflet	very long	long	long	long	long
<input checked="" type="checkbox"/> Leaf: width of terminal leaflet	very broad	broad	broad	broad	broad
<input type="checkbox"/> Peduncle: length	medium	medium	medium	medium	medium
<input type="checkbox"/> Flower: colour of standard	yellowish-green	yellowish-green	yellowish-green	yellowish-green	yellowish-green
<input type="checkbox"/> flower: colour of wings	greenish-yellow	greenish-yellow	greenish-yellow	greenish-yellow	greenish-yellow

<input type="checkbox"/>					
Inflorescence: predominant position relative to canopy	level	level	level	level	level
<input checked="" type="checkbox"/> Mature pod: colour	black	black	black	black	brown
<input checked="" type="checkbox"/>					
Inflorescence: number of pods per axillary inflorescence (or hand)	many	medium to many	many	few to medium	many
<input type="checkbox"/> Pod: pubescence	medium	medium	medium	medium	medium
<input type="checkbox"/> pod: shattering	absent	absent	absent	absent	absent
<input checked="" type="checkbox"/> Mature pod: length	short to medium	medium to long	long to very long	long to very long	medium to long
<input type="checkbox"/> Mature pod: curvature	slightly curved				
<input checked="" type="checkbox"/> Mature pod: shape in cross section	round	semi-flat	semi-flat	semi-flat	semi-flat
<input checked="" type="checkbox"/> Mature pod: shape of beak	hook	pointed	pointed	pointed	pointed
<input checked="" type="checkbox"/> Mature pod: number of seeds per pod	high to very high	medium	high	high	medium to high
<input type="checkbox"/> Seed: shape	ovoid	ovoid	ovoid	ovoid	ovoid
<input type="checkbox"/> Seed: hilum shape	non-concave (aril not prominent)				
<input type="checkbox"/> Seed: colour	green-yellow	green-yellow	green-yellow	green-yellow	green-yellow
<input type="checkbox"/> Seed: lustre of surface	present (shiny)				
<input type="checkbox"/> Seed: mottling on surface	absent or very low				
<input checked="" type="checkbox"/> Seed: size	medium	medium to large	large	large	medium to large
<input type="checkbox"/> Seed: colour (RHS)	144A-146B	144B	144A	146B	144A
<input checked="" type="checkbox"/> Mature pod: colour (RHS)	202A	202A	202A	202A	200A
<input type="checkbox"/> Flower:	1B	1B	1B	1B	1C

colour of wings (RHS)					
<input type="checkbox"/> Flower: colour of standard petal (RHS)	149D-150C	145B	145C	144B-C	145C
<input checked="" type="checkbox"/> Leaf: colour of upper side (RHS)	N134A-135B	131A	132A	132A	132A

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Opal-AU'	'AGV1011'	'AGV1015'	'Crystal'	'Jade-AU'
<input type="checkbox"/> Seedling: hypocotyl coloration	mixed (some plants showing anthocyanin absent and others with anthocyanin present)	anthocyanin absent	anthocyanin absent	anthocyanin absent	anthocyanin absent
<input type="checkbox"/> Seedling: shape of first unifoliate leaf	lanceolate	lanceolate	lanceolate	lanceolate	lanceolate
<input type="checkbox"/> Plant: branching pattern (predominant location of branches)	towards the base	towards the base	towards the base	towards the base	towards the base
<input type="checkbox"/> Stem: anthocyanin coloration	mixed (some plants showing anthocyanin absent and others with anthocyanin present)	absent	absent	absent	absent
<input type="checkbox"/> Stem: pubescence	dense	dense	dense	dense	dense
<input type="checkbox"/> Petiole: pubescence	medium	medium	medium	medium	medium
<input type="checkbox"/> Petiole: anthocyanin coloration	mixed (some plants showing anthocyanin absent and others with anthocyanin present)	absent	absent	absent	absent

<input type="checkbox"/> Petiole: anthocyanin coloration at base (point of attachment to stem)	mixed (some plants showing anthocyanin absent and others with anthocyanin present)	absent	absent	absent	absent
<input type="checkbox"/> Petiole: anthocyanin coloration at top (point of attachment to leaf)	mixed (some plants showing anthocyanin absent and others with anthocyanin present)	absent	absent	absent	absent
<input type="checkbox"/> Petiolule: anthocyanin coloration at points of attachment to leaflets	mixed (some plants showing anthocyanin absent and others with anthocyanin present)	absent	absent	absent	absent
<input type="checkbox"/> Flowering: days to first open flowers	medium	medium	medium	medium	medium
<input type="checkbox"/> Peduncle: pubescence	dense	dense	dense	dense	dense
<input type="checkbox"/> Immature pod: anthocyanin coloration of ventral suture	absent	absent	absent	absent	absent
<input type="checkbox"/> Pod: attitude (pod attachment to peduncle)	erect to semi-pendulous	erect to semi-pendulous	erect to semi-pendulous	erect to semi-pendulous	erect to semi-pendulous
<input type="checkbox"/> Mature pod: constriction between seeds	absent or very slight	absent or very slight	absent or very slight	absent or very slight	absent or very slight

Statistical Table

Organ/Plant Part: Context	'Opal-AU'	'AGV1011'	'AGV1015'	'Crystal'	'Jade-AU'
<input checked="" type="checkbox"/> Plant: days from sowing to flowering					
Mean	41.50	41.25	41.50	42.00	40.00
Std. Deviation	0.58	0.50	0.58	0.82	0.82
Lsd/sig	1.26	ns	ns	ns	P<0.01
<input type="checkbox"/> Plant: mature height (cm)					
Mean	79.02	76.11	77.30	81.40	76.28
Std. Deviation	11.66	8.64	8.92	11.72	7.91

Lsd/sig	9.60	ns	ns	ns	ns
<input type="checkbox"/> Plant: number of nodes on main stem					
Mean	9.69	9.25	9.53	9.84	9.22
Std. Deviation	0.59	0.51	0.67	0.63	0.79
Lsd/sig	0.56	ns	ns	ns	ns
<input checked="" type="checkbox"/> Plant: number of primary branches on main stem					
Mean	3.75	3.53	3.41	2.72	3.25
Std. Deviation	0.98	0.80	0.84	0.77	1.02
Lsd/sig	0.64	ns	ns	P≤0.01	ns
<input checked="" type="checkbox"/> Trifoliolate leaf: petiole length (mm)					
Mean	207.00	215.47	212.50	223.97	208.69
Std. Deviation	21.21	21.57	17.73	22.46	21.26
Lsd/sig	14.95	ns	ns	P≤0.01	ns
<input type="checkbox"/> Trifoliolate leaf: petiolule length (subtending terminal leaflet) (mm)					
Mean	58.81	56.59	55.22	56.38	54.22
Std. Deviation	7.11	6.63	5.64	7.35	5.86
Lsd/sig	4.80	ns	ns	ns	ns
<input checked="" type="checkbox"/> Trifoliolate leaf: terminal leaflet length (mm)					
Mean	192.75	164.88	163.66	169.75	161.84
Std. Deviation	16.42	12.26	15.04	18.06	11.56
Lsd/sig	12.77	P≤0.01	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: terminal leaflet width (mm)					
Mean	166.75	149.25	147.50	165.66	146.50
Std. Deviation	16.01	14.73	12.74	16.92	10.78
Lsd/sig	12.77	P≤0.01	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: terminal leaflet length:width ratio					
Mean	1.16	1.11	1.11	1.03	1.11
Std. Deviation	0.07	0.07	0.05	0.06	0.09
Lsd/sig	0.05	P≤0.01	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: lateral leaflet length (mm)					
Mean	195.09	167.16	162.59	172.19	162.22
Std. Deviation	13.11	9.89	12.73	14.35	11.09
Lsd/sig	11.76	P≤0.01	P≤0.01	P≤0.01	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: lateral leaflet width (mm)					
Mean	150.63	132.31	126.78	144.09	126.81
Std. Deviation	11.27	10.26	10.93	13.56	10.75
Lsd/sig	11.68	P≤0.01	P≤0.01	ns	P≤0.01
<input checked="" type="checkbox"/> Trifoliolate leaf: lateral leaflet length:width ratio					
Mean	1.30	1.27	1.29	1.20	1.28
Std. Deviation	0.06	0.06	0.08	0.06	0.08
Lsd/sig	0.06	ns	ns	P≤0.01	ns
<input type="checkbox"/> Inflorescence: peduncle length (cm)					
Mean	27.42	27.56	27.21	28.18	27.96
Std. Deviation	3.79	3.70	3.51	4.20	3.93
Lsd/sig	3.03	ns	ns	ns	ns
<input checked="" type="checkbox"/> Inflorescence: number of pods per hand					
Mean	4.13	3.75	4.00	3.47	3.94

Std. Deviation	0.61	0.62	0.44	0.76	0.72
Lsd/sig	0.39	ns	ns	P≤0.01	ns
☒ Pod: length (mm)					
Mean	96.53	112.94	117.77	116.02	114.88
Std. Deviation	2.10	1.97	1.91	3.36	2.29
Lsd/sig	2.91	P≤0.01	P≤0.01	P≤0.01	P≤0.01
☒ Pod: width (mm)					
Mean	5.74	6.49	6.70	6.94	6.67
Std. Deviation	0.10	0.18	0.27	0.35	0.26
Lsd/sig	0.22	P≤0.01	P≤0.01	P≤0.01	P≤0.01
☒ Pod: depth (mm)					
Mean	5.52	5.44	5.40	5.12	5.44
Std. Deviation	0.14	0.21	0.21	0.26	0.19
Lsd/sig	0.23	ns	ns	P≤0.01	ns
☒ Pod: width:depth ratio					
Mean	1.04	1.20	1.24	1.36	1.23
Std. Deviation	0.03	0.06	0.07	0.11	0.06
Lsd/sig	0.08	P≤0.01	P≤0.01	P≤0.01	P≤0.01
☒ Pod: number of seeds per pod					
Mean	14.42	13.47	14.16	14.16	13.75
Std. Deviation	0.44	0.55	0.30	0.43	0.57
Lsd/sig	0.52	P≤0.01	ns	ns	P≤0.01
☒ Pod: number of seeds per cm of pod					
Mean	1.49	1.19	1.20	1.22	1.20
Std. Deviation	0.04	0.04	0.03	0.05	0.04
Lsd/sig	0.05	P≤0.01	P≤0.01	P≤0.01	P≤0.01
☒ Pod: seed weight per pod (g)					
Mean	0.77	0.82	0.86	0.84	0.83
Std. Deviation	0.03	0.03	0.04	0.06	0.02
Lsd/sig	0.08	ns	P≤0.01	ns	ns
☒ Seed: 100-seed weight (g)					
Mean	6.27	6.56	6.67	6.80	6.51
Std. Deviation	0.06	0.12	0.16	0.33	0.23
Lsd/sig	0.36	ns	P≤0.01	P≤0.01	ns

Prior Applications and Sales:

Nil

Description: Dr Donald S. Loch, Alexandra Hills, QLD

Details of Application

Application Number	2017/149
Variety Name	'Red Bright II'
Genus Species	<i>Prunus persica</i> var <i>nucipersica</i>
Common Name	Nectarine
Synonym	Spring Blush
Accepted Date	10 Jul 2017
Applicant	Lowell Glen Bradford, California, USA
Agent	Montague Fresh, Narre Warren North, Vic 3804
Qualified Person	Krys Lockhart

Details of Comparative Trial

Overseas Testing Authority	USPTO
Overseas Data Reference Number	USPP PP29127
Location	Le Grand, Merced Country, CA and Katunga, Vic 3640
Descriptor	UPOV TG TG/53/7
Period	as per USPP PP29127 and till 2019 in Australia
Conditions	Normal growing conditions were experienced. Standard horticultural practice was use for the duration of the trial. Irrigation was used on an as need basis.
Trial Design	Verification trial in Australia to confirm the states of expression provided in the US patent. Ten trees of the candidate and comparator planted on 2.5m spacings.
Measurements	Observations and measurements were collected following UPOV TG

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The new variety is a first generation cross using '5P452' white fleshed nectarine as the selected seed parent and 'Kay Diamond VII' as the selected pollen parent. The fruit resulting from this cross was harvested and the seeds collected, cracked, and stratified and planted in greenhouse. From there the seedlings were planted into a cultivated area of the experimental orchard at Bradford Farms. In 2012 the new variety was selected as a single tree from this population. After the origination of the new variety, it was asexually reproduced through budding and grafting and such reproduction of tree and fruit characteristics were true to the original in all respects. Breeder: Lowell Glen Bradford, California, USA

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	anthocyanin colouration	strong
Fruit	size	large
Flower	beginning of flowering	medium
Fruit	hue of over colour of skin	dark red
Fruit	carotenoid colouration of flesh	orange yellow

Fruit	firmness of flesh	firm
-------	-------------------	------

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Spring Bright'	Yellow fleshed nectarine maturing at the same time.
'Spring Sweet'	Yellow fleshed nectarine maturing at the same time.
'Rose Bright'	Yellow fleshed nectarine from the same breeding program.
'Grand Bright'	Yellow fleshed nectarine from the same breeding program.

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Spring Sweet'	fruit	acidity	medium	low	excluded because of different flavour.
'Grand Bright'	fruit	maturity	early	medium	excluded because it matures 14 days later.
'Rose Bright'	leaf	width	broad	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Red Bright II'	'Spring Bright'
<input type="checkbox"/> *Tree: size	large	large
<input type="checkbox"/> Tree: vigour	strong	strong
<input type="checkbox"/> *Tree: habit	spreading	spreading
<input type="checkbox"/> Flowering shoot: thickness	medium	medium
<input type="checkbox"/> Flowering shoot: length of internodes	medium	medium
<input type="checkbox"/> Flowering shoot: presence of anthocyanin colouration	present	present
<input type="checkbox"/> Flowering shoot: intensity of anthocyanin colouration	medium to strong	medium to strong
<input type="checkbox"/> Flowering shoot: density of flower buds	medium	medium
<input type="checkbox"/> *Flower: type	rosette	
<input type="checkbox"/> *Corolla: main colour (inner side)	medium pink	medium pink
<input type="checkbox"/> *Petal: shape	circular	circular
<input type="checkbox"/> Petal: width (varieties with flower type: campanulate only)	broad	broad
<input type="checkbox"/> *Petal: width (varieties with flower type: rosette only)	broad	broad
<input type="checkbox"/> *Flower: number of petals	five	five
<input type="checkbox"/> Stamen: position compared to petals	at same level	at same level
<input type="checkbox"/> *Stigma: position compared to anthers	same level	same level

<input type="checkbox"/> *Anthers: pollen	present	present
<input type="checkbox"/> *Ovary: pubescence	absent	absent
<input type="checkbox"/> Stipule: length	medium	medium
<input type="checkbox"/> *Leaf blade: length	medium	medium
<input type="checkbox"/> *Leaf blade: width	large	medium
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium
<input type="checkbox"/> Leaf blade: shape in cross section	concave	concave
<input type="checkbox"/> Leaf blade: margin	shallow serrate	shallow serrate
<input type="checkbox"/> Leaf blade: angle at base	acute	acute
<input type="checkbox"/> Leaf blade: angle at apex	very small to small	very small to small
<input type="checkbox"/> Leaf blade: colour	medium green	medium green
<input type="checkbox"/> Leaf blade: red mid vein on the lower side	absent	absent
<input type="checkbox"/> Petiole: length	medium	medium
<input type="checkbox"/> *Petiole: nectaries	present	present
<input type="checkbox"/> *Petiole: shape of nectaries	round	round
<input checked="" type="checkbox"/> *Fruit: size	large	medium
<input type="checkbox"/> *Fruit: shape (in ventral view)	circular	circular
<input type="checkbox"/> Fruit: mucron tip at pistil end	absent	absent
<input type="checkbox"/> Fruit: shape of pistil end (excluding mucron tip)	weakly depressed	weakly depressed
<input type="checkbox"/> Fruit: symmetry (viewed from pistil end)	symmetric	symmetric
<input type="checkbox"/> Fruit: prominence of suture	medium	weak to medium
<input type="checkbox"/> Fruit: depth of stalk cavity	medium	medium
<input type="checkbox"/> Fruit: width of stalk cavity	medium	medium
<input type="checkbox"/> *Fruit: ground colour of skin	orange yellow	orange yellow
<input type="checkbox"/> *Fruit: relative area of over colour of skin	large to very large	large to very large
<input type="checkbox"/> Fruit: hue of over colour of skin	dark red	dark red
<input type="checkbox"/> Fruit: pattern of over colour of skin	solid flush	solid flush
<input type="checkbox"/> *Fruit: pubescence of skin	absent	absent
<input type="checkbox"/> Fruit: glossiness (varieties with fruit pubescence: absent only)	strong	strong
<input type="checkbox"/> Fruit: conspicuousness of lenticels (varieties with fruit pubescence: absent only)	medium	weak
<input type="checkbox"/> Fruit: thickness of skin	medium	medium
<input type="checkbox"/> Fruit: adherence of skin to flesh	strong	strong
<input type="checkbox"/> *Fruit: firmness of flesh	firm	firm
<input type="checkbox"/> *Fruit: carotenoid colouration of flesh	yellow	yellow
<input type="checkbox"/> *Fruit: anthocyanin colouration of flesh next to skin	strong	
<input checked="" type="checkbox"/> *Fruit: anthocyanin colouration of flesh in	strong	absent or very weak

central part of flesh

<input checked="" type="checkbox"/> *Fruit: anthocyanin colouration of flesh around stone	medium	absent or weak
<input type="checkbox"/> Fruit: flesh fibre	moderate	moderate
<input checked="" type="checkbox"/> Fruit: sweetness	high	medium
<input type="checkbox"/> *Fruit: acidity	medium	medium
<input type="checkbox"/> *Stone: size compared to fruit	medium	medium
<input type="checkbox"/> *Stone: shape (in lateral view)	elliptic	elliptic
<input type="checkbox"/> Stone: anthocyanin colouration	medium to strong	very weak to weak
<input type="checkbox"/> Stone: intensity of brown colour	medium	medium
<input type="checkbox"/> Stone: relief of surface	equally pits and grooves	equally pits and grooves
<input type="checkbox"/> Stone: tendency to split	very low to low	very low to low
<input type="checkbox"/> *Stone: adherence to flesh	present	present
<input type="checkbox"/> Stone: degree of adherence to flesh	strong	strong
<input type="checkbox"/> Time of beginning of leaf bud burst	early to medium	early to medium
<input type="checkbox"/> *Time of beginning of flowering	early to medium	early to medium
<input type="checkbox"/> *Time of maturity for consumption	early	early

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Red Bright II'	'Spring Bright'
<input type="checkbox"/> Flower: self-incompatibility	absent	absent
<input type="checkbox"/> Kernel: taste	sweet	sweet

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2016	granted	'Pearl Princess XIII'

No prior sale.

Description: **Peter Buchanan**, Buchanan's Nursery, QLD

Details of Application

Application Number	2015/293
Variety Name	'IceZee'
Genus Species	<i>Prunus persica</i>
Common Name	Peach
Accepted Date	16 Feb 2016
Applicant	Zaiger's Inc. Genetics, Modesto, CA, USA
Agent	Graham's Factree Pty Ltd, Hoddles Creek, Vic., Australia
Qualified Person	Rebecca Fleming

Details of Comparative Trial

Overseas Testing Authority	United States of America Patent and Trademark Office
Overseas Data Reference Number	US 20160219773P1
Location	Verification trial was located in Yellingbo, Vic., Australia
Descriptor	TG/53/7
Period	
Conditions	Where possible, overseas data on the fruit characteristics have been verified under local growing conditions.
Trial Design	Trial consisting of five plants each of the candidate and comparator variety was planted in rows in standard orchard setting and received standard fertiliser and other agronomic treatments.
Measurements	Measurements were taken in the metric system following the UPOV TG

RHS Chart - edition**Origin and Breeding**

Open Pollination: '62MA130' The present new and distinct variety of peach tree was originated by Zaiger's Inc. Genetics at their experimental orchard near Modesto, California. A large number of these open pollinated seedlings were budded onto older established trees of 'Nemaguard' Rootstock (non-patented) to enhance earlier fruit production. Under close and careful evaluation, we recognized the desirable tree and fruit characteristics and selected it in 2006 for additional asexual propagation and commercialization. Breeders: Zaiger's Inc. Genetics, Modesto, CA, USA

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Tree	size	large
Petiole	nectaries	present
Petiole	shape of nectaries	reniform
Fruit	shape (in ventral view)	circular
Fruit	pubescence of skin	present
Fruit	carotenoid colouration of flesh	white
Time of	maturity (for consumption)	very early to early

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Spring Snow'	

Varieties of Common Knowledge identified and subsequently excluded

Variety	Distinguishing Characteristics	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Snow Bliss' fruit	carotenoid colouration of flesh	white	orange	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X.

Organ/Plant Part: Context	'IceZee'	'Spring Snow'
<input type="checkbox"/> *Tree: size	large	large
<input type="checkbox"/> Tree: vigour	strong	strong
<input type="checkbox"/> *Tree: habit	upright	upright
<input type="checkbox"/> *Flower: type	rosette (showy)	
<input type="checkbox"/> Stamen: position compared to petals	above	
<input type="checkbox"/> *Stigma: position compared to anthers	same level	same level
<input type="checkbox"/> *Petiole: nectaries	present	present
<input type="checkbox"/> *Petiole: shape of nectaries	reniform	reniform
<input type="checkbox"/> *Fruit: size	large	large
<input type="checkbox"/> *Fruit: shape (in ventral view)	circular	circular
<input type="checkbox"/> Fruit: mucron tip at pistil end	present	
<input type="checkbox"/> Fruit: shape of pistil end (excluding mucron tip)	weakly depressed	weakly pointed
<input type="checkbox"/> Fruit: prominence of suture	weak	weak
<input type="checkbox"/> Fruit: depth of stalk cavity	deep	shallow to medium
<input type="checkbox"/> Fruit: width of stalk cavity	medium	medium
<input type="checkbox"/> *Fruit: ground colour of skin	greenish white	cream white
<input type="checkbox"/> *Fruit: relative area of over colour of skin	large to very large	large
<input type="checkbox"/> Fruit: hue of over colour of skin	medium red	medium red
<input type="checkbox"/> Fruit: pattern of over colour of skin	mottled	solid flush
<input type="checkbox"/> *Fruit: pubescence of skin	present	present
<input type="checkbox"/> *Fruit: density of pubescence of skin	dense	medium
<input type="checkbox"/> Fruit: glossiness (varieties with fruit pubescence: absent only)	absent or weak	
<input type="checkbox"/> Fruit: conspicuousness of lenticels (varieties with fruit pubescence: absent only)	weak	
<input type="checkbox"/> Fruit: thickness of skin	medium	medium
<input type="checkbox"/> *Fruit: firmness of flesh	firm	firm
<input type="checkbox"/> *Fruit: carotenoid colouration of flesh	white	white

<input type="checkbox"/>	*Fruit: anthocyanin colouration of flesh next to skin	weak	absent or very weak
<input checked="" type="checkbox"/>	*Fruit: anthocyanin colouration of flesh in central part of flesh	strong	absent or very weak
<input checked="" type="checkbox"/>	*Fruit: anthocyanin colouration of flesh around stone	medium	absent or weak
<input type="checkbox"/>	Fruit: sweetness	medium	high
<input type="checkbox"/>	*Fruit: acidity	medium	low
<input type="checkbox"/>	*Stone: size compared to fruit	medium to large	large
<input type="checkbox"/>	Stone: tendency to split	low	low
<input type="checkbox"/>	Stone: adherence to flesh	present	present
<input checked="" type="checkbox"/>	Stone: degree of adherence to flesh	very strong	medium to strong
<input type="checkbox"/>	*Time of: maturity (for consumption)	very early to early	very early to early

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'IceZee'	'Spring Snow'
<input type="checkbox"/> Fruit: chill hours	700	800

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2015	granted	'Ice Zee'

First sold in Australia on 6th Jul 2015.

