



APPLICATIONS UNDER EXAMINATION

TOMATO

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(*Solanum lycopersicum*)

Proposed denomination: 'Adundas'
Application number: 23-11288
Application date: 2023/04/21
Applicant: Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands
Agent in Canada: Rijk Zwaan Canada Ltd., Leamington, Ontario
Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

Variety used for comparison: 'Carrasco'

Summary: *The plants of 'Adundas' are of medium height while those of 'Carrasco' are medium to tall. The leaf of 'Adundas' has very weak to weak glossiness while that of 'Carrasco' has a weak to medium degree of glossiness.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: indeterminate growth type, medium height, flowers early to mid season, early fruit maturity

STEM: very weak to weak intensity of anthocyanin colouration, short to medium length internode

LEAF: horizontal to semi-drooping attitude, medium to long, medium to broad, bipinnate blade type

LEAF BLADE (UPPER SIDE): medium to dark green, very weak to weak glossiness, weak to medium blistering

LEAFLET: medium sized, horizontal attitude of petiole in relation to main axis of leaf

INFLORESCENCE: equally uniparous and multiparous type

PEDUNCLE: abscission layer present, short to medium length

FLOWER: yellow, pubescence of style present

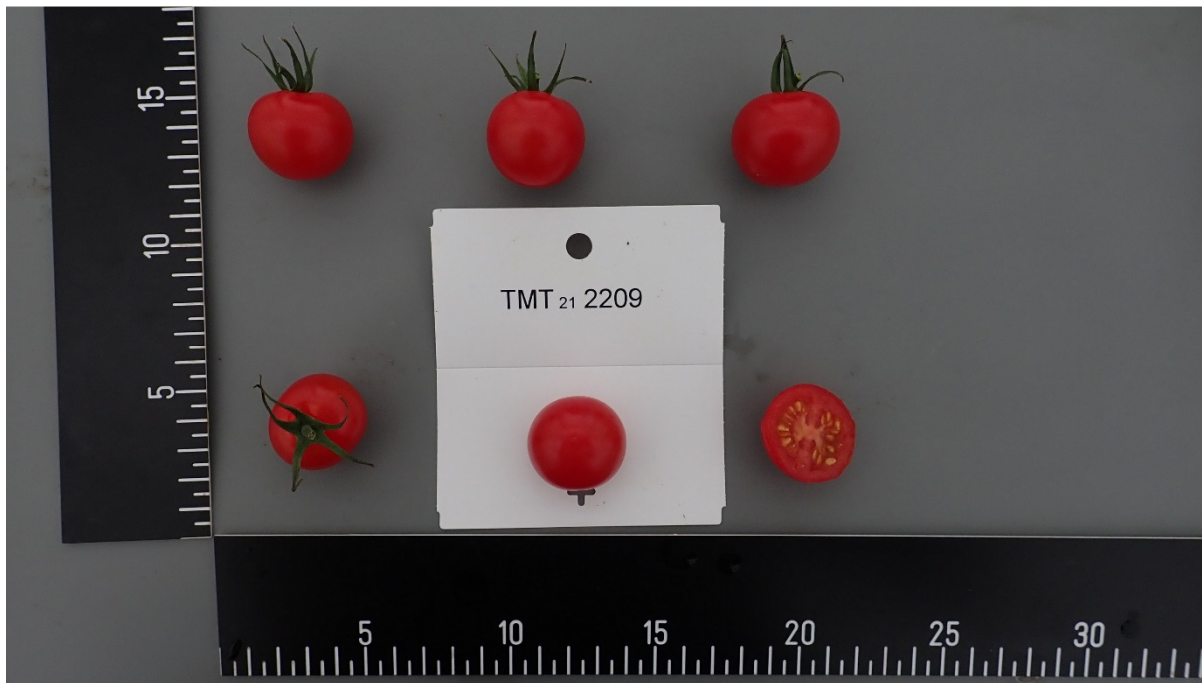
IMMATURE FRUIT: medium extent of medium green shoulder, light green skin (excluding shoulder), no green stripes

MATURE FRUIT: very small, small to medium length to diameter ratio, oblate shape in longitudinal section, very weak to weak ribbing at peduncle end, very weak to weak depression at peduncle end, very small peduncle scar, very small blossom scar, flat at blossom end, small to medium diameter of core (in cross-section) in relation to total diameter when viewed from above, very thin to thin pericarp, two and three locules, red skin, strong glossiness of skin, red flesh, firm