Description: Rebecca Fleming, Graham's Factree Pty Ltd., Hoddles Creek, VIC.

Details of Application

Application Number	2017/147
Variety Name	'Pearl Princess XIII'
Genus Species	<i>Prunus persica</i>
Common Name	Peach
Synonym	
Accepted Date	10 Jul 2017
Applicant	Lowell Glen Bradford, California, USA
Agent	Montague Fresh, Narre Warren North, Vic 3804
Qualified Person	Krys Lockhart

Details of Comparative Trial

Overseas Testing Authority	USPTO
Overseas Data Reference Number	USPP 27,629
Location	Le Grand, Merced County CA, USA and Katunga, Vic 3640
Descriptor	UPOV TG TG/53/7
Period	As per US patent data and till 2019 in Australia
Conditions	Normal growing conditions were experienced. Standard horticultural practice was use for the duration of the trial. Irrigation was used on an as need basis.
Trial Design	Verification trial in Australia to confirm the states of expression provided in the US patent. Ten trees of the candidate and comparator planted on 2.5m spacings in commercial orchard settings.
Measurements	Observations and measurements were collected following UPOV TG

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The new variety was the result of a first generation cross using 'Diamond Princess' peach as the selected seed parent and an unnamed white fleshed peach and the selected pollen parent. The resulting fruit form this cross was collected and the seeds saved. They were stratified and grown in a greenhouse, from there they were planted as seedlings into a cultivated area of the experimental orchard at Bradford Farms. From this population the new variety was selected as an individual tree. Subsequent to it's selection it was asexually reproduced through budding and grafting and such reproduction of tree and fruit characteristics were true to the original in all respects. Breeder: Lowell Glen Bradford, California, USA

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/PlantContext	State of Expression in Group of Varieties
Part	
Fruit	flesh colour
	white
Fruit	maturity
	late
Flower	bloom time
	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Glacier Princess'	Late white fleshed peach from the same breeding program
'Snow Princess'	White fleshed peach from same breeding program
'August Princess'	Late yellow peach from same breeding program
'Sierra Princess'	White fleshed peach from the same breeding program

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic		State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Snow Princess'	friut	maturity	late/very late	medium/late	Snow Princess matures 35 days earlier
'August Princess'	friut	flesh colour	white	yellow	Excluded because it has yellow and not white flesh
'Sierra Princess'	friut	maturity	late/very late	medium/late	Excluded because it matures 14 days earlier
'Sierra Princess'	leaf	shape of base	acute	rounded to slightly obtuse	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Pearl Princess XIII'	'Glacier Princess'
<input checked="" type="checkbox"/> *Tree: size	medium to large	small
<input checked="" type="checkbox"/> Tree: vigour	strong	medium
<input type="checkbox"/> *Tree: habit	upright to spreading	upright to spreading
<input type="checkbox"/> Flowering shoot: thickness	medium	medium
<input type="checkbox"/> Flowering shoot: length of internodes	medium	medium
<input type="checkbox"/> Flowering shoot: presence of anthocyanin colouration	present	present
<input type="checkbox"/> Flowering shoot: intensity of anthocyanin colouration	medium to strong	medium to strong
<input type="checkbox"/> Flowering shoot: density of flower buds	medium	medium
<input type="checkbox"/> *Flower: type	rosette	
<input type="checkbox"/> *Corolla: main colour (inner side)	medium pink	medium pink
<input type="checkbox"/> *Petal: shape	circular	circular
<input type="checkbox"/> Petal: width (varieties with flower type only)	medium	medium
<input type="checkbox"/> *Petal: width (varieties with flower type: rosette only)	medium	medium

<input type="checkbox"/> *Flower: number of petals	five	five
<input type="checkbox"/> Stamen: position compared to petals	at same level	at same level
<input type="checkbox"/> *Stigma: position compared to anthers	same level	same level
<input type="checkbox"/> *Anthers: pollen	present	present
<input type="checkbox"/> *Ovary: pubescence	present	present
<input type="checkbox"/> Stipule: length	medium	medium
<input type="checkbox"/> *Leaf blade: length	medium to long	medium to long
<input type="checkbox"/> *Leaf blade: width	medium to broad	medium to broad
<input type="checkbox"/> *Leaf blade: ratio length/width	medium	medium
<input type="checkbox"/> Leaf blade: shape in cross section	concave	concave
<input type="checkbox"/> Leaf blade: margin	shallow serrate	shallow serrate
<input type="checkbox"/> Leaf blade: angle at base	acute	acute
<input type="checkbox"/> Leaf blade: angle at apex	small to medium	very small to small
<input type="checkbox"/> Leaf blade: colour	medium green	medium green
<input type="checkbox"/> Leaf blade: red mid vein on the lower side	absent	absent
<input type="checkbox"/> Petiole: length	medium	medium
<input type="checkbox"/> *Petiole: nectaries	present	present
<input checked="" type="checkbox"/> *Petiole: shape of nectaries	round	reniform
<input type="checkbox"/> *Fruit: size	large	large
<input type="checkbox"/> *Fruit: shape (in ventral view)	circular	circular
<input type="checkbox"/> Fruit: mucron tip at pistil end	absent	absent
<input type="checkbox"/> Fruit: shape of pistil end (excluding mucron tip)	weakly depressed	weakly depressed
<input type="checkbox"/> Fruit: symmetry (viewed from pistil end)	symmetric	symmetric
<input type="checkbox"/> Fruit: prominence of suture	weak to medium	weak to medium
<input type="checkbox"/> Fruit: depth of stalk cavity	medium	medium
<input type="checkbox"/> Fruit: width of stalk cavity	medium	medium
<input checked="" type="checkbox"/> *Fruit: ground colour of skin	pink white	cream white
<input type="checkbox"/> *Fruit: relative area of over colour of skin	large to very large	medium to large
<input checked="" type="checkbox"/> Fruit: hue of over colour of skin	dark red	medium red
<input type="checkbox"/> Fruit: pattern of over colour of skin	solid flush	solid flush
<input type="checkbox"/> *Fruit: pubescence of skin	present	present
<input type="checkbox"/> *Fruit: density of pubescence of skin	sparse to medium	sparse to medium
<input type="checkbox"/> Fruit: glossiness (varieties with fruit pubescence: absent only)	absent or weak	absent or weak
<input type="checkbox"/> Fruit: conspicuousness of lenticels (varieties with fruit pubescence: absent only)	weak	weak
<input type="checkbox"/> Fruit: thickness of skin	medium	medium
<input type="checkbox"/> Fruit: adherence of skin to flesh	strong	strong
<input type="checkbox"/> *Fruit: firmness of flesh	firm	firm

<input checked="" type="checkbox"/> *Fruit: carotenoid colouration of flesh	cream white	white
<input type="checkbox"/> *Fruit: anthocyanin colouration of flesh next to skin	absent or very weak	
<input type="checkbox"/> *Fruit: anthocyanin colouration of flesh in central part of flesh	absent or very weak	absent or very weak
<input type="checkbox"/> *Fruit: anthocyanin colouration of flesh around stone	medium	medium
<input type="checkbox"/> Fruit: flesh fiber	moderate	moderate
<input type="checkbox"/> Fruit: sweetness	high	high
<input type="checkbox"/> *Fruit: acidity	low	low
<input type="checkbox"/> *Stone: size compared to fruit	medium	medium
<input type="checkbox"/> *Stone: shape (in lateral view)	elliptic	elliptic
<input type="checkbox"/> Stone: anthocyanin colouration	medium	medium
<input type="checkbox"/> Stone: intensity of brown colour	medium	medium
<input type="checkbox"/> Stone: relief of surface	equally pits and grooves	equally pits and grooves
<input type="checkbox"/> Stone: tendency to split	very low to low	very low to low
<input type="checkbox"/> Stone: adherence to flesh	absent	absent
<input type="checkbox"/> Stone: degree of adherence to flesh	very weak	very weak
<input checked="" type="checkbox"/> Time of : beginning of leaf bud burst	medium to late	medium
<input checked="" type="checkbox"/> *Time of: beginning of flowering	medium to late	medium
<input type="checkbox"/> *Time of: maturity for consumption	late	late

Prior Applications and Sales:

Country	Year	Status	Name Applied
USA	2014	granted	'Pearl Princess XIII'

First sold in USA as 'Pearl Princess XIII' on 12th Dec 2015

Description: Peter Buchanan, Buchanan's Nursery, QLD

Details of Application

Application Number	2020/152
Variety Name	'GRAVITY'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	17 Sep 2020
Applicant	IPM Potato Group Ltd, Dublin, Ireland
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Setanta' was pollinated by the breeding line T2277/50 in the Teagasc Crop Research Centre Potato Breeding Program at Carlow, Ireland in 2004. Subsequently selection trials occurred at multiple sites in Europe and North Africa with the main selection criteria being marketable yield, maturity time, tuber appearance, disease resistances, cooking quality and storability. Breeding line T5049/9 was selected and released as 'GRAVITY' in 2016. Breeder: Teagasc Crop Research Centre, Carlow, Ireland.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part Context	State of Expression in Group of Varieties
Lightsprout shape	broad cylindrical
Lightsprout blue colouration of base	absent
Flower colour	white
Tuber shape	oval
Tuber skin colour	yellow
Tuber flesh colour	medium yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Regina'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Perline' tuber shape	oval	short oval	
'Sante' plant time of maturity	late	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'GRAVITY'	'Regina'
<input checked="" type="checkbox"/> Lightsprout: size	small	medium
<input type="checkbox"/> *Lightsprout: shape	broad cylindrical	broad cylindrical
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	weak to medium	medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	very weak to weak	medium
<input type="checkbox"/> Lightsprout: size of tip in relation to base	medium	medium
<input checked="" type="checkbox"/> Lightsprout: habit of tip	closed	intermediate to open
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	weak	medium
<input type="checkbox"/> Lightsprout: pubescence of tip	very weak to weak	weak
<input type="checkbox"/> *Lightsprout: number of root tips	many	medium to many
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	short to medium
<input checked="" type="checkbox"/> Plant: foliage structure	intermediate type	leaf type
<input type="checkbox"/> *Plant: growth habit	semi-upright	semi-upright
<input type="checkbox"/> *Stem: anthocyanin colouration	absent or very weak	very weak to weak
<input type="checkbox"/> Leaf: outline size	medium to large	medium to large

<input type="checkbox"/> Leaf: openness	intermediate to open	open
<input type="checkbox"/> Leaf: presence of secondary leaflets	medium to strong	medium
<input type="checkbox"/> Leaf: green colour	medium	light to medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	medium	medium to large
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	medium	medium
<input checked="" type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	high	absent or very low
<input checked="" type="checkbox"/> Leaflet: waviness of margin	weak	medium
<input type="checkbox"/> Leaflet: depth of veins	medium	medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	medium to glossy	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	medium	weak to medium
<input type="checkbox"/> Plant: height	medium to tall	medium to tall
<input checked="" type="checkbox"/> *Plant: frequency of flowers	low	medium
<input type="checkbox"/> Inflorescence: size	small	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	very weak to weak	medium
<input type="checkbox"/> Flower corolla: size	medium to large	large
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	absent or very weak
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	absent or very small
<input type="checkbox"/> *Plant: time of maturity	medium to late	medium to late
<input type="checkbox"/> *Tuber: shape	oval	oval
<input type="checkbox"/> Tuber: depth of eyes	very shallow	shallow
<input type="checkbox"/> *Tuber: colour of skin	yellow	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	medium yellow	medium yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	weak	weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'GRAVITY'	'Regina'
<input type="checkbox"/> Stem: thickness	medium	medium
<input type="checkbox"/> Tuber: skin smoothness	medium	rough
<input type="checkbox"/> Stem: wings	small	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2015	Granted	'GRAVITY'
Ireland	2016	Granted	'GRAVITY'

Prior sales: first sold in United Kingdom in February 2017.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2020/176
Variety Name	'SENSATION-IPM'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	29 Oct 2020
Applicant	IPM Potato Group Ltd, Dublin, Ireland
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The breeding line TE93-26-02 was pollinated by breeding line TE98-05-31 in the Handels en Kweekbedrijf Temmerman bv. Potato Breeding Program at Medemblik, The Netherlands in 2006. Subsequently selection trials occurred with the main selection criteria being marketable yield, maturity time, tuber appearance, pest and disease resistances. Breeding line TE06-02-01 was selected and released as 'SENSATION' in 2018. Plant Breeders Rights is being sought in Australia under the name 'SENSATION-IPM'. Breeder: Handels en Kweekbedrijf Temmerman b.v., Medemblik, The Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	spherical
Flower	colour	white
Tuber	shape	short-oval to oval
Tuber	skin colour	yellow
Tuber	flesh colour	medium yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Georgina'	
'Primabelle'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Primabelle'	Lightsprout shape	spherical	conical	
'Primabelle'	Leaf presence of secondary leaflets	weak to medium	strong	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'SENSATION-IPM'	'Georgina'
<input type="checkbox"/> Lightsprout: size	medium	medium to large
<input type="checkbox"/> *Lightsprout: shape	spherical	spherical
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	weak to medium	medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input type="checkbox"/> *Lightsprout: pubescence of base	weak to medium	weak to medium
<input type="checkbox"/> Lightsprout: size of tip in relation to base	small to medium	medium to large
<input checked="" type="checkbox"/> Lightsprout: habit of tip	closed to intermediate	open
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	weak	weak
<input type="checkbox"/> Lightsprout: pubescence of tip	weak to medium	medium
<input type="checkbox"/> *Lightsprout: number of root tips	many	many
<input type="checkbox"/> Lightsprout: length of lateral shoots	short to medium	medium
<input checked="" type="checkbox"/> Plant: foliage structure	leaf type	intermediate type
<input type="checkbox"/> *Plant: growth habit	semi-upright	semi-upright to spreading
<input type="checkbox"/> *Stem: anthocyanin colouration	very weak to weak	absent or very weak
<input checked="" type="checkbox"/> Leaf: outline size	large	medium

<input checked="" type="checkbox"/> Leaf: openness	intermediate	open
<input type="checkbox"/> Leaf: presence of secondary leaflets	weak to medium	medium to strong
<input checked="" type="checkbox"/> Leaf: green colour	light	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Second pair of lateral leaflets: size	large	small to medium
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	medium to broad	medium
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	absent or very low
<input type="checkbox"/> Leaflet: waviness of margin	weak	weak
<input type="checkbox"/> Leaflet: depth of veins	medium	medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	medium to glossy	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	weak	absent or very weak
<input checked="" type="checkbox"/> Plant: height	medium	tall
<input checked="" type="checkbox"/> *Plant: frequency of flowers	low	medium to high
<input type="checkbox"/> Inflorescence: size	small	small
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	weak	absent or very weak
<input type="checkbox"/> Flower corolla: size	small to medium	medium to large
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	absent or very weak
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	absent or very small
<input checked="" type="checkbox"/> *Plant: time of maturity	very early	medium to late
<input checked="" type="checkbox"/> *Tuber: shape	oval	short-oval
<input type="checkbox"/> Tuber: depth of eyes	shallow	medium
<input type="checkbox"/> *Tuber: colour of skin	yellow	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	medium yellow	medium yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	absent or very weak	absent or very weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'SENSATION-IPM'	'Georgina'
<input type="checkbox"/> Stem: thickness	thin	medium
<input type="checkbox"/> Tuber: skin smoothness	smooth	medium
<input type="checkbox"/> Stem: wings	small	small

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2019	Granted	'SENSATION'
United Kingdom	2018	Granted	'SENSATION'
The Netherlands	2015	Granted	'SENSATION'

Prior sales: first sold in The Netherlands in February 2019.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2020/085
Variety Name	'KING RUSSET'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	11 Jun 2020
Applicant	Aardappelkweek - en Selectiebedrijf IJSSELMEERPOLDERS BV, Emmeloord, The Netherlands.
Agent	McCain Foods (Aust) Pty Ltd. Wendouree, VIC
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Royal' was pollinated by the variety 'Mont Blanc' in the Aardappelkweek - en Selectiebedrijf Ijsselmeerpolders BV Potato Breeding Program at Tollebeek, The Netherlands in 2007. Subsequently selection trials occurred at Emmeloord, The Netherlands with the main selection criteria being marketable yield, maturity time, internal and external tuber appearance, processing quality, pest and disease resistances. Breeding line YP08-812 was selected in 2010 and released as 'KING RUSSET' in 2020. Breeder: Aardappelkweek - en Selectiebedrijf IJSSELMEERPOLDERS BV, Emmeloord, The Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Tuber	shape	long
Tuber	skin colour	yellow
Tuber	smoothness	medium to rough

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Innovator'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Russet burbank'	tuber depth of eyes	shallow	deep	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'KING RUSSET'	'Innovator'
<input type="checkbox"/> Lightsprout: size	large	medium to large
<input type="checkbox"/> *Lightsprout: shape	ovoid	broad cylindrical
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	medium to strong	weak to medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input type="checkbox"/> *Lightsprout: pubescence of base	medium	medium
<input type="checkbox"/> Lightsprout: size of tip in relation to base	small to medium	medium
<input type="checkbox"/> Lightsprout: habit of tip	intermediate	closed to intermediate
<input checked="" type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium	weak
<input type="checkbox"/> Lightsprout: pubescence of tip	medium	medium to strong
<input type="checkbox"/> *Lightsprout: number of root tips	medium to many	few
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	short
<input type="checkbox"/> Plant: foliage structure	intermediate type	intermediate type
<input type="checkbox"/> *Plant: growth habit	upright to semi-upright	upright
<input type="checkbox"/> *Stem: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Leaf: outline size	medium to large	medium
<input type="checkbox"/> Leaf: openness	open	open
<input type="checkbox"/> Leaf: presence of secondary leaflets	medium to strong	medium
<input type="checkbox"/> Leaf: green colour	medium	light to medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak

<input type="checkbox"/> Second pair of lateral leaflets: size	medium	medium to large
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	medium	narrow to medium
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	
<input checked="" type="checkbox"/> Leaflet: waviness of margin	weak	medium
<input type="checkbox"/> Leaflet: depth of veins	medium to deep	shallow to medium
<input checked="" type="checkbox"/> Leaflet: glossiness of the upperside	glossy	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Plant: height	medium	medium to tall
<input type="checkbox"/> *Plant: frequency of flowers	medium	medium to high
<input checked="" type="checkbox"/> Inflorescence: size	small	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	absent or very weak	absent or very weak
<input type="checkbox"/> Flower corolla: size	medium	medium
<input checked="" type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	medium	absent or very weak
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input checked="" type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	medium	absent or very small
<input type="checkbox"/> *Plant: time of maturity	medium	early to medium
<input type="checkbox"/> *Tuber: shape	long	long
<input type="checkbox"/> Tuber: depth of eyes	shallow to medium	shallow to medium
<input type="checkbox"/> *Tuber: colour of skin	yellow	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input checked="" type="checkbox"/> *Tuber: colour of flesh	white	light yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	absent or very weak	absent or very weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'KING RUSSET'	'Innovator'
<input type="checkbox"/> Stem: thickness	thick	medium
<input type="checkbox"/> Tuber: skin smoothness	rough	rough
<input checked="" type="checkbox"/> Stem: wings	large	absent

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2018	Granted	'KING RUSSET'
European Union	2016	Granted	'KING RUSSET'

Prior sales: first sold in The Netherlands in April 2020.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2020/207
Variety Name	‘CARIBOU RUSSET’
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	11 Jan 2021
Applicant	University of Maine System Board of Trustees, Maine, USA
Agent	McCain Foods (Aust) Pty Ltd, Wendouree, VIC
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety ‘Silverton Russet’ was pollinated by the variety ‘Reeves Kingpin’ in 2001 at the University of Maine Potato Breeding Program at Aroostock Farm, Presque Isle, Maine, USA. Subsequently selection trials occurred at multiple sites with the main selection criteria being high yield, pest and disease resistances, tuber shape and processing quality. Breeding line AF 3362-1 was selected and released as ‘CARIBOU RUSSET’ in 2017. Breeder: University of Maine System Board of Trustees, Maine, USA

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Flower	colour	white
Tuber	shape	long to long oval
Tuber	skin coloured	brown russet
Tuber	flesh colour	white

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Russet Burbank'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Ranger Russet'	Flower colour	white	pink	
'Ranger Russet'	Lightsprout pubescence of base	weak	strong	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'CARIBOU RUSSET'	'Russet Burbank'
<input checked="" type="checkbox"/> Lightsprout: size	medium	small
<input type="checkbox"/> *Lightsprout: shape	ovoid	ovoid
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	strong	weak
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	weak	medium
<input checked="" type="checkbox"/> Lightsprout: size of tip in relation to base	large	small to medium
<input checked="" type="checkbox"/> Lightsprout: habit of tip	intermediate to open	closed
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	absent or very weak	weak
<input type="checkbox"/> Lightsprout: pubescence of tip	medium	weak
<input type="checkbox"/> *Lightsprout: number of root tips	few	few to medium
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	short
<input checked="" type="checkbox"/> Plant: foliage structure	intermediate type	leaf type
<input checked="" type="checkbox"/> *Plant: growth habit	upright	semi- upright to spreading
<input type="checkbox"/> *Stem: anthocyanin colouration	weak	absent or very weak
<input type="checkbox"/> Leaf: outline size	medium	medium to large
<input checked="" type="checkbox"/> Leaf: openess	intermediate	open
<input type="checkbox"/> Leaf: presence of secondary leaflets	medium to strong	medium
<input type="checkbox"/> Leaf: green colour	medium to	medium

<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	dark	absent or very weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	medium	medium	medium
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow	narrow	narrow
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	low	low
<input type="checkbox"/> Leaflet: waviness of margin	very weak to weak	absent or very weak	absent or very weak
<input type="checkbox"/> Leaflet: depth of veins	medium	medium to deep	medium to deep
<input type="checkbox"/> Leaflet: glossiness of the upperside	dull to medium	medium	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	strong	absent or very weak	absent or very weak
<input type="checkbox"/> Plant: height	tall	tall	tall
<input checked="" type="checkbox"/> *Plant: frequency of flowers	high to very high	absent or very low	absent or very low
<input type="checkbox"/> Inflorescence: size	small to medium	small	small
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	very weak to weak	absent or very weak	absent or very weak
<input type="checkbox"/> Flower corolla: size	large	medium	medium
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	absent or very small	absent or very small
<input type="checkbox"/> *Plant: time of maturity	late	medium to late	medium to late
<input type="checkbox"/> *Tuber: shape	long	long	long
<input checked="" type="checkbox"/> Tuber: depth of eyes	shallow	medium	medium
<input type="checkbox"/> *Tuber: colour of skin	reddish brown	reddish brown	reddish brown
<input type="checkbox"/> *Tuber: colour of flesh	white	white	white

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'CARIBOU RUSSET'	'Russet Burbank'
<input type="checkbox"/> Stem: thickness	medium	medium
<input type="checkbox"/> Tuber: skin smoothness	rough	rough
<input checked="" type="checkbox"/> Stem: wings	large	small
<input checked="" type="checkbox"/> Flower: petals	6	5

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2015	Granted	'CARIBOU RUSSET'

United States 2015 Granted ‘CARIBOU RUSSET’

Prior sales: first sold in United States in March 2017.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application number	2021/052
Variety Name	'Crop80'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	27 Apr 2021
Applicant	The New Zealand Institute for Plant and Food Research Limited, Auckland, New Zealand
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

The variety 'Summer Delight' was pollinated by the variety 'Crop20' in 2004/2005 at the New Zealand Institute for Plant and Food Research Limited Potato Breeding Program at Pukekohe, North Island, New Zealand. Subsequently selection trials occurred including a South Island site at Lincoln with the main selection criteria being marketable yield, maturity time, tuber appearance, disease resistances and cooking quality. After seven cycles of selection a breeding line was selected and released as 'Crop80' in 2017. Breeder: The New Zealand Institute for Plant and Food Research Limited, Auckland, New Zealand.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	broad cylindrical
Flower	colour	white
Tuber	shape	short oval to oval
Tuber	skin colour	yellow
Tuber	flesh colour	light yellow
Flower	frequency of flowers	very low to low

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Montreal'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Perline'	tuber flesh colour	light yellow	medium yellow	
'Regina'	tuber flesh colour	light yellow	medium yellow	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Crop80'	'Montreal'
<input checked="" type="checkbox"/> Lightsprout: size	medium	large
<input type="checkbox"/> *Lightsprout: shape	broad cylindrical	broad cylindrical
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	medium	strong
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	medium	medium
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	strong	medium
<input type="checkbox"/> Lightsprout: size of tip in relation to base	small to medium	small to medium
<input type="checkbox"/> Lightsprout: habit of tip	intermediate	intermediate
<input checked="" type="checkbox"/> Lightsprout: anthocyanin colouration of tip	weak	medium
<input type="checkbox"/> Lightsprout: pubescence of tip	medium	medium to strong
<input type="checkbox"/> *Lightsprout: number of root tips	many to very many	many

<input type="checkbox"/> Lightsprout: length of lateral shoots	short to medium	medium
<input checked="" type="checkbox"/> Plant: foliage structure	stem type	leaf type
<input checked="" type="checkbox"/> *Plant: growth habit	upright	semi-upright to spreading
<input type="checkbox"/> *Stem: anthocyanin colouration	weak	absent or very weak
<input type="checkbox"/> Leaf: outline size	medium to large	large
<input type="checkbox"/> Leaf: openness	intermediate to open	intermediate to open
<input type="checkbox"/> Leaf: presence of secondary leaflets	medium to strong	medium
<input checked="" type="checkbox"/> Leaf: green colour	dark	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	very weak to weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	small to medium	medium
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	broad	medium to broad
<input checked="" type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	low	medium
<input checked="" type="checkbox"/> Leaflet: waviness of margin	weak	medium
<input checked="" type="checkbox"/> Leaflet: depth of veins	deep	medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	medium to glossy	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	weak	medium
<input checked="" type="checkbox"/> Plant: height	tall	medium
<input checked="" type="checkbox"/> *Plant: frequency of flowers	medium	absent, did not flower
<input type="checkbox"/> Inflorescence: size	very small to small	
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	absent or very weak	
<input type="checkbox"/> Flower corolla: size	small to medium	
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	
<input type="checkbox"/> *Plant: time of maturity	medium to late	early to medium
<input type="checkbox"/> *Tuber: shape	oval	oval
<input type="checkbox"/> Tuber: depth of eyes	very shallow to shallow	shallow to medium
<input type="checkbox"/> *Tuber: colour of skin	yellow	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	light yellow	light yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	weak to medium	weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Crop80'	'Montreal'
<input type="checkbox"/> Stem: thickness	medium	thin
<input type="checkbox"/> Tuber: skin smoothness	medium	smooth
<input checked="" type="checkbox"/> Stem: wings	large	small
<input checked="" type="checkbox"/> Flower: abortion	aborting	did not flower

Prior Applications and Sales:

Country	Year	Status	Name Applied
New Zealand	2018	Granted	'Crop80'

Prior sales: first sold in New Zealand in August 2017.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2021/118
Variety Name	'EFERA'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	06 Jul 2021
Applicant	Plantera B.V., Oosterringweg 7, Marknesse, 8316 RW, The Netherlands.
Agent	Dowling AgriTech, Mt Gambier East, SA
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: Variety 'Vento' was pollinated by the variety 'Victoria' in the Kweekbedrijf Smeenge-Research Potato Breeding Program at Emmeloord, The Netherlands in 2005. Subsequently selection trials occurred at multiple sites with the main selection criteria being marketable yield, maturity time, internal and external tuber quality, pest and disease resistances. Breeding line SM 06 61 was selected and released as 'EFERA' in 2018. Breeder: P.H. Smeenge, Emmeloord, 8302 ZZ, The Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	spherical
Flower	colour	white
Tuber	skin colour	yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Georgina'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Fontane'	tuber skin smoothness	smooth	rough	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context

	'EFERA'	'Georgina'
<input type="checkbox"/> Lightsprout: size	medium	medium to large
<input type="checkbox"/> *Lightsprout: shape	spherical	spherical
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	medium to strong	medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input type="checkbox"/> *Lightsprout: pubescence of base	medium	weak to medium
<input type="checkbox"/> Lightsprout: size of tip in relation to base	medium	medium to large
<input type="checkbox"/> Lightsprout: habit of tip	intermediate to open	open
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	weak to medium	weak
<input type="checkbox"/> Lightsprout: pubescence of tip	medium to strong	medium
<input type="checkbox"/> *Lightsprout: number of root tips	medium	many
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	medium
<input type="checkbox"/> Plant: foliage structure	intermediate type	intermediate type
<input type="checkbox"/> *Plant: growth habit	upright to semi-upright	semi-upright to spreading
<input type="checkbox"/> *Stem: anthocyanin colouration	medium	absent or very weak
<input checked="" type="checkbox"/> Leaf: outline size	large	medium
<input checked="" type="checkbox"/> Leaf: openness	closed to intermediate	open
<input type="checkbox"/> Leaf: presence of secondary leaflets	strong	medium to strong
<input type="checkbox"/> Leaf: green colour	light to medium	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	very weak to weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	medium	small to

<input type="checkbox"/>	Second pair of lateral leaflets: width in relation to length	medium	medium
<input checked="" type="checkbox"/>	Terminal and lateral leaflets: frequency of coalescence	medium	absent or very low
<input type="checkbox"/>	Leaflet: waviness of margin	weak to medium	weak
<input type="checkbox"/>	Leaflet: depth of veins	medium to deep	medium
<input type="checkbox"/>	Leaflet: glossiness of the upper side	medium	medium
<input type="checkbox"/>	Flower bud: anthocyanin colouration	weak to medium	absent or very weak
<input type="checkbox"/>	Plant: height	medium to tall	tall
<input type="checkbox"/>	*Plant: frequency of flowers	medium	medium to high
<input type="checkbox"/>	Inflorescence: size	small to medium	small
<input type="checkbox"/>	Inflorescence: anthocyanin colouration on peduncle	weak	absent or very weak
<input type="checkbox"/>	Flower corolla: size	medium	medium to large
<input type="checkbox"/>	*Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	absent or very weak
<input type="checkbox"/>	*Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/>	*Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	absent or very small
<input type="checkbox"/>	*Plant: time of maturity	medium	medium to late
<input checked="" type="checkbox"/>	*Tuber: shape	oval	short-oval
<input type="checkbox"/>	Tuber: depth of eyes	shallow	medium
<input type="checkbox"/>	*Tuber: colour of skin	yellow	yellow
<input type="checkbox"/>	*Tuber: colour of base of eye	yellow	yellow
<input checked="" type="checkbox"/>	*Tuber: colour of flesh	light yellow	medium yellow
<input type="checkbox"/>	Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	absent or very weak	absent or very weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'EFERA'	'Georgina'
<input checked="" type="checkbox"/> Stem: thickness	thin	medium
<input type="checkbox"/> Tuber: skin smoothness	smooth	medium
<input checked="" type="checkbox"/> Stem: wings	medium	small

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2015	Granted	'EFERA'
EU (CPVO)	2017	Granted	'EFERA'

UK (transfer from EU 2018 to UK) Granted ‘EFERA’
First sold on 24 December 2018 in The Netherlands.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2021/117
Variety Name	'LILY ROSE'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	06 Jul 2021
Applicant	Plantera B.V., Marknesse, The Netherlands
Agent	Dowling AgriTech, Mt Gambier East, SA
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Cecile' was pollinated by breeding line IVP 4X-038-1 in 2005 at the Wageningen University Potato Breeding Program at Wageningen, The Netherlands. Subsequently selection trials occurred with the main selection criteria being marketable yield, internal and external tuber quality, pest and disease resistances. Breeding line IVP 06-27 was selected and released as 'LILY ROSE' in 2018. Breeder: Wageningen University, Wageningen, The Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Flower	colour	pink
Flower	frequency of flowers	medium
Tuber	shape	long oval to long
Tuber	skin colour	red
Tuber	flesh colour	red

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Crimson Pearl'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
---------	-------------------------------	--	---	----------

'Ruby Magic'	planttime of maturity	medium	late	
'Adirondack Red'	plant frequency of flowers	medium	few	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'LILY ROSE'	'Crimson Pearl'
<input type="checkbox"/> Lightsprout: size	medium	medium
<input checked="" type="checkbox"/> *Lightsprout: shape	broad cylindrical	spherical
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	strong	very strong
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	strong	medium
<input checked="" type="checkbox"/> Lightsprout: size of tip in relation to base	medium	small
<input checked="" type="checkbox"/> Lightsprout: habit of tip	intermediate to open	closed
<input checked="" type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium	strong
<input checked="" type="checkbox"/> Lightsprout: pubescence of tip	strong	medium
<input type="checkbox"/> *Lightsprout: number of root tips	medium to many	medium
<input type="checkbox"/> Lightsprout: length of lateral shoots	short to medium	short
<input type="checkbox"/> Plant: foliage structure	intermediate type	intermediate type
<input checked="" type="checkbox"/> *Plant: growth habit	upright	semi-upright
<input type="checkbox"/> *Stem: anthocyanin colouration	strong	strong
<input type="checkbox"/> Leaf: outline size	medium to large	medium
<input type="checkbox"/> Leaf: openness	intermediate	intermediate to open
<input checked="" type="checkbox"/> Leaf: presence of secondary leaflets	strong	medium
<input type="checkbox"/> Leaf: green colour	dark	dark
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	strong	strong
<input type="checkbox"/> Second pair of lateral leaflets: size	medium	medium
<input checked="" type="checkbox"/> Second pair of lateral leaflets: width in relation to length	broad	medium
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	medium	absent or very low
<input type="checkbox"/> Leaflet: waviness of margin	weak	medium
<input type="checkbox"/> Leaflet: depth of veins	medium	medium to

<input type="checkbox"/> Leaflet: glossiness of the upperside	dull to medium	deep dull
<input type="checkbox"/> Flower bud: anthocyanin colouration	medium	medium to strong
<input checked="" type="checkbox"/> Plant: height	tall	medium
<input type="checkbox"/> *Plant: frequency of flowers	medium	medium to high
<input type="checkbox"/> Inflorescence: size	medium	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	strong	medium to strong
<input type="checkbox"/> Flower corolla: size	medium to large	large
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	medium	medium to strong
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	small to medium	medium
<input type="checkbox"/> *Plant: time of maturity	early to medium	early
<input type="checkbox"/> *Tuber: shape	long-oval	long-oval
<input checked="" type="checkbox"/> Tuber: depth of eyes	medium	very deep
<input type="checkbox"/> *Tuber: colour of skin	red	red
<input type="checkbox"/> *Tuber: colour of base of eye	red	red
<input type="checkbox"/> *Tuber: colour of flesh	red	red

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'LILY ROSE'	'Crimson Pearl'
<input type="checkbox"/> Stem: thickness	thick	medium
<input type="checkbox"/> Tuber: skin smoothness	smooth	medium
<input checked="" type="checkbox"/> Tuber: intensity of skin colour	medium	dark
<input type="checkbox"/> Stem: wings	medium	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
The Netherlands	2015	Granted	'LILY ROSE'
EU	2017	Granted	'LILY ROSE'
United Kingdom	2018	Granted	'LILY ROSE'

Prior sales: first sold in The Netherlands in December 2018.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2015/151
Variety Name	'Aurea'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Synonym	Z-04-W15
Accepted Date	24 Jun 2015
Applicant	SIPRE, Achicourt, France
Agent	Zerella Holdings Pty Ltd, Virginia, SA 5120
Qualified Person	Stewart McKay

Details of Comparative Trial

Location	CTC for potato at Agronico P/L, Leith, Tasmania
Descriptor	TG/23/6
Period	2 nd Feb 2019 – 30 th May 2019
Conditions	Potato plants were grown from hardened off in-vitro plantlets and placed into a recirculating hydroponic propagation system in a controlled environment. Standard nutrient fertilization and disease/inssect preventative controls were used.
Trial Design	RCBD with two replicates consisting of 30 plants per replicate were used
Measurements	Trial data was collected on 15 th May 2019 using the standard UPOV descriptors. Lightsprout photos were taken on 15 th December 2020 and tuber assessments done on 15 th May 2019.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: A sexual crossing was made initially in greenhouse with chosen parents, and then the seeds coming from the crossing were sown in greenhouse. The harvest was planted the year after in field (1st year in field). And then phenotypic, agronomic and quality evaluations were conducted in order to screen the material. Trials for registration in France were conducted in 2006 and 2007. Official registration was done in 2008. Breeder: Dominique Fagot, Station de Recherche du Comité Nord, France.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Tuber	colour of skin	yellow
Lightsprout	pubescence of base	very weak to weak
Tuber	shape	short-oval or oval
Flower corolla	intensity of anthocyanin colouration on inner side	absent or very weak
Plant	growth habit	upright

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Kennebec'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Aurea'	'Kennebec'
<input type="checkbox"/> Lightsprout: size	medium	medium to large
<input checked="" type="checkbox"/> *Lightsprout: shape	spherical	ovoid
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	strong	absent or very weak
<input checked="" type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	high	absent or low
<input type="checkbox"/> *Lightsprout: pubescence of base	very weak to weak	very weak to weak
<input type="checkbox"/> Lightsprout: size of tip in relation to base	very small to small	small
<input type="checkbox"/> Lightsprout: habit of tip	closed	closed
<input checked="" type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium to strong	absent or very weak
<input type="checkbox"/> Lightsprout: pubescence of tip	very weak to weak	very weak to weak
<input checked="" type="checkbox"/> *Lightsprout: number of root tips	few	many
<input type="checkbox"/> Lightsprout: length of lateral shoots	very short to short	short
<input type="checkbox"/> Plant: foliage structure	intermediate type	stem type
<input type="checkbox"/> *Plant: growth habit	upright	upright
<input type="checkbox"/> *Stem: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Leaf: outline size	medium to large	large
<input type="checkbox"/> Leaf: openness	closed to intermediate	intermediate to open
<input type="checkbox"/> Leaf: presence of secondary leaflets	medium	weak
<input type="checkbox"/> Leaf: green colour	light to medium	medium to dark
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	small to medium	medium
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow to medium	very narrow
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	low
<input type="checkbox"/> Leaflet: waviness of margin	weak to medium	medium
<input type="checkbox"/> Leaflet: depth of veins	shallow to medium	medium to deep
<input type="checkbox"/> Leaflet: glossiness of the upperside	dull to medium	medium to glossy
<input checked="" type="checkbox"/> Leaflet: pubescence of blade at apical rosette	absent	present
<input type="checkbox"/> Plant: height	medium to tall	medium
<input type="checkbox"/> *Plant: frequency of flowers	low to medium	medium
<input type="checkbox"/> Inflorescence: size	small to medium	small to medium

<input type="checkbox"/>	Inflorescence: anthocyanin colouration on peduncle	absent or very weak	absent or very weak
<input type="checkbox"/>	Flower corolla: size	medium	medium
<input type="checkbox"/>	*Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	absent or very weak
<input type="checkbox"/>	*Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/>	*Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	absent or very small
<input checked="" type="checkbox"/>	*Plant: time of maturity	early	medium
<input type="checkbox"/>	*Tuber: shape	short-oval	oval
<input type="checkbox"/>	Tuber: depth of eyes	deep	deep
<input type="checkbox"/>	*Tuber: colour of skin	yellow	yellow
<input type="checkbox"/>	*Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/>	*Tuber: colour of flesh	medium yellow	cream
<input type="checkbox"/>	Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	absent or very weak	absent or very weak

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2014	granted	Aurea
Turkey	2009	granted	Aurea
Brazil	2013	granted	Aurea
EU	2008	granted	Aurea

First sold in France on 24th June 2011

Description: Stewart McKay, Tasmania

Details of Application

Application Number	2020/054
Variety Name	'PAPAGENO'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	04 May 2020
Applicant	Solana GmbH & Co KG, Hamburg, Germany.
Agent	Fairbanks Selected Seed Co Pty Ltd, Epping, VIC
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Omega' was pollinated by breeding line 03-901-1 in the Solana GmbH & Co KG Potato Breeding Program at Windeby, Germany in 2009. Subsequently selection trials occurred at multiple sites with the main selection criteria being marketable yield, maturity time, internal and external tuber quality, pest and disease resistances. Breeding line 10-521-2 was selected and released as 'PAPAGENO' in 2018. Breeder: Solana GmbH & Co KG, Germany.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	spherical
Flower	colour	pink
Tuber	shape	round to short oval
Tuber	skin colour	yellow
Tuber	flesh colour	light yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Laperla'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Figaro'	flower corolla size	medium to large	small	
'Figaro'	tuber depth of eyes	shallow to medium	medium	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'PAPAGENO'	'Laperla'
<input type="checkbox"/> Lightsprout: size	small to medium	medium to large
<input type="checkbox"/> *Lightsprout: shape	spherical	spherical
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	medium to strong	medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	strong	absent or very weak
<input type="checkbox"/> Lightsprout: size of tip in relation to base	medium to large	medium
<input checked="" type="checkbox"/> Lightsprout: habit of tip	intermediate	open
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium	medium
<input type="checkbox"/> Lightsprout: pubescence of tip	medium to strong	medium
<input type="checkbox"/> *Lightsprout: number of root tips	medium to many	medium
<input type="checkbox"/> Lightsprout: length of lateral shoots	very short to short	short
<input checked="" type="checkbox"/> Plant: foliage structure	stem type	leaf type
<input checked="" type="checkbox"/> *Plant: growth habit	semi-upright	spreading
<input checked="" type="checkbox"/> *Stem: anthocyanin colouration	weak to medium	absent or very weak
<input type="checkbox"/> Leaf: outline size	medium to large	medium to large
<input type="checkbox"/> Leaf: openness	intermediate to	closed to

<input type="checkbox"/> Leaf: presence of secondary leaflets	open	intermediate
<input type="checkbox"/> Leaf: green colour	strong	strong
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	medium to dark	medium
<input type="checkbox"/> Second pair of lateral leaflets: size	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Second pair of lateral leaflets: width in relation to length	medium	medium
<input checked="" type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	narrow	medium
<input checked="" type="checkbox"/> Leaflet: waviness of margin	absent or very low	high
<input checked="" type="checkbox"/> Leaflet: depth of veins	strong	weak
<input type="checkbox"/> Leaflet: glossiness of the upperside	deep	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	medium	medium
<input checked="" type="checkbox"/> Plant: height	medium to strong	strong
<input type="checkbox"/> *Plant: frequency of flowers	tall to very tall	medium
<input type="checkbox"/> Inflorescence: size	medium to high	medium to high
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	large	medium to large
<input type="checkbox"/> Flower corolla: size	medium	medium to strong
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	medium to large	medium to large
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	weak to medium	medium to strong
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Plant: time of maturity	large to very large	
<input type="checkbox"/> *Tuber: shape	early to medium	very early to early
<input type="checkbox"/> Tuber: depth of eyes	round	round
<input type="checkbox"/> *Tuber: colour of skin	shallow to medium	shallow to medium
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	yellow	yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	light yellow	light yellow
	medium	absent or very weak

Characteristics Additional to the Descriptor/TG**Organ/Plant Part: Context**

	'PAPAGENO'	'Laperla'
<input type="checkbox"/> Stem: thickness	thick	medium
<input type="checkbox"/> Tuber: skin smoothness	smooth	smooth
<input checked="" type="checkbox"/> Stem: wings	large	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2018	Granted	'PAPAGENO'
Germany	2018	Granted	'PAPAGENO'
United Kingdom	2019	Granted	'PAPAGENO'

Prior sales: first sold in Germany in November 2017.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2020/053
Variety Name	'EDISON'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	04 May 2020
Applicant	Solana GmbH & Co KG, Hamburg, Germany.
Agent	Fairbanks Selected Seed Co Pty Ltd, Epping, VIC
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Diana' was pollinated by breeding line 03-363-1 in the Solana GmbH & Co KG Potato Breeding Program at Windeby, Germany in 2008. Subsequently selection trials occurred at multiple sites with the main selection criteria being marketable yield, maturity time, internal and external tuber quality, pest and disease resistances. Breeding line 08-323-1 was selected and released as 'EDISON' in 2017. Breeder: Solana GmbH & Co KG, Germany.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	ovoid
Tuber	shape	long oval
Tuber	skin colour	yellow
Flower	colour	red violet
Tuber	flesh colour	light yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Ottawa'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Ludmilla'	Plant time of maturity	medium	early	
'Ludmilla'	Lightsprout shape	ovoid	conical	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'EDISON'	'Ottawa'
<input checked="" type="checkbox"/> Lightsprout: size	small	medium
<input type="checkbox"/> *Lightsprout: shape	ovoid	ovoid
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	medium	medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input type="checkbox"/> *Lightsprout: pubescence of base	medium	medium
<input type="checkbox"/> Lightsprout: size of tip in relation to base	medium	medium to large
<input checked="" type="checkbox"/> Lightsprout: habit of tip	closed to intermediate	open
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium	weak to medium
<input checked="" type="checkbox"/> Lightsprout: pubescence of tip	weak to medium	strong
<input type="checkbox"/> *Lightsprout: number of root tips	medium	many
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	short
<input type="checkbox"/> Plant: foliage structure	leaf type	intermediate

<input type="checkbox"/> *Plant: growth habit	semi-upright	type semi-upright
<input type="checkbox"/> *Stem: anthocyanin colouration	weak	absent or very weak
<input type="checkbox"/> Leaf: outline size	large	large
<input type="checkbox"/> Leaf: openness	intermediate to open	intermediate to open
<input checked="" type="checkbox"/> Leaf: presence of secondary leaflets	medium	strong to very strong
<input type="checkbox"/> Leaf: green colour	medium	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	weak	absent or very weak
<input type="checkbox"/> Second pair of lateral leaflets: size	medium	medium to large
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow to medium	medium
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	very low to low
<input type="checkbox"/> Leaflet: waviness of margin	very weak to weak	weak
<input type="checkbox"/> Leaflet: depth of veins	shallow to medium	medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	dull to medium	medium
<input checked="" type="checkbox"/> Flower bud: anthocyanin colouration	weak	medium
<input type="checkbox"/> Plant: height	medium	medium to tall
<input type="checkbox"/> *Plant: frequency of flowers	medium	medium to high
<input type="checkbox"/> Inflorescence: size	medium	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	weak	weak to medium
<input type="checkbox"/> Flower corolla: size	large	medium
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	medium	medium to strong
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	medium	medium
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	large	large to very large
<input type="checkbox"/> *Plant: time of maturity	medium	early to medium
<input type="checkbox"/> *Tuber: shape	long-oval	long-oval
<input type="checkbox"/> Tuber: depth of eyes	shallow to medium	medium
<input type="checkbox"/> *Tuber: colour of skin	yellow	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	light yellow	light yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	medium	weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'EDISON'	'Ottawa'
<input type="checkbox"/> Stem: thickness	medium	medium
<input type="checkbox"/> Tuber: skin smoothness	medium	medium
<input checked="" type="checkbox"/> Stem: wings	medium	large

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2018	Granted	'EDISON'
The Netherlands	2017	Granted	'EDISON'
United Kingdom	2018	Granted	'EDISON'

Prior sales: first sold in Germany in April 2018.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2020/052
Variety Name	'BABY LOU'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	04 May 2020
Applicant	Solana GmbH & Co KG, Hamburg, Germany.
Agent	Fairbanks Selected Seed Co Pty Ltd, Epping, VIC
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Belana' was pollinated by breeding line '03-012-4' in the Solana GmbH & Co KG Potato Breeding Program at Windeby, Germany in 2010. Subsequently selection trials occurred at multiple sites with the main selection criteria being marketable yield, maturity time, internal and external tuber quality, pest and disease resistances. Breeding line '08-021-2' was selected and released as 'BABY LOU' in 2017. Breeder: Solana GmbH & Co KG, Germany.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	ovoid
Flower	colour	white
Tuber	shape	oval
Tuber	skin colour	yellow
Tuber	flesh colour	medium yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Cardinia'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Jazzy'	tuber shape	oval	long	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'BABY LOU'	'Cardinia'
<input type="checkbox"/> Lightsprout: size	medium	medium
<input type="checkbox"/> *Lightsprout: shape	ovoid	ovoid
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	weak	strong
<input checked="" type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	medium
<input type="checkbox"/> *Lightsprout: pubescence of base	weak to medium	weak
<input type="checkbox"/> Lightsprout: size of tip in relation to base	small to medium	medium to large
<input checked="" type="checkbox"/> Lightsprout: habit of tip	closed to intermediate	open
<input checked="" type="checkbox"/> Lightsprout: anthocyanin colouration of tip	very weak to weak	medium
<input checked="" type="checkbox"/> Lightsprout: pubescence of tip	very weak to weak	medium

<input type="checkbox"/> *Lightsprout: number of root tips	many	few to medium
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	short
<input checked="" type="checkbox"/> Plant: foliage structure	leaf type	stem type
<input checked="" type="checkbox"/> *Plant: growth habit	semi-upright to spreading	upright
<input type="checkbox"/> *Stem: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Leaf: outline size	medium	medium to large
<input type="checkbox"/> Leaf: openness	intermediate to open	intermediate to open
<input type="checkbox"/> Leaf: presence of secondary leaflets	weak to medium	medium
<input checked="" type="checkbox"/> Leaf: green colour	light	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Second pair of lateral leaflets: size	medium	large
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow to medium	medium
<input checked="" type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	low to medium	very high
<input type="checkbox"/> Leaflet: waviness of margin	weak	weak
<input type="checkbox"/> Leaflet: depth of veins	shallow to medium	shallow to medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	dull	medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	absent or very weak	weak
<input checked="" type="checkbox"/> Plant: height	medium	tall
<input type="checkbox"/> *Plant: frequency of flowers	very low to low	medium
<input checked="" type="checkbox"/> Inflorescence: size	very small to small	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	absent or very weak	very weak to weak
<input type="checkbox"/> Flower corolla: size	small to medium	small to medium
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	absent or very weak	absent or very weak
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	absent or very small	absent or very small
<input type="checkbox"/> *Plant: time of maturity	early	early
<input type="checkbox"/> *Tuber: shape	oval	oval
<input type="checkbox"/> Tuber: depth of eyes	shallow	shallow
<input type="checkbox"/> *Tuber: colour of skin	yellow	yellow
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	medium	medium
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	yellow	yellow
	absent or very weak	absent or very weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'BABY LOU'	'Cardinia'
<input type="checkbox"/> Stem: thickness	thin	thin
<input type="checkbox"/> Tuber: skin smoothness	medium	smooth
<input checked="" type="checkbox"/> Stem: wings	small	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2018	Granted	'BABY LOU'
Germany	2017	Granted	'BABY LOU'
United Kingdom	2018	Granted	'BABY LOU'

Prior sales: first sold in Germany in December 2017.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2019/251
Variety Name	'ETANA'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	26 Nov 2019
Applicant	Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG, Lüneburg, Germany
Agent	Dowling Agritech, Mt Gambier East, SA
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The breeding line E 03/507/376 was pollinated by the variety 'Innovator' in the Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG Potato Breeding Program at D-Ebstorf, Germany in 2008. Subsequently selection trials occurred with the main selection criteria being marketable yield, maturity time, tuber appearance, disease resistances, processing quality and adaptability. A breeding line was selected from this cross and released as 'ETANA' in 2014/2015. Breeder: Bohm-Nordkartoffel Agrarproduktion GmbH & Co. OHG, Lüneburg, Germany.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Context State of Expression in Group of Varieties**Part**

Lightsprout	shape	broad cylindrical
Lightsprout	anthocyanin colour of base	strong
Tuber	shape	long oval
Tuber	skin colour	light beige to yellow
Tuber	flesh colour	light yellow
Plant	height	tall

Most Similar Varieties of Common Knowledge identified (VCK)**Name Comments**

'Jurata'

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Innovator'	plant time of maturity	medium to late	early	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context

	'ETANA'	'Jurata'
<input type="checkbox"/> Lightsprout: size	medium	medium
<input type="checkbox"/> *Lightsprout: shape	broad cylindrical	broad cylindrical
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	medium to strong	strong
<input checked="" type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	medium
<input checked="" type="checkbox"/> *Lightsprout: pubescence of base	medium	strong
<input type="checkbox"/> Lightsprout: size of tip in relation to base	medium	medium
<input type="checkbox"/> Lightsprout: habit of tip	intermediate	intermediate
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	weak	weak
<input type="checkbox"/> Lightsprout: pubescence of tip	weak	medium
<input type="checkbox"/> *Lightsprout: number of root tips	many	medium
<input type="checkbox"/> Lightsprout: length of lateral shoots	very short to short	medium
<input checked="" type="checkbox"/> Plant: foliage structure	intermediate type	leaf type
<input type="checkbox"/> *Plant: growth habit	semi-upright	upright to semi-upright
<input type="checkbox"/> *Stem: anthocyanin colouration	absent or very weak	weak

<input type="checkbox"/> Leaf: outline size	medium to large	large
<input checked="" type="checkbox"/> Leaf: openness	open	intermediate
<input type="checkbox"/> Leaf: presence of secondary leaflets	strong	strong
<input type="checkbox"/> Leaf: green colour	medium	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Second pair of lateral leaflets: size	medium	large
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow to medium	medium
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	absent or very low
<input type="checkbox"/> Leaflet: waviness of margin	weak	weak
<input checked="" type="checkbox"/> Leaflet: depth of veins	medium to deep	shallow to medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	medium	dull to medium
<input type="checkbox"/> Flower bud: anthocyanin colouration	weak	medium
<input type="checkbox"/> Plant: height	tall	tall
<input type="checkbox"/> *Plant: frequency of flowers	high to very high	high
<input type="checkbox"/> Inflorescence: size	large	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	very weak to weak	medium
<input type="checkbox"/> Flower corolla: size	medium to large	medium to large
<input checked="" type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	strong	absent or very weak
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	absent or low	absent or low
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	large	absent or very small
<input type="checkbox"/> *Plant: time of maturity	medium to late	medium to late
<input type="checkbox"/> *Tuber: shape	long-oval	long-oval
<input type="checkbox"/> Tuber: depth of eyes	very shallow to shallow	shallow to medium
<input type="checkbox"/> *Tuber: colour of skin	light beige	light beige
<input type="checkbox"/> *Tuber: colour of base of eye	yellow	yellow
<input type="checkbox"/> *Tuber: colour of flesh	light yellow	light yellow
<input type="checkbox"/> Tuber: anthocyanin colouration of skin in reaction to light (light beige and yellow skinned varieties only)	absent or very weak	weak

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'ETANA'	'Jurata'
<input checked="" type="checkbox"/> Stem: thickness	medium	thick
<input type="checkbox"/> Tuber: skin smoothness	medium	medium
<input checked="" type="checkbox"/> Stem: wings	small	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2016	Granted	'ETANA'

Prior sales: first sold in The Netherlands in January 2018.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2016/280
Variety Name	'Cheyenne'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	04 Apr 2017
Applicant	Grocep S.I.C.A., LAURIERE, France
Agent	Zerella Holdings Pty Ltd, Virginia, SA 5120
Qualified Person	Stewart McKay

Details of Comparative Trial

Location	CTC for potato at Agronico P/L, Leith, Tasmania
Descriptor	TG/23/6
Period	2 nd Feb 2019 – 30 th May 2019
Conditions	Potato plants were grown from hardened off in-vitro plantlets and placed into a recirculating hydroponic propagation system in a controlled environment. Standard nutrient fertilization and disease/insect preventative controls were used.
Trial Design	RCBD with two replicates consisting of 30 plants per replicate were used
Measurements	Trial data was collected on 15th May 2019 using the standard UPOV descriptors. Lightsprout photos were taken on 31st January 2022 and tuber assessments done on 15th May 2019.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: 'Cheyenne' resulted from a controlled pollination of its parents following a multiyear multilocation selection trial. Selection was based on several characters: yield, internal tuber defects, susceptibility to bruising, susceptibility to de-sprouting, culinary quality (disintegration, blackening after cooking), dry matter content, suitability for different uses (chips, crisps), Adaptation assessment of the variety in different production locations in France, Adaptation assessment of resistance to leaf blight, tuber blight susceptibility, assessment of nematodes, common scab. Breeder: Hervé Dubreuil, Grocep S.I.C.A., LAURIERE, France.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	proportion of blue in anthocyanin coloration of base	high
Tuber	colour of skin	red
Tuber	shape	long
Tuber	colour of flesh	dark yellow
	intensity of anthocyanin colouration	strong

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Cerisa'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Cheyenne'	'Cerisa'
<input type="checkbox"/> Lightsprout: size	small to medium	medium
<input checked="" type="checkbox"/> *Lightsprout: shape	broad cylindrical	ovoid
<input type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	strong to very strong	strong to very strong
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	high	high
<input type="checkbox"/> *Lightsprout: pubescence of base	medium	medium to strong
<input type="checkbox"/> Lightsprout: size of tip in relation to base	very small to small	small
<input type="checkbox"/> Lightsprout: habit of tip	closed	closed
<input checked="" type="checkbox"/> Lightsprout: anthocyanin colouration of tip	medium	strong
<input checked="" type="checkbox"/> Lightsprout: pubescence of tip	weak to medium	strong to very strong
<input type="checkbox"/> *Lightsprout: number of root tips	medium	medium to many
<input type="checkbox"/> Lightsprout: length of lateral shoots	very short to short	very short to short
<input type="checkbox"/> Plant: foliage structure	stem type	stem type
<input type="checkbox"/> *Plant: growth habit	semi-upright to spreading	semi-upright to spreading
<input checked="" type="checkbox"/> *Stem: anthocyanin colouration	strong	medium
<input checked="" type="checkbox"/> Leaf: outline size	small	medium to large
<input type="checkbox"/> Leaf: openness	open	open
<input type="checkbox"/> Leaf: presence of secondary leaflets	weak	weak
<input type="checkbox"/> Leaf: green colour	light to medium	light to medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	medium to strong	medium
<input type="checkbox"/> Second pair of lateral leaflets: size	very small to small	small
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow to medium	narrow to medium
<input checked="" type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	high to very high	medium
<input type="checkbox"/> Leaflet: waviness of margin	medium	weak to medium
<input type="checkbox"/> Leaflet: depth of veins	shallow to medium	shallow to medium
<input type="checkbox"/> Leaflet: glossiness of the upperside	dull to medium	dull
<input type="checkbox"/> Leaflet: pubescence of blade at apical rosette	present	present
<input type="checkbox"/> Flower bud: anthocyanin colouration	medium	weak
<input type="checkbox"/> Plant: height	short to medium	medium
<input type="checkbox"/> *Plant: frequency of flowers	low	low to medium

<input type="checkbox"/> Inflorescence: size	small to medium	medium
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	medium to strong	weak to medium
<input type="checkbox"/> Flower corolla: size	medium	medium
<input type="checkbox"/> *Flower corolla: intensity of anthocyanin colouration on inner side	strong	medium to strong
<input type="checkbox"/> *Flower corolla: proportion of blue in anthocyanin colouration on inner side	high	medium
<input type="checkbox"/> *Flower corolla: extent of anthocyanin colouration on inner side	large	medium to large
<input type="checkbox"/> *Plant: time of maturity	early	early to medium
<input type="checkbox"/> *Tuber: shape	long	long
<input checked="" type="checkbox"/> Tuber: depth of eyes	medium	deep
<input type="checkbox"/> *Tuber: colour of skin	red	red
<input type="checkbox"/> *Tuber: colour of base of eye	red	red
<input type="checkbox"/> *Tuber: colour of flesh	dark yellow	dark yellow

Prior Applications and Sales:

Country	Year	Status	Name Applied
Switzerland	2016	Applied	'Cheyenne'
EU	2011	Granted	'Cheyenne'

No prior sale.

Description: Stewart McKay, Tasmania

Details of Application

Application Number	2019/209
Variety Name	'Sorrento'
Genus Species	<i>Solanum tuberosum</i>
Common Name	Potato
Accepted Date	04 Nov 2019
Applicant	James Hutton Institute, Dundee, Scotland, UK
Agent	Mitolo Developments Pty Ltd, Virginia, SA
Qualified Person	John Fennell

Details of Comparative Trial

Location	Waikerie SA
Descriptor	Potato (<i>Solanum tuberosum</i>) TG/23/6
Period	October 2021 to June 2022
Conditions	Plantlets ex quarantine raised from tissue cultures and planted into potting mix in 200mm diameter plastic pots on 6 October 2021. Pots placed on benches in a screened polythene clad greenhouse
Trial Design	Sixty plants of the candidate and comparator varieties were planted and placed next to each other for direct visual comparison.
Measurements	Observations of foliage and flowers, where present, were taken on 17 November 2021. Tubers were harvested in the last week of December 2021 and were cool stored and recorded on 19 March 2022. Tubers were returned to cool store for 6 weeks, then placed under illumination and the developing lightsprouts were recorded and photographed on 2 June 2022.

RHS Chart - edition**Origin and Breeding**

Controlled pollination: The variety 'Vales Sovereign' was pollinated by the variety 'Axona' in the James Hutton Institute Potato Breeding Program at Dundee, Scotland. Subsequently selection trials occurred at multiple sites with the main selection criteria being marketable yield, maturity time, internal and external tuber quality, and disease resistances. Breeding line 03.Z.4A3 was selected and released as 'SORRENTO' in 2015. Breeder: James Hutton Ltd, Dundee, Scotland, UK.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Lightsprout	shape	ovoid
Tuber	skin colour	red parti-coloured
Tuber	shape	oval

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Vales Sovereign'	Female parent

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing State of Expression	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Chicago' tubeflesh	cream colour		light yellow	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Sorrento'	'Vales Sovereign'
<input type="checkbox"/> Lightsprout: size	small to medium	small
<input type="checkbox"/> *Lightsprout: shape	ovoid	ovoid
<input checked="" type="checkbox"/> *Lightsprout: intensity of anthocyanin colouration	strong	medium
<input type="checkbox"/> *Lightsprout: proportion of blue in anthocyanin colouration of base	absent or low	absent or low
<input type="checkbox"/> *Lightsprout: pubescence of base	weak	weak to medium
<input checked="" type="checkbox"/> Lightsprout: size of tip in relation to base	small to medium	medium to large
<input type="checkbox"/> Lightsprout: habit of tip	closed to intermediate	intermediate
<input type="checkbox"/> Lightsprout: anthocyanin colouration of tip	weak to medium	medium
<input checked="" type="checkbox"/> Lightsprout: pubescence of tip	absent or very weak	medium
<input type="checkbox"/> *Lightsprout: number of root tips	few	few
<input type="checkbox"/> Lightsprout: length of lateral shoots	short	medium
<input type="checkbox"/> Plant: foliage structure	intermediate type	intermediate type
<input checked="" type="checkbox"/> *Plant: growth habit	semi-upright	upright
<input checked="" type="checkbox"/> *Stem: anthocyanin colouration	absent or very weak	weak to medium
<input type="checkbox"/> Leaf: outline size	medium	medium to large
<input type="checkbox"/> Leaf: openness	intermediate to open	intermediate to open
<input type="checkbox"/> Leaf: presence of secondary leaflets	medium to strong	medium to strong
<input type="checkbox"/> Leaf: green colour	medium to dark	medium
<input type="checkbox"/> Leaf: anthocyanin colouration on midrib of upper side	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Second pair of lateral leaflets: size	large	medium
<input type="checkbox"/> Second pair of lateral leaflets: width in relation to length	narrow to medium	medium
<input type="checkbox"/> Terminal and lateral leaflets: frequency of coalescence	absent or very low	absent or very low
<input checked="" type="checkbox"/> Leaflet: waviness of margin	weak	medium

<input type="checkbox"/> Leaflet: depth of veins	medium to deep	medium to deep
<input type="checkbox"/> Leaflet: glossiness of the upper side	medium to glossy	medium
<input checked="" type="checkbox"/> Flower bud: anthocyanin colouration	absent or very weak	weak to medium
<input type="checkbox"/> Plant: height	medium	medium to tall
<input checked="" type="checkbox"/> *Plant: frequency of flowers	absent or very low	high
<input type="checkbox"/> Inflorescence: size	small to medium	small
<input type="checkbox"/> Inflorescence: anthocyanin colouration on peduncle	weak	absent or very weak
<input type="checkbox"/> Flower corolla: size	medium	medium
<input type="checkbox"/> *Plant: time of maturity	late	late
<input type="checkbox"/> *Tuber: shape	oval	oval
<input type="checkbox"/> Tuber: depth of eyes	shallow	shallow to medium
<input type="checkbox"/> *Tuber: colour of skin	red parti-coloured	red parti-coloured
<input type="checkbox"/> *Tuber: colour of base of eye	red	red
<input type="checkbox"/> *Tuber: colour of flesh	light yellow	light yellow

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Sorrento'	'Vales Sovereign'
<input type="checkbox"/> stem: thickness	medium	medium
<input checked="" type="checkbox"/> tuber: skin smoothness	rough	medium
<input checked="" type="checkbox"/> tuber: intensity of skin colour	light	medium
<input checked="" type="checkbox"/> stem: wings	small	large

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2016	Granted	'SORRENTO'

Prior sales: first sold in Malta in October 2015.

Description: John Fennell, Littlehampton, SA 5250.

Details of Application

Application Number	2020/050
Variety Name	'NN08002'
Genus Species	<i>Rubus idaeus</i>
Common Name	Raspberry
Accepted Date	14 Apr 2020
Applicant	Pacific Berries LLC, 8021 Woodland Road, Ferndale, WA, USA
Agent	AJ Park, Sydney, NSW
Qualified Person	Elizabeth Kitson

Details of Comparative Trial

Overseas Testing Authority	Prüfstelle Wurzen
Overseas Data Reference Number	HMB332
Location	Bundessortenamt, Germany
Descriptor	CPVO TP/043/2
Period	2020-2021
Conditions	Grown under outdoor conditions
Trial Design	Plants of the candidate were observed along side comparator plants and reference variety plants.
Measurements	Observations taken from a minimum of 10 plants or plant parts taken off each of the ten plants.
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: The crosses were made in 2006 between 'Wakefield' (female parent) and NR14 (male parent). The seedling was selected in 2008 for suitability for machine harvesting and process markets and propagated by tissue culture in 2010. From 2009-2012 the variety was assessed in clonal trials in Lynden, Washington, USA. 'NN08002' continues to be propagated by vegetative cuttings arising from root cuttings along with tissue culture. No off types have been observed.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Very young shoot	anthocyanin coloration of apex during rapid growth	present
Spine	presence	present
Fruit	colour	dark red
Fruit	main bearing type	only on previous seasons' cane in summer
Plant	time of fruit ripening	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'BC 92-9-15'	
'WSU 1507'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Wakefield'	Plant number of current season's cane	medium to many	few	seed parent
'NR14'	Fruit firmness	medium to firm	medium	pollen parent

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'NN08002'	'BC 92-9-15'	'WSU 1507'
<input type="checkbox"/> Plant: habit	semi-upright		
<input type="checkbox"/> *Plant: number of current season's canes	medium to many		
<input type="checkbox"/> *Very young shoot: anthocyanin colouration of apex during rapid growth	present		
<input type="checkbox"/> *Very young shoot: intensity of anthocyanin colouration of apex during rapid growth	weak to medium		
<input type="checkbox"/> Current season's cane: bloom	medium		
<input type="checkbox"/> Current season's cane: anthocyanin colouration	strong		
<input type="checkbox"/> Current season's cane: length of internode	short to medium		
<input type="checkbox"/> Current season's cane: length of vegetative bud	medium to long		
<input type="checkbox"/> *Dormant cane: length (varieties which fruit on previous season's cane in summer)	long		
<input checked="" type="checkbox"/> *Dormant cane: colour (varieties which fruit on previous season's cane in summer)	purplish brown		brown
<input type="checkbox"/> *Spines: presence	present		
<input type="checkbox"/> *Spines: density (varieties with spines present only)	medium		
<input type="checkbox"/> Spines: size of base (varieties with spines present only)	medium to large		
<input type="checkbox"/> Spines: length (varieties with spines present only)	medium		

<input checked="" type="checkbox"/> Spines: colour (varieties with spines present only)	purple	greenish brown
<input type="checkbox"/> *Leaf: green colour of upper side	medium	
<input type="checkbox"/> *Leaf: predominant number of leaflets	equally three and five	
<input type="checkbox"/> Leaf: profile of leaflets in cross section	concave	
<input type="checkbox"/> *Leaf: rugosity	strong	
<input type="checkbox"/> Leaf: relative position of lateral leaflets	free	
<input type="checkbox"/> Terminal leaflet: length	medium to long	
<input type="checkbox"/> Terminal leaflet: width	broad	
<input checked="" type="checkbox"/> Pedicel: number of spines	very few to few	few to medium
<input type="checkbox"/> *Peduncle: presence of anthocyanin colouration	present	
<input type="checkbox"/> *Peduncle: intensity of anthocyanin colouration	medium to strong	
<input type="checkbox"/> Flower: size	medium to large	
<input type="checkbox"/> Fruiting lateral: attitude (varieties which fruit on previous year's cane in summer)	semi-erect	
<input type="checkbox"/> *Fruiting lateral: length (varieties which fruit on previous year's cane in summer)	medium	
<input type="checkbox"/> *Fruit: length	medium to long	
<input type="checkbox"/> *Fruit: width	medium to broad	
<input type="checkbox"/> *Fruit: ratio length/width	large	
<input type="checkbox"/> *Fruit: general shape in lateral view	conical	
<input type="checkbox"/> Fruit: size of single drupe	medium to large	
<input type="checkbox"/> *Fruit: colour	dark red	
<input checked="" type="checkbox"/> Fruit: glossiness	weak to medium	medium to strong
<input type="checkbox"/> *Fruit: firmness	medium to firm	
<input type="checkbox"/> Fruit: adherence to plug	medium	
<input type="checkbox"/> *Fruit: main bearing type	only on previous year's cane in summer	
<input type="checkbox"/> *Plant: time of vegetative bud burst (varieties which fruit on previous year's cane in summer)	early	
<input type="checkbox"/> *Time of: beginning of flowering on previous year's cane (varieties which fruit on previous year's cane in summer)	early	
<input type="checkbox"/> *Time of: beginning of fruit ripening on previous year's cane (varieties which fruit of previous year's cane in summer)	medium	
<input type="checkbox"/> Length of: fruiting period on previous year's cane (varieties which fruit on previous year's cane in summer)	medium	

Prior Applications and Sales:

Country	Year	Status	Name Applied
Canada	2018	Granted	'NN08002'
Chile	2021	Granted	'NN08002'
EU	2018	Granted	'NN08002'
Mexico	2019	Granted	'NN08002'
Serbia	2020	Applied	'NN08002'
Switzerland	2019	Granted	'NN08002'
Ukraine	2020	Granted	'NN08002'
UK	2022	Applied	'NN08002'
USA	2018	Granted	'NN08002'

First sold in USA in May 2016

Description: Elizabeth Kitson, New Zealand Institute for Plant and Food Research, Motueka, New Zealand

Details of Application

Application Number	2019/009
Variety Name	'YRL39'
Genus Species	<i>Oryza sativa</i>
Common Name	Rice
Accepted Date	30 Apr 2019
Applicant	The Crown in right of the State of New South Wales acting through the Department of Primary Industries, Orange NSW; Riceworkers Ltd. (trading as SunRice), Leeton NSW; AgriFutures Australia, Wagga Wagga NSW.
Agent	NSW Department of Primary Industries, Orange NSW
Qualified Person	Peter Snell

Details of Comparative Trial

Location	Leeton Field Station, NSW
Descriptor	TG/16/9
Period	April 2019
Conditions	The DUS trial was sown with conventional direct seeded rice culture and inspected prior to harvest in April 2019
Trial Design	Trial was a RCB design with some modification to ensure candidate and VCKs were in close proximity to allow photographic documentation. Plots were 2.1 by 5 meters long with row spacing being 6 inches
Measurements	As per UPOV requirements
RHS Chart - edition	5 th edition

Origin and Breeding

Controlled pollination: 'YRL39' was derived from cross YR83049 made in 1983, using a selection from an un-replicated plot (YUD83_D34) as the female parent and the variety 'Pelde' (YR.13.89.11/Bluebelle) as the male parent. The female parent was a complex cross between 'Dawn'/'Kulu' and 'IR579'/'Kulu', where 'Dawn' is Texas line from a cross between 'CP231'/'TP49-CI9515' (Smith & Dilday, 2002) 'Kulu' is an Australian bred long grain released in 1967 whose pedigree is 'Bluebonnet 50'/'Calrose' (McDonald, 1994), IR579 is better known as IRRI line IR22 (Khush and Virk, 2005). Full pedigree information is available in Figure 1. F1 seeds were sown in the glasshouse in early 1984, and an F2 population sown in the field at Yanco Agricultural Institute in October 1984. Panicles were selected from the F2 population and underwent mandatory culls on brown rice quality, acceptable panicles were sown as F3 panicles rows in October 1985. An additional cycle of panicle selection and culls on brown grain quality resulted in 58 panicles being sown the subsequent season for seed increase (YSC87 1:71). One of the eighteen short rows harvested was visually scored for quality parameters. Seed from row YSC87 1:71 (generation 3:1) was bulk harvested (YR83049-18-1) and entered unreplicated field testing the following season CY1988. Exceptional yield performance in replicated testing of long grain lines over two locations in CY1990 (as YRB90 v52) and over two sowing dates by two locations in CY1991 (as YRB91 v12 and YRD91 v21 respectively) saw its entry into the District trial evaluation program in CY1992 as YRL39. Breeder: Dr Peter Snell.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Time of	heading	late
Glume	length	medium to long
Basal leaf	sheath colour	green

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Doongara'	commercially grown in northern Queensland since 2010
'Topaz'	sporadically grown in northern Queensland since 2016

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'YRL39'	'Doongara'	'Topaz'
<input type="checkbox"/> Coleoptile: anthocyanin colouration	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> Basal leaf: sheath colour	green	green	green
<input checked="" type="checkbox"/> Leaf: intensity of green colour	medium	dark	light
<input type="checkbox"/> Leaf: anthocyanin colouration	absent	absent	absent
<input type="checkbox"/> Leaf sheath: anthocyanin colouration	absent	absent	absent
<input checked="" type="checkbox"/> Leaf blade: pubescence of surface	medium	absent or very weak	absent or very weak
<input type="checkbox"/> *Leaf: anthocyanin colouration of auricles	absent	absent	absent
<input type="checkbox"/> Leaf: shape of ligule	acute	acute	acute
<input type="checkbox"/> Leaf: colour of ligule	colourless	colourless	colourless
<input type="checkbox"/> Leaf blade: length	medium	medium	medium
<input checked="" type="checkbox"/> Leaf blade: width	narrow	broad	narrow to medium
<input type="checkbox"/> *Flag leaf: attitude of blade (early observation)	erect to semi-erect	semi-erect to horizontal	semi-erect
<input checked="" type="checkbox"/> *Flag leaf: attitude of blade (late observation)	erect	semi-erect	semi-erect to horizontal
<input type="checkbox"/> Culm: habit	erect to semi-erect	erect	erect
<input type="checkbox"/> *Time of: heading	late	late	late
<input type="checkbox"/> Male: sterility	absent	absent	absent
<input type="checkbox"/> Lemma: anthocyanin colouration of keel (early observation)	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> Lemma: anthocyanin colouration of area below apex (early observation)	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Lemma: anthocyanin colouration of apex (early observation)	absent or very weak	absent or very weak	absent or very weak
<input type="checkbox"/> *Spikelet: colour of stigma	light green	light green	light green

<input checked="" type="checkbox"/> Stem: thickness	thin	thick	thin to medium
<input type="checkbox"/> *Stem: length (non-prostrate varieties only)	medium	medium	medium to long
<input type="checkbox"/> *Stem: anthocyanin colouration of nodes	absent	absent	present
<input type="checkbox"/> Stem: intensity of anthocyanin colouration of nodes	very weak	very weak	very weak to weak
<input type="checkbox"/> Stem: anthocyanin colouration of internodes	absent	absent	absent
<input type="checkbox"/> *Panicle: length of main axis	medium	medium	medium
<input type="checkbox"/> Panicle: number per plant	few to medium	few to medium	few to medium
<input type="checkbox"/> Panicle: awns	absent	absent	absent
<input checked="" type="checkbox"/> *Spikelet: pubescence of lemma	strong	absent or very weak	absent or very weak
<input checked="" type="checkbox"/> Spikelet: colour of tip of lemma	brown	brown	white
<input checked="" type="checkbox"/> *Panicle: attitude in relation to stem	slightly drooping	semi-upright	slightly drooping
<input type="checkbox"/> *Panicle: attitude of branches	erect	erect	erect
<input checked="" type="checkbox"/> Panicle: exertion	moderately-well exerted	partly exerted to just exerted	just exerted
<input type="checkbox"/> Time of: maturity	late	absent	late
<input type="checkbox"/> Leaf: time of senescence	intermediate to late	absent	early
<input checked="" type="checkbox"/> Lemma: colour	gold	absent or very weak	light gold
<input type="checkbox"/> Lemma: ornamentation	gold furrows	absent	gold furrows
<input type="checkbox"/> Glume: length	medium to long	medium to long	medium
<input checked="" type="checkbox"/> Glume: colour	gold	straw	straw
<input type="checkbox"/> *Decorticated grain: length	medium to long	medium to long	medium to long
<input type="checkbox"/> Decorticated grain: width	narrow to medium	broad	medium
<input type="checkbox"/> Endosperm: type	non-glutinous	non-glutinous	non-glutinous
<input checked="" type="checkbox"/> Endosperm: content of amylose	state 4	state 5	state 4
<input checked="" type="checkbox"/> Alkali: digestion	low digested to intermediate	low digested	intermediate
<input checked="" type="checkbox"/> *Decorticated grain: aroma	absent or very weak	absent or very weak	strong

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context

‘YRL39’ ‘Doongara’ ‘Topaz’

Leaf: Degree of abaxial curling

strong

weak

medium

Prior Applications and Sales: Nil

Description: Dr Peter Snell, Yanco NSW

Details of Application

Application Number	2016/098
Variety Name	'Ring a Ding Ding'
Genus Species	<i>Correa pulchella</i>
Common Name	Salmon Correa
Accepted Date	16 Jun 2016
Applicant	Plant Growers Australia, Wonga Park, VIC
Agent	Plants Management Australia Pty. Ltd, Dodge Ferry, TAS
Qualified Person	Steve Eggleton

Details of Comparative Trial

Location	Wonga Park, VIC
Descriptor	PBR CORR Correa
Period	May 2017 to May 2018
Conditions	Trial conducted in the open with overhead irrigation, plants propagated from cutting in May 2017 and transferred into 140mm pots in October 2017. Pots filled with soilless, pine bark-based mix with controlled release fertilizers. Appropriate pest and disease treatments were applied as required.
Trial Design	Twelve plants of each variety in a randomised design
Measurements	From ten plants randomly selected
RHS Chart - edition	Fifth Edition

Origin and Breeding

Controlled Pollination: Occurred between female 'Autumn Blaze' and male 'Coffin Bay' in August 2009. A number of seedlings were raised to flowering maturity over the following 2 years. Two selections were made from this cross and further evaluated for another year. In 2011 one candidate 108-2 was selected for propagation, production, and garden trials. Final selection occurred in 2014 based on bright red/orange flower colour, high flower volume, high visibility of flower presentation and plant height short. All subsequent generations have remained uniform and stable. Breeder: Plant Growers Australia, Wonga Park, VIC.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Flowers	arrangement	solitary
Flower	shape	campanulate
Flower	RHS colour group	red
Flower	number of colours	one

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Autum Blaze'	
'Jezabel'	
'Coffin Bay'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Ring a Ding Ding'	'Autumn Blaze'	'Coffin Bay'	'Jezabel'
<input type="checkbox"/> Plant: growth habit	bush	-	bush	bush
<input checked="" type="checkbox"/> Plant: attitude of branches	erect to semi-erect	semi-erect to prostrate	erect	erect
<input type="checkbox"/> Plant: height	short (< 1m)	short (< 1m)	medium (1-2 m)	medium (1-2 m)
<input type="checkbox"/> Stem: colour (RHS colour chart)	199A	200D	200D	N199C
<input type="checkbox"/> Stem: hairiness	medium	medium	medium	strong
<input type="checkbox"/> Stem: colour of hairs	brownish	brownish	brownish	brownish
<input type="checkbox"/> Leaf: shape	ovate	ovate	ovate	ovate
<input type="checkbox"/> Leaf: apex	acute	acute	acute	obtuse
<input type="checkbox"/> Leaf: undulation of margin	weak	weak	weak	absent or very weak
<input type="checkbox"/> Leaf: cross section	flat	flat	flat	flat
<input type="checkbox"/> Leaf: longitudinal section	concave	flat	concave	flat
<input type="checkbox"/> Leaf: arrangement	opposite	opposite	opposite	opposite
<input type="checkbox"/> Leaf: upper side hairiness	very weak to weak	weak to medium	absent or very weak	weak
<input type="checkbox"/> Leaf: upper side hairiness colour	whitish	whitish	whitish	whitish
<input type="checkbox"/> Leaf: upper side colour (RHS chart)	137B	137A	137B	137A
<input type="checkbox"/> Leaf: lower side hairiness	very weak to weak	weak	absent or very weak	weak to medium
<input type="checkbox"/> Leaf: lower side colour (RHS chart)	147B	146B	146B	147B
<input type="checkbox"/> Petiole: length	very short	very short	very short	very short
<input type="checkbox"/> Flowers: arrangement	solitary	solitary	solitary	solitary
<input type="checkbox"/> Flowers: attitude	pendulous	prostrate to pendulous	pendulous	pendulous
<input type="checkbox"/> Flowers: position	terminal and axillary	terminal	terminal and axillary	terminal
<input type="checkbox"/> Flowers: shape	campanulate	campanulate	campanulate	campanulate
<input type="checkbox"/> Flowers: length	medium	medium to long	medium to long	medium
<input checked="" type="checkbox"/> Flowers: diameter	medium	broad	medium	medium
<input type="checkbox"/> Flowers: number of colours	one	one	one	one
<input type="checkbox"/> Perianth: inner colour (RHS chart)	39C	39C	52D	55B
<input type="checkbox"/> Perianth: lobes reflexing	strong	strong	medium to strong	medium
<input type="checkbox"/> Calyx: colour (RHS chart)	143C	143B	144B+C	144C

<input type="checkbox"/>	Flower buds: width	medium	broad	medium	medium
<input checked="" type="checkbox"/>	Style: length	very long	long	very long	long
<input type="checkbox"/>	Style: colour	green	green	green	green
<input type="checkbox"/>	Anther: position in relation to corolla	above	above	above	below
<input type="checkbox"/>	Anther: colour	yellow	yellow	yellow	yellow

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Ring a Ding Ding'	'Autumn Blaze'	'Coffin Bay'	'Jezabel'
<input checked="" type="checkbox"/> Plant: volume of flowers	high	-	low	medium to high
<input type="checkbox"/> Leaf : size	medium	-	medium	medium
<input type="checkbox"/> Leaf: base	actue-obtuse	-	actue-obtuse	actue-obtuse
<input type="checkbox"/> Flower: RHS colour group	red	red	red	red
<input checked="" type="checkbox"/> Perianth: colour (RHS colour chart)	42C	42B	52B	53C

Prior Applications and Sales: Nil

First sold in May 2015 in Australia.

Description: Steve Eggleton, PGA, Wonga Park, VIC

Details of Application

Application Number	2021/232
Variety Name	‘CJAUS-1’
Genus Species	<i>Sesamum indicum</i>
Common Name	Sesame
Accepted Date	22 Dec 2021
Applicant	CJ Cheiljedang, Suwon-si 16495, Republic of Korea
Agent	Eurofins Agrosience Services Pty Ltd, Shepparton, VIC 3630
Qualified Person	Leslie Mitchell

Details of Comparative Trial

Location	Toowoomba, QLD
Descriptor	TG/292/1
Period	October 2021 to April 2022
Conditions	Plants germinated in glasshouse then space planted in the field on December 17, 2021. Fertilizer applied at planting and crop grown under natural rainfall. Insecticides and fungicides applied as required. Heavy flooding rainfall, at pod set, severely downgraded the crop and resulting seed yield was reduced.
Trial Design	RCB X 4 reps each of a minimum of 50 plants
Measurements	As per TG/292/1
RHS Chart - edition	2016

Origin and Breeding

Controlled pollination: A single cross was made between the parental breeding line 'Milsung' and the commercial line 'Sesaco 4' in 2016. Single plant selection was carried out on the F3 segregating bulk. This was followed by single plant selection in generation F4-F6. F7 lines were sent to Australia and completed quarantine in 2019. Observation trials were grown in 2019, followed by replicated preliminary trials Northern Australia in 2019. Advanced variety trials were grown in 2020 at same locations in QLD. Throughout these breeding cycles the variety has remained stable and true to type. Breeder: WonJoo Hwang, CJ Cheiljedang, Republic of South Korea.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/PlantContext Part	State of Expression in Group of Varieties
Plant growth type	indeterminate
Flower stem number of flowers per axil	more than one
Capsule number of carpels	more than two

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Milsung'	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
'Sesaco 4'	Seed coat: colour	yellowish brown	black	
'Nambda'	Capsule: resistance to shattering	strong	weak	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'CJAUS-1'	'Milsung'
<input type="checkbox"/> Plant: growth habit	indeterminate	indeterminate
<input type="checkbox"/> Plant: branching	present	present
<input type="checkbox"/> Plant: position of branches	basal only	basal only
<input type="checkbox"/> Stem: number of nodes to 1st flower	very few to few	few
<input type="checkbox"/> Stem: pubescence	medium	medium
<input type="checkbox"/> Stem: length	medium	medium
<input type="checkbox"/> Leaf blade: length	medium to long	long
<input checked="" type="checkbox"/> Leaf blade: width	medium to broad	broad to very broad
<input type="checkbox"/> Leaf blade: length/width ratio	medium	medium
<input type="checkbox"/> Leaf blade: degree of lobing	very weak	very weak
<input checked="" type="checkbox"/> Leaf blade: green colour	medium	light
<input type="checkbox"/> Leaf blade: anthocyanin colouration	absent	absent
<input checked="" type="checkbox"/> Petiole: length	short	medium to long
<input type="checkbox"/> Petiole: anthocyanin colouration	present	present
<input type="checkbox"/> Flowering stem: number of flowers per leaf axil	more than one	more than one
<input type="checkbox"/> Flowering stem: nectaries	present	present
<input type="checkbox"/> Flower: pink colour at outer side of corolla	medium	medium
<input type="checkbox"/> Flower: pubescence of corolla	strong	strong
<input type="checkbox"/> Capsule: number of carpels	more than two	more than two
<input checked="" type="checkbox"/> Capsule: length	medium to long	short to medium
<input checked="" type="checkbox"/> Capsule: maximum width	medium to broad	narrow to medium
<input type="checkbox"/> Capsule: pubescence	medium to strong	medium
<input type="checkbox"/> Capsule: anthocyanin colouration	absent	absent
<input checked="" type="checkbox"/> Capsule: dehiscence at ripening	absent	present

<input checked="" type="checkbox"/>	Seed coat: colour	brown	grey
<input type="checkbox"/>	Seed coat: intensity of colour	light to medium	light to medium
<input type="checkbox"/>	Seed coat: relief	smooth	smooth
<input type="checkbox"/>	Time of: beginning of flowering	medium	medium
<input type="checkbox"/>	Time of: ripening	medium	early to medium

Statistical Table

Organ/Plant Part: Context	'CJAUS-1'	'Milsung'
<input checked="" type="checkbox"/> Petiole: length (mm)		
Mean	50.8	59.5
Std. Deviation	10.8	9.4
Lsd/sig	P<0.001	P≤0.01
<input checked="" type="checkbox"/> Leaf: length (mm)		
Mean	150.1	160.2
Std. Deviation	16.6	14.7
Lsd/sig	P<0.001	P≤0.01
<input checked="" type="checkbox"/> Leaf: width (mm)		
Mean	66.9	77.7
Std. Deviation	11.2	10.2
Lsd/sig	P<0.001	P≤0.01
<input checked="" type="checkbox"/> Leaf: length/width ratio		
Mean	2.3	2.1
Std. Deviation	0.4	0.3
Lsd/sig	P<0.001	P≤0.01
<input checked="" type="checkbox"/> Capsule: length (mm)		
Mean	34.1	31.3
Std. Deviation	2.8	3.1
Lsd/sig	P<0.001	P≤0.01
<input checked="" type="checkbox"/> Capsule: width (mm)		
Mean	8.9	8.4
Std. Deviation	0.2	0.9
Lsd/sig	P<0.001	P≤0.01

Prior Applications and Sales: Nil.

Description: Leslie Mitchell, Shepparton, VIC 3630.

Details of Application

Application Number	2021/248
Variety Name	'Gwydir'
Genus Species	<i>Glycine max</i>
Common Name	Soybean
Synonym	T171A-2
Accepted Date	21 Dec 2021
Applicant	1. Commonwealth Scientific and Industrial Research Organisation, St Lucia, QLD 4067, Australia 2. NSW Department of Primary Industries, Orange, NSW 2800, Australia 3. Grains Research and Development Corporation, Kingston, ACT 2603, Australia
Agent	CSIRO Agriculture and Food, St Lucia, QLD
Qualified Person	Andrew James

Details of Comparative Trial

Location	Forest Hill, QLD
Descriptor	TG/80/6
Period	January to June 2022
Conditions	Soil at the CSIRO Forest Hill Research station was formed into 1.5m wide beds and fertilised with sufficient Phosphorus and Potassium fertilizer to ensure excellent growth. The field had previously been used for soybean cropping, so no additional Rhizobial inoculant was applied. Seed was sown into four row plots 6 m in length, and irrigated with sufficient water to achieve uniform establishment. The trial was maintained substantially free from weeds and insect pests.
Trial Design	Randomised complete block design.
Measurements	Days from planting to appearance of the first flower on 50% of the plants in a plot was recorded. At flowering, the length and width of the terminal leaflet on ten plants within each replicate was measured. At maturity, the number of main stem nodes, the total number of nodes, the length of the main stem was recorded on ten plants within each replicate. The weight of 100 seeds was recorded subsequent to threshing of each plot.
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: F1 plant sown in January 2010 and confirmed as hybrid by ovate leaf shape inherited from paternal parent. F2 to F4 generations grown as single seed descent in the CSIRO Gatton glasshouse. F5 generation sown in a short row in the field at Gatton in February 2012. From the summer of 2013/14 and each year until the summer of 2020/21 the line identified as T171A-2 was grown in varietal evaluation trials and in farmer evaluation trials in northern NSW. Varietal evaluation trials were grown at Grafton each summer and at Narrabri in 2013/14. T171A-2 was also grown in farmer evaluation trials Oakwood and at Tabulam. Varietal evaluation trials were also grown at Gatton in 2019/20 and in 2020/21. The varietal was also grown at Giru in north Qld over the winter of 2020. T171A-2 was selected for its high yield potential, colourless hilum, high protein content, lodging resistance and apparent immunity to soybean rust. Breeder: Andrew James, CSIRO, St Lucia, QLD.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Hypocotyl	anthocyanin colouration	absent
Plant	growth type	determinate
Plant	growth habit	erect
Plant	colour of hairs on the main stem	grey
Leaf	shape of the lateral leaflet	lanceolate
Flower	colour	white
Seed	size	medium
Seed	shape	spherical flattened
Seed	ground colour of the testa	yellow
Seed	hilum colour	yellow

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
‘Fraser’	Most similar variety of common knowledge being of broadly similar maturity and similar in other traits.

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
‘Kuranda HB1’	Plant height	medium	tall	
‘Kuranda HB1’	Plant time of beginning of flowering	medium	late to very late	
‘Kuranda HB1’	Plant time of maturity	medium	late to very late	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘Gwydir’	‘Fraser’
<input type="checkbox"/> *Hypocotyl: anthocyanin colouration	absent	absent
<input type="checkbox"/> *Plant: growth type	determinate	determinate
<input type="checkbox"/> Plant: growth habit	erect	erect
<input type="checkbox"/> *Plant: colour of hairs of main stem	grey	grey
<input type="checkbox"/> *Plant: height	medium	short
<input type="checkbox"/> Leaf: blistering	medium	medium
<input type="checkbox"/> *Leaf: shape of lateral leaflet	lanceolate	lanceolate
<input type="checkbox"/> Leaf: size of lateral leaflet	medium to large	medium
<input type="checkbox"/> Leaf: intensity of green colour	medium	medium
<input type="checkbox"/> *Flower: colour	white	white
<input checked="" type="checkbox"/> Pod: intensity of brown colour	very dark	light

<input type="checkbox"/> Seed: size	medium to large	medium
<input type="checkbox"/> Seed: shape	spherical flattened	spherical flattened
<input type="checkbox"/> *Seed: ground colour of testa	yellow	yellow
<input type="checkbox"/> *Seed: hilum colour	yellow	yellow
<input type="checkbox"/> Seed: colour of hilum funicle	same as testa	same as testa
<input type="checkbox"/> *Plant: time of beginning of flowering	medium	medium
<input checked="" type="checkbox"/> *Plant: time of maturity	medium	medium to late

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Gwydir'	'Fraser'
<input type="checkbox"/> Plant: response to halosulfuron herbicide	susceptible	susceptible

Statistical Table

Organ/Plant Part: Context	'Gwydir'	'Fraser'
<input type="checkbox"/> Plant: days to flowering (day)		
Mean	41.30	41.30
Std. Deviation	0.76	0.76
Lsd/sig	2.44	ns
<input checked="" type="checkbox"/> Plant: days to maturity (day)		
Mean	105.00	121.00
Std. Deviation	1.41	1.07
Lsd/sig	8.0	P≤0.01
<input checked="" type="checkbox"/> Plant: height (cm)		
Mean	76.00	60.00
Std. Deviation	1.20	1.10
Lsd/sig	3.0	P≤0.01
<input checked="" type="checkbox"/> Plant: leaf width (mm)		
Mean	75.00	55.00
Std. Deviation	1.68	0.85
Lsd/sig	8	P≤0.01
<input checked="" type="checkbox"/> Plant: leaf length (mm)		
Mean	155.00	172.00
Std. Deviation	1.90	1.41
Lsd/sig	13	P≤0.01
<input checked="" type="checkbox"/> Plant: width/length		
Mean	0.48	0.32
Std. Deviation	0.13	0.03
Lsd/sig	0.03	P≤0.01
<input type="checkbox"/> Plant: main stem node number (count)		
Mean	11.00	11.00
Std. Deviation	0.76	0.76
Lsd/sig	1.26	ns
<input checked="" type="checkbox"/> Plant: total node count (count)		
Mean	15.70	19.70
Std. Deviation	0.64	0.34
Lsd/sig	1.1	P≤0.01

Prior Applications and Sales:

NilDescription: Andrew James, CSIRO, St Lucia, QLD 4067

Details of Application

Application Number	2021/146
Variety Name	'Red Cleo'
Genus Species	<i>Fragaria × ananassa</i>
Common Name	Strawberry
Accepted Date	23 Nov 2021
Applicant	Total Worldfresh Limited, Spalding, Lincolnshire PE11 3YR, Great Britain
Agent	Mountain Blue, South Lismore, NSW 2480
Qualified Person	Damien Clothier

Details of Comparative Trial

Overseas Testing Authority	DGAV-DVS, Portugal
Overseas Data Reference Number	2016/2105
Location	NECE-Escaroupim, Lisbon, Portugal
Descriptor	CPVO-TG/022/3 28/11/2012
Period	Two growing seasons: 2017 and 2018
Conditions	Tests were conducted according to the CPVO Protocol for Distinctness, Uniformity and Stability Tests (CPVO-TP/022/3)
Trial Design	N/A
Measurements	All characteristics according to the CPVO guidelines
RHS Chart - edition	N/A

Origin and Breeding

Controlled pollination: 'Red Cleo' was developed in a planned strawberry breeding program based in Israel in 2009-2010. The parents 'Diamante' and internal line 271 were selected for their traits. Pollen from 271 was transferred to the receptacle of a 'Diamante' flower that had been emasculated. The flower was then covered with a paper bag in a glasshouse environment and allowed to develop into fruit. The subsequent seed produced from the fruit was germinated and grown to maturity. One plant was selected from the resulting progeny in a field trial as the new variety 'Red Cleo' (955) due to its fruit and plant qualities. Breeder: Eva Izsak, Rehovot 42910, Israel.

Choice of Comparators - Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth habit	upright
Petal	colour of upper side	white
Fruit	size	large
Fruit	shape	cylindrical
Fruit	colour	medium red
Plant	type of bearing	fully remontant

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Albion'	
'Driscoll del Rey'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘Red Cleo’	‘Albion’	‘Driscoll del Rey’
<input checked="" type="checkbox"/> *Plant: growth habit	upright	spreading	spreading
<input type="checkbox"/> Plant: density of foliage	dense		sparse
<input checked="" type="checkbox"/> Plant: vigour	strong	medium	medium
<input type="checkbox"/> *Plant: position of inflorescence in relation to foliage	same level		above
<input type="checkbox"/> *Plant: number of stolons	absent or very few		
<input checked="" type="checkbox"/> Stolon: anthocyanin colouration	absent or very weak	strong	
<input type="checkbox"/> Stolon: density of pubescence	sparse		
<input type="checkbox"/> Leaf: size	medium		
<input type="checkbox"/> Leaf: colour of upper side	medium green		dark green
<input type="checkbox"/> *Leaf: blistering	absent or weak		
<input type="checkbox"/> *Leaf: glossiness	medium		
<input type="checkbox"/> Leaf: variegation	absent		
<input type="checkbox"/> *Terminal leaflet: length in relation to width	moderately longer	equal	
<input checked="" type="checkbox"/> *Terminal leaflet: shape of base	acute	obtuse	
<input type="checkbox"/> Terminal leaflet: margin	crenate		
<input type="checkbox"/> Terminal leaflet: shape in cross section	straight		
<input checked="" type="checkbox"/> Petiole: length	medium	short	
<input type="checkbox"/> Petiole: attitude of hairs	horizontal		
<input type="checkbox"/> Stipule: anthocyanin colouration	absent or very weak		
<input type="checkbox"/> Inflorescence: number of flowers	many	medium	
<input type="checkbox"/> Pedicel: attitude of hairs	horizontal		
<input checked="" type="checkbox"/> Flower: diameter	large		medium
<input type="checkbox"/> *Flower: arrangement of petals	overlapping		
<input type="checkbox"/> *Flower: size of calyx in relation to corolla	same size		larger
<input type="checkbox"/> *Flower: stamen	present		
<input type="checkbox"/> Petal: length in relation to width	equal		
<input type="checkbox"/> *Petal: colour of upper side	white		
<input checked="" type="checkbox"/> *Fruit: length in relation to width	much longer		equal
<input type="checkbox"/> *Fruit: size	large		
<input checked="" type="checkbox"/> *Fruit: shape	cylindrical	conical	conical
<input type="checkbox"/> Fruit: difference in shape of terminal and other fruits	slight		none or very slight
<input type="checkbox"/> *Fruit: colour	medium red		

<input type="checkbox"/>	Fruit: evenness of colour	even or very slightly uneven	
<input type="checkbox"/>	Fruit: glossiness	medium	
<input type="checkbox"/>	Fruit: evenness of surface	slightly uneven	
<input type="checkbox"/>	Fruit: width of band without achenes	absent or very narrow	narrow
<input type="checkbox"/>	*Fruit: position of achenes	level with surface	below surface
<input type="checkbox"/>	Fruit: position of calyx attachment	level with fruit	raised
<input type="checkbox"/>	Fruit: attitude of sepals	outwards	
<input type="checkbox"/>	Fruit: diameter of calyx in relation to diameter of fruit	much larger	
<input type="checkbox"/>	Fruit: adherence of calyx	strong	
<input checked="" type="checkbox"/>	Fruit: firmness	very firm	medium
<input type="checkbox"/>	Fruit: colour of flesh (excluding core)	medium red	
<input type="checkbox"/>	Fruit: colour of core	medium red	
<input type="checkbox"/>	Fruit: cavity	large	
<input checked="" type="checkbox"/>	*Time of: beginning of flowering	early	late
<input type="checkbox"/>	Time of: beginning of fruit ripening	early	
<input type="checkbox"/>	*Type of: bearing	fully remontant	

Characteristics Additional to the Descriptor/TG

Organ/Plant Part: Context	'Red Cleo'	'Albion'	'Driscoll del Rey'
<input type="checkbox"/> Bract leaflet: presence	present		
<input type="checkbox"/> Bract leaflet: size	medium		
<input type="checkbox"/> Leaflets: number	four		

Prior Applications and Sales:

Country	Year	Status	Name Applied
European Union	2016	granted	'Red Cleo'
Egypt	2019	granted	'Red Cleo'

First sold in: Egypt, 31 October 2017.

Description: Damien Clothier, South Lismore, NSW 2480.

Details of Application

Application Number	2014/147
Variety Name	'Kirkwood Red'
Genus Species	<i>Citrus sinensis</i>
Common Name	Sweet Orange
Accepted Date	30 Jul 2015
Applicant	Kirkwood Red Trust, Eastern, South Africa
Agent	Variety Access Pty Ltd, Torbanlea, QLD
Qualified Person	Wayne Parr, Torbanlea, QLD

Details of Comparative Trial

Location	Golden Grove Nursery, Torbanlea, Queensland
Descriptor	UPOV/202/1 Oranges
Period	27 Sept 2019
Conditions	Nursery grown in large pots under standard irrigation and fertiliser conditions
Trial Design	Randomized block design
Measurements	as per UPOV guidelines
RHS Chart - edition	6 th

Origin and Breeding

Spontaneous mutation or sport: Branch mutation on a Palmer Navel tree discovered by Johan Potgieter, Kirkwood, E Cape in 1992. Selected material from the branch mutation behind fruit land made six trees which was planted out on this farm 1995. Selected one branch from the six trees in 2000 who showed the red pigment. Material was sent to shoot tip grafting to clean material – 5 September 2000. First clean material was released to the citrus foundation block on 1 October 2003. Material was established and evaluated in various sites in South Africa from 2004 to 2014. Breeder: Kirkwood Red Trust, Eastern, South Africa.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Fruit	internal colour	red flesh
Fruit	maturity	ripening times

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Villa 11'	Late maturing Red Flesh Navel
'Cara Cara'	Red Flesh Navel

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'Kirkwood Red'	'Cara Cara'	'Villa 11'
<input type="checkbox"/> Ploidy:	diploid	diploid	diploid
<input type="checkbox"/> *Tree: growth habit	drooping	drooping	drooping
<input type="checkbox"/> Tree: density of spines	absent or sparse	absent or sparse	absent or sparse
<input type="checkbox"/> Tree: length of spines	very short	very short	very short
<input type="checkbox"/> Leaf blade: length	medium to long	medium to long	medium to long

<input type="checkbox"/> Leaf blade: width	medium to broad	medium to broad	medium to broad
<input type="checkbox"/> Leaf blade: ratio length/width	medium	medium	medium
<input type="checkbox"/> Leaf blade: shape in cross section	intermediate	intermediate	intermediate
<input type="checkbox"/> Leaf blade: twisting	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> Leaf blade: blistering	absent or weak	absent or weak	absent or weak
<input checked="" type="checkbox"/> Leaf blade: green colour	medium to dark	medium to dark	medium
<input type="checkbox"/> Leaf blade: undulation of margin	absent or weak	absent or weak	absent or weak
<input type="checkbox"/> Leaf blade: incisions of margin	absent	absent	absent
<input type="checkbox"/> Leaf blade: shape of apex	acute	acute	acute
<input type="checkbox"/> Leaf blade: emargination at tip	absent	absent	absent
<input checked="" type="checkbox"/> Petiole: length	medium	medium to long	medium
<input type="checkbox"/> Petiole: presence of wings	present	present	present
<input checked="" type="checkbox"/> Petiole: width of wings (varieties with petiole wings present only)	medium to broad	medium	medium
<input type="checkbox"/> *Fruit: length	short to medium	short to medium	short to medium
<input type="checkbox"/> *Fruit: diameter	small to medium	small to medium	small to medium
<input type="checkbox"/> *Fruit: ratio length/diameter	medium	medium	medium
<input type="checkbox"/> *Fruit: position of broadest part	at middle	at middle	at middle
<input type="checkbox"/> Fruit: general shape of proximal part	slightly rounded	slightly rounded	slightly rounded
<input type="checkbox"/> *Fruit: presence of depression at stalk end (varieties without fruit neck only)	present	present	present
<input checked="" type="checkbox"/> Fruit: depth of depression at stalk end (varieties without fruit neck only)	shallow to medium	shallow to medium	shallow
<input type="checkbox"/> Fruit: number of radial grooves at stalk end	intermediate	intermediate	intermediate
<input checked="" type="checkbox"/> Fruit: length of radial grooves at stalk end	short to medium	short to medium	medium
<input type="checkbox"/> Fruit: presence of collar	absent	absent	absent
<input type="checkbox"/> Fruit: general shape of distal part	slightly rounded	slightly rounded	slightly rounded
<input type="checkbox"/> *Fruit: presence of depression at distal end	absent	absent	absent
<input type="checkbox"/> *Fruit: presence of areola	absent	absent	absent
<input type="checkbox"/> Fruit: presence of navel opening	always present	always present	always present
<input checked="" type="checkbox"/> Fruit: diameter of navel opening	small to medium	medium	very small to small

<input type="checkbox"/> Fruit: bulging of navel	intermediate	absent or weak	absent or weak
<input type="checkbox"/> Fruit: presence of radial grooves at distal end	absent	absent	absent
<input type="checkbox"/> Fruit: colour variegation	absent	absent	absent
<input type="checkbox"/> *Fruit surface: predominant colour(s)	medium orange	medium orange	medium orange
<input type="checkbox"/> Fruit surface: roughness	smooth to medium	smooth to medium	smooth to medium
<input type="checkbox"/> Fruit surface: size of oil glands	all more or less the same size	all more or less the same size	all more or less the same size
<input type="checkbox"/> Fruit surface: size of larger oil glands	small to medium	small to medium	small to medium
<input type="checkbox"/> *Fruit rind: thickness	medium	medium	medium
<input checked="" type="checkbox"/> Fruit rind: strength	medium to strong	medium to strong	medium
<input type="checkbox"/> Fruit: colour of albedo	light yellow	light yellow	light yellow
<input type="checkbox"/> Fruit: differently coloured specks in flesh	absent	absent	absent
<input type="checkbox"/> Fruit: bicoloured segments	absent	absent	absent
<input type="checkbox"/> *Fruit: main colour of flesh	orange red	orange red	orange red
<input type="checkbox"/> *Fruit: presence of navel (viewed internally)	always present	always present	always present
<input checked="" type="checkbox"/> Fruit: juiciness	high	medium to high	high
<input checked="" type="checkbox"/> *Time of: maturity of fruit for consumption	medium to late	medium	late

Prior Applications and Sales:

Country	Year	Status	Name Applied
South Africa	2013	Granted	'Kirkwood Red'
USA	2013	Granted	'Kirkwood Red'
Spain	2010	Granted	'Kirkwood Red'

No prior sale.

Description: Wayne Parr, Torbanlea, QLD 4662

Details of Application

Application Number	2021/158
Variety Name	“BROVIAN”
Genus Species	<i>Solanum lycopersicum</i>
Common Name	Tomato
Accepted Date	29 Mar 2022
Applicant	Nunhems B.V., Nunhem 6083 AB, Netherlands
Agent	Spruson & Ferguson, NSW 2000
Qualified Person	John Oates

Details of Comparative Trial

Location	Cross family Farm, Hills Road Bundaberg QLD
Descriptor	UPOV TG/44/11 Rev. 3
Period	January - April 2022
Conditions	Open ground, trellised, planted in white polythene ground cover. Drip irrigated as required.
Trial Design	Randomised block design.
Measurements	As per UPOV Technical guidelines.
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: Parents were developed through controlled crossing, followed by generations of pedigree selection assisted by the use of molecular markers for major traits. Breeder: Nunhems B.V., Haelen, Netherlands.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth type	indeterminate
Peduncle	abscission layer	present
Fruit	green shoulder	absent
Fruit	shape in longitudinal section	elliptic
Fruit	colour at maturity	red
Leaf	type of blade	bipinnate
Fruit	number of locules	two and three

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
“Thor”	
“Kaspian”	
“Rubellite”	

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
“Kaspian”	time of maturity	medium	late	
“Kaspian”	resistance to <i>stemphylium spp</i>	present	absent	
“Rubellite”	resistance to <i>stemophlium spp</i>	present	absent	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	“BROVIAN”	“Thor”
<input type="checkbox"/> *Plant: growth type	indeterminate	indeterminate
<input type="checkbox"/> Stem: anthocyanin colouration	absent or very weak	absent or very weak
<input type="checkbox"/> Stem: length of internode (varieties with plant growth type indeterminate only)	medium	short
<input type="checkbox"/> Plant: height (varieties with plant growth type indeterminate only)	medium	medium
<input type="checkbox"/> *Leaf: attitude	semi-erect	semi-erect
<input type="checkbox"/> Leaf: length	medium	medium
<input type="checkbox"/> Leaf: width	medium	medium
<input type="checkbox"/> *Leaf: type of blade	bipinnate	bipinnate
<input checked="" type="checkbox"/> Leaf: size of leaflets	medium	small
<input type="checkbox"/> Leaf: intensity of green colour	medium to dark	light to medium
<input type="checkbox"/> Leaf: glossiness	medium to strong	weak to medium
<input type="checkbox"/> Leaf: blistering	medium to strong	weak to medium
<input type="checkbox"/> Leaf: attitude of petiole of leaflet in relation to main axis	horizontal	horizontal
<input type="checkbox"/> Inflorescence: type	mainly uniparous	mainly uniparous
<input type="checkbox"/> *Flower: colour	yellow	yellow
<input type="checkbox"/> Flower: pubescence of style	present	present
<input type="checkbox"/> *Peduncle: abscission layer	present	present
<input type="checkbox"/> *Pedicel: length (varieties with peduncle abscission layer present only)	medium	medium
<input type="checkbox"/> *Fruit: green shoulder (before maturity)	absent	absent
<input type="checkbox"/> Fruit: green stripes (before maturity)	absent	
<input type="checkbox"/> *Fruit: size	medium	medium
<input type="checkbox"/> *Fruit: ratio length/diameter	moderately elongated	moderately elongated

<input type="checkbox"/> *Fruit: shape in longitudinal section	elliptic	elliptic
<input type="checkbox"/> *Fruit: ribbing at peduncle end	absent or very weak	absent or very weak
<input type="checkbox"/> Fruit: depression at peduncle end	very weak to weak	very weak to weak
<input checked="" type="checkbox"/> Fruit: size of peduncle scar	medium	small
<input type="checkbox"/> Fruit: size of blossom scar	very small	very small
<input type="checkbox"/> Fruit: shape at blossom end	flat to pointed	flat to pointed
<input type="checkbox"/> Fruit: diameter of core in cross section in relation to total diameter	medium to large	medium to large
<input type="checkbox"/> Fruit: thickness of pericarp	medium to thick	medium to thick
<input type="checkbox"/> *Fruit: number of locules	two and three	two and three
<input type="checkbox"/> *Fruit: colour (at maturity)	red	red
<input type="checkbox"/> *Fruit: colour of flesh (at maturity)	pink	pink
<input type="checkbox"/> Fruit: glossiness of skin	strong	medium
<input type="checkbox"/> Fruit: colour of epidermis	yellow	yellow
<input type="checkbox"/> *Fruit: firmness	firm	firm
<input type="checkbox"/> Fruit: shelf-life	medium to long	medium to long
<input type="checkbox"/> Time of: flowering	early to medium	early to medium
<input type="checkbox"/> *Time of: maturity	medium	medium

Prior Applications and Sales:

Country	Year	Status	Name Applied
Netherlands	2021	applied	'Brovian'

First sale: Nil

Description: John Oates, Merimbula, NSW 2548.

Details of Application

Application Number	2020/266
Variety Name	‘ADVENTURE’
Genus Species	<i>Solanum lycopersicum</i> L.
Common Name	Tomato
Synonym	
Accepted Date	15 Jan 2021
Applicant	Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands
Agent	Spruson & Ferguson, Darling Park, Sydney, NSW 2000
Qualified Person	Ean Blackwell

Details of Comparative Trial

Overseas Testing Authority	Naktuinbouw, The Netherlands
Overseas Data Reference Number	TMT3496
Location	Naktuinbouw, ROELOFARENDSEVEEN, The Netherlands
Descriptor	TP/44/4
Period	2020
Conditions	In accordance with TP/44/4
Trial Design	In accordance with TP/44/4
Measurements	In accordance with TP/44/4
RHS Chart - edition	

Origin and Breeding

Controlled pollination: Male & female lines were crossed and selected until uniform and stable lines were identified to be used as parents. DNA markers were used to confirm fixed characters in these lines, such as resistance to Fusarium. Other characters including fruit size or vigor were selected by the breeder by sight until stable. A cross was made between a line having good germination and high seed yield as female parent and a male line having additional characters to produce a high yielding hybrid. A first selection between potential new hybrids was undertaken at Rijk Zwaan greenhouses, and the potential new commercial hybrids were evaluated by commercial growers under commercial conditions and compared with the standard varieties in the market. The results were compared at grower and trader level to determine the hybrid with the best potential. Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., The Netherlands

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	growth type	indeterminate
Peduncle	abscission layer	present
Fruit	green shoulder (before maturity)	absent
Fruit	green stripes (before maturity)	absent
Fruit	size	medium - large

Fruit	shape in longitudinal section	oblate
Fruit	number of locules	three and four
Fruit	colour at maturity	red
Plant	resistance to <i>Meloidogyne incognita</i>	susceptible
Plant	resistance to <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> , race 0 (ex 1)	present
Plant	resistance to <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> , race 1 (ex 2)	present
Plant	resistance to Tomato Mosaic Virus (ToMV), strain 0	present
Plant	resistance to Tomato Spotted Wilt Virus (TSWV), race 0	absent

Most Similar Varieties of Common Knowledge identified (VCK)

Name **Comments**

‘Maxxis’

Varieties of Common Knowledge identified above and subsequently excluded

Variety	Distinguishing Characteristic	State of Expression in Candidate Variety	State of Expression in Comparator Variety	Comments
‘Merlice’	Peduncle	abscission layer	present	absent
‘Endeavour’	Plant	resistance to <i>Oidium neolycopersici</i> (On) (ex <i>Oidium lycopersicum</i> (Ol))	present	absent

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	‘ADVENTURE’	‘Maxxis’
<input type="checkbox"/> Seedling: anthocyanin colouration of hypocotyl (seed-propagated varieties only)	present	
<input type="checkbox"/> *Plant: growth type	indeterminate	
<input type="checkbox"/> Stem: anthocyanin colouration	very weak to weak	
<input type="checkbox"/> Stem: length of internode (varieties with plant growth type indeterminate only)	medium to long	
<input type="checkbox"/> Plant: height (varieties with plant growth type indeterminate only)	medium to long	
<input type="checkbox"/> *Leaf: attitude	horizontal to semi-drooping	
<input type="checkbox"/> Leaf: length	medium	

<input type="checkbox"/> Leaf: width	medium to broad
<input type="checkbox"/> *Leaf: type of blade	bipinnate
<input type="checkbox"/> Leaf: size of leaflets	medium to large
<input checked="" type="checkbox"/> Leaf: intensity of green colour	medium to dark medium
<input type="checkbox"/> Leaf: glossiness	weak to medium
<input checked="" type="checkbox"/> Leaf: blistering	weak to medium medium to strong
<input type="checkbox"/> Leaf: attitude of petiole of leaflet in relation to main axis	semi-erect
<input type="checkbox"/> Inflorescence: type	mainly uniparous
<input type="checkbox"/> *Flower: colour	yellow
<input type="checkbox"/> Flower: pubescence of style	present
<input type="checkbox"/> *Peduncle: abscission layer	present
<input type="checkbox"/> *Pedicel: length (varieties with peduncle abscission layer present only)	medium
<input type="checkbox"/> *Fruit: green shoulder (before maturity)	absent
<input type="checkbox"/> *Fruit: intensity of green colour excluding shoulder (before maturity)	light
<input type="checkbox"/> Fruit: green stripes (before maturity)	absent
<input type="checkbox"/> *Fruit: size	medium to large
<input type="checkbox"/> *Fruit: shape in longitudinal section	oblate
<input checked="" type="checkbox"/> *Fruit: ribbing at peduncle end	weak very weak to weak
<input type="checkbox"/> Fruit: depression at peduncle end	weak to medium
<input type="checkbox"/> Fruit: size of peduncle scar	medium to large
<input type="checkbox"/> Fruit: size of blossom scar	small
<input type="checkbox"/> Fruit: shape at blossom end	flat
<input type="checkbox"/> Fruit: diameter of core in cross section in relation to total diameter	large
<input type="checkbox"/> Fruit: thickness of pericarp	thick
<input type="checkbox"/> *Fruit: number of locules	three and four
<input type="checkbox"/> *Fruit: colour (at maturity)	red
<input type="checkbox"/> *Fruit: colour of flesh (at maturity)	red
<input type="checkbox"/> Fruit: glossiness of skin	medium
<input type="checkbox"/> *Fruit: firmness	firm to very firm
<input type="checkbox"/> Time of: flowering	medium to late
<input type="checkbox"/> *Time of: maturity	late
<input type="checkbox"/> *Resistance to: <i>Meloidogyne incognita</i> (Mi)	susceptible
<input type="checkbox"/> *Resistance to: <i>Verticillium</i> sp. (Va and Vd)	present
- Race 0	
<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> (Fol) – Race 0 (ex 1)	present

<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> (Fol) – Race 1 (ex 2)	present
<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> (Fol) – Race 2 (ex 3)	absent
<input type="checkbox"/> Resistance to: <i>Fusarium oxysporum</i> f. sp. <i>radicis lycopersici</i> (Forl)	present
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) – Race 0	present
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) – Group A	present
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) – Group B	present
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) – Group C	present
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) – Group D	present
<input type="checkbox"/> Resistance to: <i>Fulvia fulva</i> (Ff) (ex <i>Cladosporium fulvum</i>) – Group E	present
<input type="checkbox"/> Resistance to: Tomato Mosaic Tobamovirus (ToMV) – Strain 0	present
<input type="checkbox"/> Resistance to: Tomato Mosaic Tobamovirus (ToMV) – Strain 1	present
<input type="checkbox"/> Resistance to: Tomato Mosaic Tobamovirus (ToMV) – Strain 2	present
<input type="checkbox"/> Resistance to : Stemphylium	absent
<input type="checkbox"/> Resistance to: Tomato Yellow Leaf Curl Begomovirus (TYLCV)	absent
<input type="checkbox"/> Resistance to: Tomato Spotted Wilt Tospovirus (TSWV) - Race 0	absent
<input type="checkbox"/> Resistance to: <i>Oidium neolycopersici</i> (On) (ex <i>Oidium lycopersicum</i> (Ol))	present

Prior Applications and Sales:

Country	Year	Status	Name Applied
NL	2019	Granted	‘ADVENTURE’
EU	2019	Granted	‘ADVENTURE’
CA	2020	Granted	‘ADVENTURE’
GB	2020	Granted	‘ADVENTURE’
UA	2018	Granted	‘ADVENTURE’

First sold in Australia as 'Adventure' on 4th Nov 2019 and at the Netherlands as 'Adventure' on 31st Aug 2019

Description: Ean Blackwell, Spruson & Ferguson, Darling Park, Sydney, NSW 2000

Details of Application

Application Number	2020/279
Variety Name	'RGT_Cesario'
Genus Species	<i>Triticum aestivum</i>
Common Name	Wheat
Accepted Date	15 Jan 2021
Applicant	RAGT 2n, Aveyron, France
Agent	Seedforce Pty Ltd, Shepparton, Vic 3630
Qualified Person	Leslie Mitchell

Details of Comparative Trial

Overseas Testing Authority	GEVES, France
Overseas Data Reference Number	DEE 4072870
Location	Geves, L' Anjouere, France
Descriptor	CPVO-TP/003/4 Rev.2
Period	15/10/2013 to 15/7 2015
Conditions	as per test report DEE 4072870
Trial Design	as per test report DEE 4072870
Measurements	as per test report DEE 4072870
RHS Chart - edition	n/a

Origin and Breeding

Controlled pollination: 'RGT_Cesario' is the result of a controlled cross between the proprietary breeding line 'S37506' (maternal parent) and the patented variety 'Accroc' (pollen parent) and completed in 2010. Crossing -> F1:F2 seeds -> SSD 2 cycles Glasshouse -> F4 Ear rows -> Observation trial F5 -> Multilocation trials F6/F7 x 2 years. Through subsequent seedbuild up cycles the variety has remained stable and true to type. Breeder: Christophe Michelet, RAGT 2n, Aveyron, France.

Choice of Comparators: Characteristics used for grouping varieties to identify the most similar Variety of Common Knowledge

Organ/Plant Part	Context	State of Expression in Group of Varieties
Plant	seasonal type	winter
Grain	colour	reddish
Plant	height	short
Plant	time to ear emergence	medium

Most Similar Varieties of Common Knowledge identified (VCK)

Name	Comments
'Cezanne'	

Variety Description and Distinctness - Characteristics which distinguish the candidate from one or more of the comparators are marked with X

Organ/Plant Part: Context	'RGT_Cesario'	'Cezanne'
<input type="checkbox"/> Seed: colour		reddish
<input type="checkbox"/> Seed: colouration with phenol		very dark

<input type="checkbox"/>	Coleoptile: anthocyanin colouration	strong	
<input type="checkbox"/>	*Plant: growth habit	intermediate to semi prostrate	
<input checked="" type="checkbox"/>	Plant: frequency of plants with recurved flag leaves	low	medium
<input type="checkbox"/>	Flag leaf: anthocyanin colouration of auricles	strong	
<input type="checkbox"/>	*Time of: ear emergence	early	
<input type="checkbox"/>	*Flag leaf: glaucosity of sheath	strong to very strong	
<input type="checkbox"/>	Flag leaf: glaucosity of blade	strong to very strong	
<input type="checkbox"/>	*Ear: glaucosity	medium	
<input type="checkbox"/>	Culm: glaucosity of neck	strong	
<input type="checkbox"/>	*Lower glume: hairiness on external surface	present	
<input type="checkbox"/>	*Plant: length	short	
<input type="checkbox"/>	*Straw: pith in cross section	medium	
<input type="checkbox"/>	*Ear: density	lax to medium	
<input type="checkbox"/>	Ear: length	long	
<input type="checkbox"/>	*Ear: scurs or awns	scurs present	
<input checked="" type="checkbox"/>	*Ear: length of scurs or awns	medium	short
<input type="checkbox"/>	*Ear: colour	white	
<input type="checkbox"/>	Ear: shape in profile	parallel sided	
<input type="checkbox"/>	Apical rachis segment: area of hairiness on convex surfaces	small to medium	
<input type="checkbox"/>	Lower glume: shoulder width	medium	
<input type="checkbox"/>	Lower glume: shoulder shape	horizontal to slightly elevated	
<input type="checkbox"/>	Lower glume: length of beak	very short to short	
<input type="checkbox"/>	*Lower glume: shape of beak	straight to slightly curved	
<input type="checkbox"/>	Lower glume: area of hairiness on internal surface	very small	
<input type="checkbox"/>	*Seasonal : type	winter type	

Prior Applications and Sales:

Country	Year	Status	Name Applied
EU	2016	Granted	'RGT CESARIO'

First sold in France as 'RGT Cesario' on 15th Dec 2016

Description: Les Mitchell, Shepparton, Victoria

GRANTS:

Agapanthus hybrid

AGAPANTHUS

'AMBIC001' [Ⓢ]

Application No: 2016/349

Applicant: **Charles Andrew de Wet**

Certificate No: 6667 Expiry Date: 1/06/2042.

Agent: **Sprint Horticulture**, Peats Ridge, NSW.

Citrus Clementina

MANDARIN, CLEMENTINE

'OCT488' [Ⓢ]

Application No: 2016/109

Applicant: **AGRIDELMED S.L.**

Certificate No: 6658 Expiry Date: 25/05/2047.

Agent: **Nu Leaf I.P. Pty Ltd**, Gol Gol, NSW.

Cucumis melo

MELON

'Silverball' [Ⓢ] **syn Silverbullet** [Ⓢ]

Application No: 2018/027

Applicant: **Nunhems B.V.**

Certificate No: 6679 Expiry Date: 16/06/2042.

Agent: **Spruson & Ferguson**, Sydney, NSW.

Cucumis sativus

CUCUMBER, GHERKIN

'EQUILIBRATO' [Ⓢ]

Application No: 2018/321

Applicant: **Nunhems B.V.**

Certificate No: 6674 Expiry Date: 8/06/2042.

Agent: **Spruson & Ferguson**, Sydney, NSW.

Cucumis sativus

CUCUMBER, GHERKIN

'Sepire' [Ⓢ]

Application No: 2017/089

Applicant: **Nunhems B.V.**

Certificate No: 6663 Expiry Date: 31/05/2042.

Agent: **Spruson & Ferguson**, Sydney, NSW.

Cucumis sativus

CUCUMBER, GHERKIN

'TANTALOS' [Ⓢ]

Application No: 2018/338

Applicant: **Rijk Zwaan Zaadteelt en Zaadhandel B.V.**

Certificate No: 6654 Expiry Date: 22/04/2042.

Agent: **Rijk Zwaan Australia Pty Ltd**, Daylesford, VIC.

Fragaria xananassa

STRAWBERRY

'Venus-ASBP' Φ

Application No: 2018/049

Applicant: **State of Queensland, Horticulture Innovation Australia Ltd**

Certificate No: 6659 Expiry Date: 24/05/2042.

Hydrangea macrophylla

HYDRANGEA

'H2002' Φ **syn Miss Saori** Φ

Application No: 2016/345

Applicant: **Ryoji Irie**

Certificate No: 6686 Expiry Date: 30/06/2042.

Agent: **Sprint Horticulture Pty Ltd**, Peats Ridge, NSW.

Hydrangea macrophylla

HYDRANGEA

'Perfrie' Φ

Application No: 2015/245

Applicant: **Ryoji Irie**

Certificate No: 6675 Expiry Date: 6/06/2042.

Agent: **Sprint Horticulture**, Erina, NSW.

Hydrangea macrophylla

HYDRANGEA

'Youme H1917' Φ

Application No: 2016/079

Applicant: **Ryoji Irie**

Certificate No: 6676 Expiry Date: 9/06/2042.

Agent: **Sprint Horticulture Pty Ltd**, Peats Ridge, NSW.

Hydrangea paniculata

HYDRANGEA

'Rensun' Φ **syn Sundae Fraise** Φ

Application No: 2014/182

Applicant: **Jean Renault**

Certificate No: 6642 Expiry Date: 4/04/2042.

Agent: **Plants Management Australia Pty. Ltd.**, Dodges Ferry, TAS.

Impatiens hybrid

NEW GUINEA IMPATIENS

'Kironanete' Φ

Application No: 2014/304

Applicant: **Innovaplant Zierpflanzen GmbH & Co KG**

Certificate No: 6646 Expiry Date: 7/04/2042.

Agent: **Haars Nursery Pty Ltd**, Somerville, VIC.

Impatiens hybrid

NEW GUINEA IMPATIENS

'Kirotanze' ^ϕ

Application No: 2014/278

Applicant: **Innovaplant Zierpflanzen GmbH & Co KG**

Certificate No: 6645 Expiry Date: 7/04/2042.

Agent: **Haars Nursery Pty Ltd**, Somerville, VIC.

Liriope muscari

LILYTURF

'Suncap5' ^ϕ

Application No: 2016/143

Applicant: **Sunplant Breeders Pty Ltd**

Certificate No: 6678 Expiry Date: 14/06/2042.

Agent: **John Tilbrook**, Joondalup DC, WA.

Liriope muscari

LILYTURF

'Sunlong5' ^ϕ

Application No: 2017/153

Applicant: **Sunplant Breeders Pty Ltd**

Certificate No: 6681 Expiry Date: 16/06/2042.

Agent: **John Tilbrook**, Joondalup DC, WA.

Malus domestica

APPLE

'BEP001' Φ

Application No: 2015/217

Applicant: **Batlow Fruit Co-operative Limited**

Certificate No: 6683 Expiry Date: 29/06/2047.

Olearia axillaris

OLEARIA

'Beach Ball' Φ

Application No: 2016/156

Applicant: **Orange Valley Nursery**

Certificate No: 6684 Expiry Date: 29/06/2042.

Agent: **Quito Pty Ltd trading as Benara Nurseries**, Carabooda, WA.

Persea americana Mill.

AVOCADO

'SHSR-04' Φ

Application No: 2019/129

Applicant: **Sunshine Horticultural Services Pty Ltd; Horticulture Innovation Australia Ltd;
George Hulme Green**

Certificate No: 6672 Expiry Date: 7/06/2047.

Prunus salicina x armeniaca

INTERSPECIFIC PLUM

'Coparose' ^ϕ

Application No: 2014/272

Applicant: **Zaiger's Inc. Genetics**

Certificate No: 6644 Expiry Date: 4/04/2047.

Agent: **Graham's Factree Pty Ltd**, Gembrook, VIC.

Rosa hybrid

ROSE

'Meidrason' ^ϕ

Application No: 2005/126

Applicant: **Meilland International S.A.**

Certificate No: 6657 Expiry Date: 2/05/2042.

Agent: **Kim Syrus**, MYPONGA, SA.

Scaevola aemula

FANFLOWER

'Kingscawite' ^ϕ

Application No: 2016/162

Applicant: **Botanic Gardens and Parks Authority**

Certificate No: 6685 Expiry Date: 23/06/2042.

Agent: **Quito Pty Ltd trading as Benara Nurseries**, Carabooda, WA.

Solanum lycopersicum

TOMATO

'ADORION' Φ

Application No: 2018/234

Applicant: **Nunhems B.V.**

Certificate No: 6680 Expiry Date: 16/06/2042.

Agent: **Spruson & Ferguson**, Sydney, NSW.

Solanum lycopersicum

TOMATO

'PROVINE' Φ

Application No: 2017/283

Applicant: **Nunhems B.V.**

Certificate No: 6673 Expiry Date: 8/06/2042.

Agent: **Spruson & Ferguson**, Sydney, NSW.

Solanum tuberosum

POTATO

'Amigo-590.02.7' Φ

Application No: 2018/016

Applicant: **SIPRE**

Certificate No: 6677 Expiry Date: 14/06/2042.

Agent: **McCain Foods (Aust) Pty Ltd**, Wendouree, VIC.

Solanum tuberosum

POTATO

'Bellanova'^A syn Almonda^A

Application No: 2016/218

Applicant: **Solana GmbH & Co KG**

Certificate No: 6661 Expiry Date: 27/05/2042.

Agent: **Fairbanks Selected Seed Co Pty Ltd**, Epping, VIC.

Solanum tuberosum

POTATO

'Belmonda'^Φ

Application No: 2016/074

Applicant: **Solana GmbH & Co KG**

Certificate No: 6660 Expiry Date: 26/05/2042.

Agent: **Fairbanks Selected Seed Co Pty Ltd**, Epping, VIC.

Solanum tuberosum

POTATO

'Bute'^Φ

Application No: 2014/251

Applicant: **Caithness Potatoes Holding BV, UK**

Certificate No: 6643 Expiry Date: 4/04/2042.

Agent: **South Australian Seeds Pty Ltd**, Virginia, SA.

Solanum tuberosum

POTATO

'CAMMEO' Φ

Application No: 2017/306

Applicant: **Caithness Potatoes Holding BV**

Certificate No: 6666 Expiry Date: 2/06/2042.

Agent: **South Australian Potato Company Pty Ltd**, Mt Barker, SA.

Solanum tuberosum

POTATO

'Captiva' Φ

Application No: 2014/336

Applicant: **EUROPLANT Pflanzenzucht GmbH**

Certificate No: 6648 Expiry Date: 7/04/2042.

Agent: **Australian Seed Partners Pty Ltd**, Dulwich, SA.

Solanum tuberosum

POTATO

'Cardinia' Φ

Application No: 2014/337

Applicant: **EUROPLANT Pflanzenzucht GmbH**

Certificate No: 6650 Expiry Date: 11/04/2042.

Agent: **Australian Seed Partners Pty Ltd**, Dulwich, SA.

Solanum tuberosum

POTATO

'Cimega' [Ⓢ]

Application No: 2015/074

Applicant: **Danespo A/S**

Certificate No: 6653 Expiry Date: 11/04/2042.

Agent: **Mitolo Group Pty Ltd**, Virginia, SA.

Solanum tuberosum

POTATO

'Colomba' [Ⓢ]

Application No: 2014/143

Applicant: **IPR B.V.**

Certificate No: 6641 Expiry Date: 4/04/2042.

Agent: **Forth Farm Investments Pty Ltd**, Forth, TAS.

Solanum tuberosum

POTATO

'Ivetta' [Ⓢ]

Application No: 2014/335

Applicant: **EUROPLANT Pflanzenzucht GmbH**

Certificate No: 6647 Expiry Date: 7/04/2042.

Agent: **Australian Seed Partners Pty Ltd**, Dulwich, SA.

Solanum tuberosum

POTATO

'Libertie' ^ϕ

Application No: 2016/054

Applicant: **Caithness Potatoes Holding BV**

Certificate No: 6656 Expiry Date: 27/04/2042.

Agent: **South Australian Seeds Pty Ltd**, Virginia, SA.

Solanum tuberosum

POTATO

'Linata' ^ϕ

Application No: 2015/073

Applicant: **Danespo A/S**

Certificate No: 6652 Expiry Date: 11/04/2042.

Agent: **Mitolo Group Pty Ltd**, Virginia, SA.

Solanum tuberosum

POTATO

'Lorimer' ^ϕ

Application No: 2017/083

Applicant: **M. Higgins Ltd**

Certificate No: 6649 Expiry Date: 11/04/2042.

Agent: **Dowling Agritech**, Mt Gambier East, SA.

Solanum tuberosum

POTATO

'Montana' [Ⓢ]

Application No: 2014/338

Applicant: **EUROPLANT Pflanzenzucht GmbH**

Certificate No: 6651 Expiry Date: 11/04/2042.

Agent: **Australian Seed Partners Pty Ltd**, Dulwich, SA.

Solanum tuberosum

POTATO

'PurplePelisse' [Ⓢ] **syn PurpleBliss** [Ⓢ]

Application No: 2015/044

Applicant: **Oregon State University**

Certificate No: 6668 Expiry Date: 2/06/2042.

Agent: **Anchor Organics**, Pyengana, TAS.

Solanum tuberosum

POTATO

'Queen Anne' [Ⓢ]

Application No: 2016/219

Applicant: **Solana GmbH & Co KG**

Certificate No: 6662 Expiry Date: 27/05/2042.

Agent: **Fairbanks Selected Seed Co Pty Ltd**, Epping, VIC.

Solanum tuberosum

POTATO

'Safiyah' ^Φ

Application No: 2017/084

Applicant: **M. Higgins Ltd**

Certificate No: 6665 Expiry Date: 1/06/2042.

Agent: **Dowling Agritech**, Mt Gambier East, SA.

Vitis interspecific hybrid

GRAPE VINE

'IFG Nineteen' ^Φ

Application No: 2016/085

Applicant: **International Fruit Genetics, LLC**

Certificate No: 6682 Expiry Date: 29/06/2047.

Agent: **Darron S. Saltzman**, North Brighton, VIC.

Vitis interspecific hybrid

GRAPE VINE

'IFG Twenty' ^Φ

Application No: 2016/122

Applicant: **International Fruit Genetics, LLC**

Certificate No: 6664 Expiry Date: 1/06/2047.

Agent: **Darron S. Saltzman**, North Brighton, VIC.

Vitis vinifera

GRAPE VINE

'cz1830' ϕ **syn Bubble Globe** ϕ

Application No: 2018/086

Applicant: **Ontario Produce Pty Ltd**

Certificate No: 6655 Expiry Date: 26/04/2047.

x Mangave .

'Lavender Lady' ϕ

Application No: 2019/089

Applicant: **Walters Gardens, Inc.**

Certificate No: 6671 Expiry Date: 6/06/2042.

Agent: **Sprint Horticulture Pty Ltd**, Peats Ridge, NSW.

x Mangave .

'MissiontoMars' ϕ

Application No: 2019/088

Applicant: **Walters Gardens, Inc.**

Certificate No: 6670 Expiry Date: 6/06/2042.

Agent: **Sprint Horticulture Pty Ltd**, Peats Ridge, NSW.

x Mangave .

'Pineapple Express' ϕ

Application No: 2019/001

Applicant: **Walters Gardens, Inc.**

Certificate No: 6669 Expiry Date: 2/06/2042.

Agent: **Sprint Horticulture Pty Ltd**, Peats Ridge, NSW.

Zamioculcas zamiifolia

ZZ PLANT, AROID PALM

'HANSOTI 13' ϕ

Application No: 2017/293

Applicant: **Ashish A. Hansoti**

Certificate No: 6687 Expiry Date: 30/06/2042.

Agent: **Oud's Amazone Trading Pty Ltd**, Federal, NSW.

Potential overcharge of examination fees for Centralised Testing Centre (CTC) trials

Important notice as at 19 July 2022:

Applicants who trialled a variety at an authorised Centralised Testing Centre (CTC) between 1996 and 2022 were entitled to a discounted examination fee regardless of the number of applications being examined simultaneously. This means those who trialled less than five varieties at a CTC **may have been overcharged**.

Please find more detailed information on this issue and steps for requesting a refund at <https://www.ipaustralia.gov.au/plant-breeders-rights/understanding-pbr/pbr-time-and-costs/overcharged-examination-fees>.

Change of Applicant's Name

App. No.	Genus	Species	Variety	Common Name	Changed From	Changed To
2020/029	Lactuca	sativa	Archer	Lettuce	VILMORIN S.A.	Vilmorin-Mikado
2020/127	Beta	vulgaris L. ssp. vulgaris var. conditiva Alef.	Amarena		VILMORIN S.A.	Vilmorin-Mikado
2020/120	Lactuca	sativa	PATROBAS	Lettuce	VILMORIN S.A.	Vilmorin-Mikado
2020/130	Lactuca	sativa	SUPERCUT	Lettuce	VILMORIN S.A.	Vilmorin-Mikado
2020/209	Diplotaxis	tenuifolia	VITESSA	Wild Rocket	VILMORIN S.A.	Vilmorin-Mikado
2021/035	Lactuca	sativa	HOLIDEI	Lettuce	Vilmorin-Mikado S.A.	Vilmorin-Mikado
2021/050	Lactuca	sativa	CALIDO	Lettuce	Vilmorin-Mikado S.A.	Vilmorin-Mikado
2021/109	Lactuca	sativa	MALUA	Lettuce	Vilmorin-Mikado S.A.	Vilmorin-Mikado
2021/108	Lactuca	sativa	FIRECUT	Lettuce	Vilmorin-Mikado S.A.	Vilmorin-Mikado
2021/221	Lactuca	sativa	BAMBERA	Lettuce	Vilmorin-Mikado S.A.	Vilmorin-Mikado
2013/212	Lactuca	sativa	Pursuit	Lettuce	Vilmorin	Vilmorin-Mikado
2014/022	Lactuca	sativa	Capoeira	Lettuce	Vilmorin	Vilmorin-Mikado
2014/240	Lactuca	sativa	Empire Rose	Lettuce	Vilmorin	Vilmorin-Mikado
2014/239	Lactuca	sativa	Green Moon	Lettuce	Vilmorin	Vilmorin-Mikado
2014/196	Lactuca	sativa	QUECHUA	Lettuce	Vilmorin	Vilmorin-Mikado
2015/200	Lactuca	sativa	Jezabeel	Lettuce	Vilmorin	Vilmorin-Mikado
2015/321	Lactuca	sativa	Diskoa	Lettuce	Vilmorin	Vilmorin-Mikado
2016/065	Lactuca	sativa	Uppercut	Lettuce	Vilmorin	Vilmorin-Mikado
2016/285	Lactuca	sativa	FULL MOON	Lettuce	Vilmorin	Vilmorin-Mikado
2016/292	Lactuca	sativa	Caponata	Lettuce	Vilmorin	Vilmorin-Mikado
2016/315	Lactuca	sativa	Altanera	Lettuce	Vilmorin	Vilmorin-Mikado
2017/142	Lactuca	sativa	Intercut	Lettuce	Vilmorin	Vilmorin-Mikado
2017/192	Lactuca	sativa	Yambu	Lettuce	Vilmorin	Vilmorin-Mikado
2018/022	Lactuca	sativa	Dark Knight	Lettuce	Vilmorin	Vilmorin-Mikado
2018/023	Lactuca	sativa	Tawrrific	Lettuce	Vilmorin	Vilmorin-Mikado

Applications Withdrawn

The following varieties are withdrawn under Section 34(2) of the *PBR Act 1994* and are no longer under provisional protection:

App. No.	<i>Genus</i>	<i>Species</i>	Common Name	Variety
2018/292	Lotus	pedunculatus	Lotus	LE 306
2017/246	Lavandula	pedunculata	Spanish Lavender	Frill Pink
2018/221	Solanum	lycopersicum	Tomato	EXTENSION

Applications Refused

The following applications have been rejected under Section 44 of the *Plant Breeder's Rights Act 1994*, and are no longer protected by PBR:

Application No.	Genus	Species	Variety	Synonym	Common Name
2015/132	Acer	palmatum	CHACER01		Cut Leaf Japanese Maple

Assignment of Rights

App. No.	Genus	Species	Variety	Common Name	Changed From	Changed To
2014/033	Russelia	equisitifomis	Red Braid	Coral Plant	Floreta Intellectual Property Pty Ltd as Trustee for the Sundaze Trust	Gana Blue Investments Pty Ltd as trustee for The Botanique Trust
2014/056	Muraya	paniculata	Flomursixs	Orange Jasmine	Floreta Intellectual Property Pty Ltd as Trustee for the Sundaze Trust	Gana Blue Investments Pty Ltd as trustee for The Botanique Trust
2014/055	Muraya	paniculata	Flomursis	Orange Jasmine	Floreta Intellectual Property Pty Ltd as Trustee for the Sundaze Trust	Gana Blue Investments Pty Ltd as trustee for The Botanique Trust
2007/140	Chrysocephalum	apiculatum	FLOCHRDEF	Yellow Buttons	Floreta Intellectual Property Pty Ltd as Trustee for the Sundaze Trust	Gana Blue Investments Pty Ltd as trustee for The Botanique Trust
2013/049	Gazania	rigens	Flogazora	Gazania	Floreta Intellectual Property Pty Ltd as Trustee for the Sundaze Trust	Gana Blue Investments Pty Ltd as trustee for The Botanique Trust

Change/Nomination of Agent

App. No.	Genus	Species	Variety	Changed From	Changed To
2022/015	Lactuca	sativa	GIBBARD	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2020/300	Lactuca	sativa	OUTBEX	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2020/302	Lactuca	sativa	ZAC	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2020/303	Lactuca	sativa	JALONAS	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2020/289	Lactuca	sativa	Rainey	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2020/266	Solanum	lycopersicum L.	ADVENTURE	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2020/304	Lactuca	sativa	VINCAS	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2016/078	Lactuca	sativa	Barlach	Rijk Zwaan Australia Pty. Ltd.	Spruson & Ferguson
2022/033	Vaccinium	hybrid	NS 13-4		United Exports Pty Ltd
2022/034	Vaccinium	hybrid	NS 15-14		United Exports Pty Ltd
2022/035	Vaccinium	hybrid	NS 16-2		United Exports Pty Ltd
2022/036	Vaccinium	hybrid	NS 16-8		United Exports Pty Ltd
2022/037	Vaccinium	hybrid	NS 13-6		United Exports Pty Ltd
2022/038	Vaccinium	hybrid	NS 15-13		United Exports Pty Ltd

2022/040	Vaccinium	hybrid	NS 16-15		United Exports Pty Ltd
2022/041	Vaccinium	hybrid	NS 14-4		United Exports Pty Ltd
2014/115	Lactuca	sativa	EXPONENT	Rijk Zwaan Australia Pty Ltd	Spruson & Ferguson
2015/093	Lactuca	sativa	Verodita	Rijk Zwaan Australia Pty Ltd	Spruson & Ferguson
2014/004	Lactuca	sativa	Gradara	Rijk Zwaan Australia Pty Ltd	Spruson & Ferguson

Denomination Changed

Application No.	<i>Genus</i>	<i>Species</i>	Common Name	Changed From	Changed To
2021/194	Colocasia	hybrid		Pharaohs Mask	Cophama
2021/241	Hordeum	vulgare	Barley	RGT_ORBITER	RGT Orbiter
2021/242	Hordeum	vulgare	Barley	RGT_ASTEROID	RGT Asteroid
2020/106	Syzygium	australe	Lilly Pilly	Screen Master	Bonfire

Synonym Changed/Added

App. No.	Genus	Species	Variety	Common Name	Synonym Changed From	Synonym Changed To
2021/241	Hordeum	vulgare	RGT Orbiter	Barley		RGT-Orbiter
2021/242	Hordeum	vulgare	RGT Asteroid	Barley		RGT-Asteroid
2020/106	Syzygium	australe	Bonfire	Lilly Pilly		Screen Master
2021/212	Triticum	aestivum	LONGREACH ANVIL	Wheat	LPB17-6157	LRPB ANVIL

Grants Surrendered

The following varieties are surrendered under Section 52 of the Plant Breeder's Rights Act 1994 and the breeder's rights protection has ceased:

App. No.	Genus	Species	Variety	Synonym	Common Name
2015/295	Correa	pulchella	YesPlease		Correa
2014/262	Lactuca	sativa	Salmarinas		Lettuce
2013/330	Lactuca	sativa	Codex		Lettuce
2014/034	Russelia	equisetiformis	Orange Braid		Coral Plant
2014/035	Russelia	equisetiformis	Yellow Braid		Coral Plant
2011/286	Lactuca	sativa	Duplex		Lettuce
2013/277	Prunus	dulcis	Tarraco		Almond
2015/147	Lepidosperma	squamatum	LEP08		
2016/272	Daphne	odora	Sweet Amethyst		Winter Daphne
2015/137	Petunia	sp.	Sundapin		Petunia
2014/039	Petunia	hybrida	Keisurfpusos		Petunia
2015/135	Petunia	x hybrida	Sunsurf Deniusa		Petunia
2008/167	Argyranthemum	frutescens	BONMADMERLO		Marguerite Daisy
2008/169	Argyranthemum	frutescens	BONMADWITIM		Marguerite Daisy
2015/138	Petunia	sp.	Sundasiro		Petunia
2015/136	Petunia	sp.	Sundarose		Petunia
2017/319	Bidens	ferulifolia	SUNBIDEVB 2		Bidens
2008/101	Pennisetum	alopecuroides	PAV300		Swamp Foxtail
2015/097	Anigozanthos	hybrida	KP03		Kangaroo Paw

Grants Expired

The following varieties have expired under Section 22(2) of the *PBR Act 1994* and are no longer under PBR protection:

App. No.	Genus	Species	Common Name	Variety
1998/166	Rosa	hybrid	Rose	Hardinkum
1993/001	Juniperus	scopulorum	Juniper	BLUE ARROW
1997/169	Poa	labillardieri	Tussock Grass	Eskdale
1994/160	Prunus	persica var. nucipersica	Nectarine	ARCTIC SHOW
1992/156	Magnolia	hybrid	Magnolia	VULCAN
1999/117	Rosa	hybrid	Rose	Ausled
1999/114	Rosa	hybrid	Rose	Ausmum
2000/299	Avena	sativa	Oats	Taipan
2000/038	Lolium	multiflorum	Italian Ryegrass	Barberia
1999/339	Medicago	polymorpha	Burr Medic	Cavalier
1997/181	Digitaria	didactyla (syn. D.swazila)	Swazi Grass	Aussieblue

Grants Revoked

The following varieties have been revoked under Section 50 of the *Plant Breeder's Rights Act 1994*, and are no longer under PBR protection:

App No.	Genus	Species	Variety	Synonym	Common Name
2015/272	Rubus		DrisBlackFifteen		Blackberry
2015/273	Rubus		DrisBlackTwelve		Blackberry
2015/313	Fragaria	xananassa	DrisStrawFortySix		Strawberry
2016/093	Fragaria	xananassa	DrisStrawThirty		Strawberry
2016/227	Fragaria	xananassa	DrisStrawThirtySeven		Strawberry
2006/072	Fragaria	xananassa	Driscoll El Dorado		Strawberry
2006/074	Fragaria	xananassa	Driscoll Ojai		Strawberry
2006/307	Rubus	hybrid	Cowles		Hybrid Blackberry
2007/155	Rubus	idaeus	Estrella		Raspberry
2008/281	Fragaria	xananassa	DrisStrawThree		Strawberry
2008/317	Fragaria	xananassa	DrisStrawFive		Strawberry
2008/318	Vaccinium	corymbosum	DrisBlueOne		Bluberry
2008/319	Vaccinium	corymbosum	DrisBlueThree		Bluberry
2008/338	Rubus	idaeus	Pacifica		Raspberry
2009/173	Fragaria	xananassa	DrisStrawSix		Strawberry
2009/274	Fragaria	xananassa	DrisStrawEight		Strawberry
2009/295	Fragaria	xananassa	DrisStrawEleven		Strawberry
2009/296	Fragaria	xananassa	DrisStrawThirteen		Strawberry
2010/067	Fragaria	xananassa	DrisStrawTwelve		Strawberry
2010/077	Fragaria	xananassa	DrisStrawFourteen		Strawberry
2011/214	Fragaria	xananassa	DrisStrawTwentyOne		Strawberry
2011/274	Fragaria	xananassa	DrisStrawTwentySix		Strawberry
2012/212	Fragaria	xananassa	DrisStrawThirtyOne		Strawberry
2013/154	Fragaria	xananassa	DrisStrawThirtyEight		Strawberry
2013/180	Fragaria	xananassa	DrisStrawThirtyNine		Strawberry

Corrigenda:

Sweet Orange

Citrus sinensis

Application No. 2015/248

‘VILLA11’

In the “Variety Description and Distinctness” table in the published description (Volume 32, Issue 1) the following characteristics should be read as:

Organ/Plant Part: Context	'VILLA11'	'Cara Cara'	'Kirkwood Red'
<input type="checkbox"/> Petiole: length	medium	medium to long	medium
<input type="checkbox"/> Petiole: width of wings (varieties with petiole wings present only)	medium	medium	medium to broad
<input type="checkbox"/> *Fruit: presence of depression at stalk end (varieties without fruit neck only)	present	present	present



The appendices to *Plant Varieties Journal* (**Vol. 35 Issue 2**) are listed below:

- [Home](#)
- [Appendix 1 - Index of Accredited Consultant 'Qualified Persons'](#)
- [Appendix 2 – Index of Accredited Non-Consultant 'Qualified Persons'](#)
- [Appendix 3- Centralised Testing Centres](#)
- [Appendix 4 – Register of Plant Varieties](#)

APPENDIX 1 - INDEX OF ACCREDITED CONSULTANT 'QUALIFIED PERSONS'

The following link <https://www.ipaustralia.gov.au/tools-resources/qualified-persons-directory> is the directory of consultant QPs

Appendix 2 – Index of Accredited Non-Consultant Qualified Persons

LAST NAME	CONTACT NAME
Ahmad	Maqbool
Ali	Asjad
Ali	Fawad
Ansari	Omid
Austin	Darren
Berryman	Pamela
Bolton	Clair
Box	Amanda
Brown	Emma
Brunt	Charlotte
Buchanan	Peter
Bunker	John
Cameron	Nick
Campbell	David
Cecil	Andrew
Chesher	Wayne
Clayton-Greene	Kevin
Clifton	Hannah
Clingeffer	Peter
Clothier	Damien
Cogan	Noel
Collins	David
Connolly	Karen
Costin	Russell
Coventry	Stewart
Culvenor	Richard
Cutri	Gaethan
De Barro	James
Dewar	Matthew
Dilag	Calixto
Downe	Graeme
Fidgeon	Jesse
Fitzgibbon	John
Flattery-O'Brien	Jacinta
Fleming	Rebecca
Fletcher	Dr Andrew
Gillies	Leanne
Gororo	Nelson
Graetz	Darren
Gunther	Tom
Harmer	Martin
Harrison	Robert

Hobson	Kristy
Hoppo	Suzanne
Jupp	Noel
Kaehne	Ian
Katz	Mark
Kitson	Elizabeth
Kretzschmar	Tobias
Lacey	Kevin
Lee	Jodie
Lee Chang	Kim
Lewis	Hartley
Madsen	Dean
March	Timothy
Materne	Michael
Matthews	Michael
Moisander	Jennifer
Myors	Philip
Neal	Jodi
Newman	Allen
Nichols	Phillip
O'Connor	Daniel
O'Connor	Katie
Pandey	Babu
Peck	David
Pegg	Amelia
Peng	Fei
Pidgeon	Mark
Pike	Elise
Porter	Gavin
Pressler	Craig
Rayner	Kenneth
Real	Daniel
Russell	Dougal
Sayle	Riley
Senior	Michael
Sewell	James
Shunmugam	Arun
Smark	Jordan
Smith	Chris
Smith	Leigh
Snell	Peter
Snelling	Cath
Song	Leonard
Stiller	Warwick
Tabah	David
Tancred	Stephen

Todd	Peter
Turner	Janice
Turpin	Susanna
Ullah	Smi
Watson	David
Wei	Xianming
Wells	Jenny
Williams	Michelle
Winter	Bruce
Wirthensohn	Michelle
Wright	Graeme

APPENDIX 3

CENTRALISED TESTING CENTRES

Under Plant Breeder's Rights Regulations introduced in 1996, establishments may be officially authorised by the PBR office to conduct test growings. An authorised establishment will be known as Centralised Test Centre (CTC).

Usually, the implementation of PBR in Australia relies on a 'breeder testing' system in which the applicant, in conjunction with a nominated Qualified Person (QP), establishes, conducts and reports a comparative trial. More often than not, trials by several breeders are being conducted concurrently at different sites. This makes valid comparisons difficult and often results in costly duplication.

While the current system is and will remain satisfactory, other optional testing methods are available which adds flexibility to the PBR process.

Centralised Testing is one such optional system. It is based upon the authorisation of private or public establishments to test one or more genera of plants. Applicants can choose to submit their varieties for testing by a CTC or continue to do the test themselves. Remember, using a CTC to test your variety is voluntary.

A CTC will establish, conduct and report each trial on behalf of the applicant. CTCs have a high level of experience in the particular genera they are authorised to test, and a successful history of growing trials for PBR assessment. Therefore, CTC trials are expected to be more rigorous and less likely to require re-trials and multiple visits by a PBR examiner. The use of CTCs for multiple candidate varieties in a single comprehensive trial may provide further advantages in terms of economies of scale and commensurate cost savings.

The PBR office has amended its fees so that cost savings can be passed to applicants who choose to test their varieties in a CTC. Accordingly, when one or more candidate varieties are tested, each will qualify for the CTC examination fee of \$920. This is a saving of more than 40% over the normal fee of \$1610.

Establishments wishing to be authorised as a CTC may apply in writing to the PBR office outlining their claims against the selection criteria. Initially, only one CTC will be authorised for each genus. Exemptions to this rule can be claimed due to special circumstances, industry needs and quarantine regulations. Authorisations will be reviewed periodically and may be withdrawn at any time if considered no longer suitable, inactive or the listed Qualified Person(s) are no longer accredited. The onus is on the CTC establishment to contact the PBR Office if their authorisation details change. If authorisation is withdrawn then a new application will be necessary if re-authorisation is required.

Authorisation of CTCs is not aimed solely at large research institutions. Smaller establishments with appropriate facilities and experience can also apply for CTC status. There is no cost for authorisation as a CTC.

REQUESTS FOR AUTHORISATION AS A CENTRALISED TESTING CENTRE

Establishments interested in gaining authorisation as a Centralised Testing Centre should apply in writing addressing each of the Conditions and Selection Criteria outlined below.

Conditions and Selection Criteria

To be authorised as a CTC, the following conditions and criteria will need to be met: **Appropriate facilities**

While in part determined by the genera being tested, all establishments must have facilities that allow the conduct and completion of moderate to large-scale scientific experiments without undue environmental influences. Again, dependent on genera, a range of complementary testing and propagation facilities (e.g. outdoor, glasshouse, shade house, tissue culture stations) is desirable.

Experienced staff

Adequately trained staff, and access to appropriately accredited Qualified Persons, with a history of successful PVR/PBR applications will need to be available for all stages of the trial from planting to the presentation of the trial the relevant UPOV protocols, technical guideline or national descriptor for the genus should be followed. Where necessary the establishment and conduct of the trial can be discussed with the PBR office.

Industry support

Details of requests for authorisation as a CTC will be published as pending in the Plant Varieties Journal for a period of 3 months. If no adverse comments are received after this period it will be assumed that there are no particular concerns in the industry regarding the authorisation. Evidence of industry support can be supplied in support and maybe required if any adverse comments are received.

Long-term storage of genetic material

Applicants nominate where their material is to be maintained prior to grant. However, depending upon the genus, a CTC may be in a position to collect and maintain, at minimal cost, genetic resources of vegetatively propagated species as a source of comparative varieties. Applicants indicating a willingness to act as national genetic resource centre in perpetuity will be favoured.

Contract testing for 3rd Parties

Unless exempted in writing by the PBR office operators of a CTC must be prepared to test varieties submitted by a third party.

Relationship between CTC and 3rd Parties

A formal arrangement between the CTC and any third party including fees for service will need to be prepared and signed before the commencement of the trial. It will include among other things: how the plant material will be delivered (e.g. date, stage of development plant, condition etc); allow the applicant and/or their agent and QP access to the site during normal working hours; and release the use of all trial data to the owners of the varieties included in the trial.

One trial at a time

Unless exempted in writing by the PBR office, all candidates and comparators should be tested in a single trial.

One CTC per genus

Normally only one CTC per state will be authorised to test a genus. Special circumstances may exist (such as environmental factors or quarantine) to allow more than one CTC per genus, though a special case will need to be made to the PBR office.

Authorised Centralised Test Centres (CTCs)

Following publication of requests for accreditation and ensuing public comment, the following organisations/individuals are authorised to act as CTCs.

Name	Location	Approved Genera	Facilities	Name of QP	Date of accreditation	Next review date
Bureau of Sugar Experiment Stations	Cairns, Tull, Ingham, Ayr, Mackay, Bundaberg, Brisbane, QLD	Saccharum	Field, glasshouse, tissue culture, pathology	Ms Clair Bolton	3/06/2020	1/12/2022
Paradise Plants	Kulnura, NSW	Camellia, Lavandula, Osmanthus, Ceratopetalum	Field, glasshouse, shade house, irrigation	J. Robb	31/12/1998	1/12/2022
Prescott Roses	Berwick, VIC	Rosa	Field, controlled environment	C. Prescott	31/12/1998	1/12/2022
Ramm Botanicals	KangyAngy, NSW	Anigozanthos	Tissue culture, environment controlled greenhouse; extensive outdoor and shade house areas	Hannah Clifton	10/02/2012	1/12/2022
Solan Pty Ltd	Waikerie SA	Solanum tuberosum	Tissue culture, plastic covered nursery, refrigerated storage; experience with comparator growing trials	J. Fennell	10/01/2013	1/12/2022
Tahune Fields Nursery	Huon Valley Southern Tasmania	Pome Fruit	Comprehensive equipment	G. Brown	12/03/2015	1/12/2022

			and facilities for large scale propagation, growing, conditioning, storage, marketing and transport			
Agronico Technology Pty Ltd	Leith, TAS	Solanum tuberosum	Access to tissue culture storage and mini tuber production facilities (VICSPA accredited), for storing and multiplying varieties in preparation for testing	Stewart McKay, James Hills	7/04/2016	1/12/2022
G Crumpton & Sons & Co Pty Ltd	Crawford, QLD	Duboisia	Comprehensive growing facilities	D. Loch	13/12/2016	1/12/2022
Driscolls Australia Pty Ltd	Palmwoods, QLD	Fragaria spp., Vaccinium spp., Rubus spp.	Irrigated field trial areas, laboratory facilities, glasshouse	Jennifer Moisander	13/12/2016	1/12/2022
GrapeCo Pty Ltd	South Merbein, VIC	Vitis vinifera (Table Grape only)	Drip irrigation. Cool rooms are being installed	Ms Alison MacGregor	24/03/2022	1/02/2022
Australian Horticultural Services	Wonga Park, VIC	Lavandula	Indoor and outdoor growing areas	M. Lunghusen	19/12/2018	1/12/2022
Haar's Nursery	Somerville, VIC	Erysimum, Impatiens* *Nemesia	Propagation greenhouses; indoor and outdoor growing areas	M. Lunghusen	19/12/2018	1/12/2020
Australian Horticultural Services	5 Lower Homestead Rd Wonga Park, VIC 3115	Lagerstroemia	Outdoor and indoor growing areas	M. Lunghusen	13/08/2021	1/12/2022

Driscolls Australia Pty Ltd	Palmwoods, QLD	Fragaria spp., Vaccinium spp., Rubus spp.	Irrigated field trial areas, laboratory facilities, glasshouse	Jennifer Moisander	13/12/2016	1/12/2022
GrapeCo Pty Ltd	South Merbein, VIC	Vitis vinifera (Table Grape only)	Drip irrigation. Cool rooms are being installed	Ms Alison MacGregor	24/03/2022	1/02/2022
Australian Horticultural Services	Wonga Park, VIC	Lavandula	Indoor and out growing areas	M. Lunghusen	19/12/2018	1/12/2022
Haar's Nursery	Somerville, VIC	Erysimum, Impatiens**, Nemesia	Propagation greenhouses; indoor and outdoor growing areas	M. Lunghusen	19/12/2018	1/12/2020
Australian Horticultural Services	5 Lower Homestead Rd Wonga Park, VIC 3115	Lagerstroemia	Outdoor and indoor growing areas	M. Lunghusen	13/08/2021	1/12/2022

APPENDIX 4

REGISTER OF PLANT VARIETIES

The Register of Plant Varieties contains the legal description of varieties granted Plant Breeder's Rights. These details are freely accessible from the [PBR search website](#). A copy of an entry in the Register may be purchased by contacting pbr@ipaustralia.gov.au.



Australian Government
IP Australia

[Subscribe](#)

Plant Varieties Journal Mailing List

The [Plant Varieties Journal mailing list](#) informs subscribers whenever the new journal is posted on the IP Australia web site.

- [Home](#)