DISEASE REACTIONS: highly resistant to *Meloidogyne incognita*; resistant to *Passalora fulva* (ex *Fulvia fulva*) race 0, group A, B, C, D and E, Tomato Mosaic Virus strains 0, 1 and 2; no resistance to *Verticillium* sp. (Va and Vd) race 0, *Fusarium oxysporum* f. sp. *lycopersici* race 0 (ex1), 1 (ex 2), 2 (ex3), *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Stemphylium* spp., Tomato Yellow Leaf Curl Virus, Tomato Spotted Wilt Virus race 0

Origin and Breeding: 'Adundas' (breeder's reference 72-CH0354 RZ) originated from a cross conducted between two proprietary lines in the spring of 2018 in De Lier, Netherlands. The hybrid tomato variety 'Adundas' was selected in autumn of 2018 for its plant characteristics, compact plant growth habit, adaptability to heated greenhouses, regular cluster length, fruit firmness, fruit weight and ease and lengthened time of transport and storage without cracking.

Tests and Trials: The detailed description of 'Adundas' is based on the UPOV report of Technical Examination, application number TMT3859, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2021 and 2022.



Tomato: 'Adundas'



Tomato: Reference variety 'Carrasco'

Proposed denomination: 'Breonice'
Application number: 22-11114
Application date: 2022/10/21
Applicant: Seminis Vegetable Seeds, Inc., St. Louis, Missouri, United States of America
Agent in Canada: Monsanto Canada ULC, Ottawa, Ontario
Breeder: Seminis Vegetable Seeds, Inc., Wageningen, Netherlands

Variety used for comparison: 'Seronda'

Summary: *The leaflet and fruit of 'Breonice' are large while those of 'Seronda' are medium to large. The intensity of green colouration of the leaf of 'Breonice' is medium while it is dark for that of 'Seronda'. The peduncle scar of the fruit of 'Breonice' is medium to large while that of 'Seronda' is medium sized.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: indeterminate growth type, tall, flowers mid to late season, late fruit maturity

STEM: very weak to weak intensity of anthocyanin colouration, long to very long internode

LEAF: horizontal to semi-drooping attitude, long, broad, bipinnate blade type

LEAF BLADE (UPPER SIDE): medium green, weak to medium glossiness, medium degree of blistering

LEAFLET: large, semi-erect attitude of petiole in relation to main axis of leaf

INFLORESCENCE: mainly uniparous type

PEDUNCLE: no abscission layer

FLOWER: yellow, pubescence of style present

IMMATURE FRUIT: no green shoulder, light to medium green skin, no green stripes

MATURE FRUIT: large, small to medium length to diameter ratio, oblate shape in longitudinal section, weak to medium ribbing at peduncle end, medium depression at peduncle end, medium to large peduncle scar, small to medium sized blossom scar, flat at blossom end, medium diameter of core (in cross-section) in relation to total diameter when viewed from above, medium to thick pericarp, three and four locules, red skin, strong glossiness of skin, red flesh, medium to firm

DISEASE REACTIONS: resistant to *Verticillium* sp. (Va and Vd) race 0, *Fusarium oxysporum* f. sp. *lycopersici* race 0 (ex1), 1 (ex 2), *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Passalora fulva* (ex *Fulvia fulva*) race 0, group A, B, C, D and E, Tomato Mosaic Virus strains 0, 1, 2, *Phytophthora infestans*, *Leveillula taurica*, *Oidium neolycopersici* (On) (ex *Oidium lycopersicum* (OI)); no resistance to *Meloidogyne incognita*, Tomato Spotted Wilt Virus race 0

Origin and Breeding: 'Breonice' (breeder's reference DRTH1025) originated from a hand-pollinated cross conducted between two proprietary Seminis lines, 'FIR-XM19-4520' and 'FIR-XM19-4521', at the Seminis breeding station located in Bergschenhoek, Netherlands in 2017. The resulting hybrid, 'Breonice', was selected in 2018 for its yield, quality and colour.

Tests and Trials: The detailed description of 'Breonice' is based on the UPOV report of Technical Examination, application number TMT3799, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2022.



Tomato: 'Breonice'

Proposed denomination:	'Grandice'
Application number:	22-11003
Application date:	2022/06/23
Applicant:	Seminis Vegetable Seeds, Inc., St. Louis, Missouri, United States of America
Agent in Canada:	Monsanto Canada ULC, Ottawa, Ontario
Breeder:	Seminis Vegetable Seeds, Inc., St. Louis, Missouri, United States of America

Variety used for comparison: 'Marinice'

Summary: *The fruit of 'Grandice' is larger than that of 'Marinice'. The peduncle end of the fruit of 'Grandice' has a medium to strong depression while that of 'Marinice' has a medium depression. The fruit skin of 'Grandice' has strong glossiness while that of 'Marinice' has a medium degree of glossiness.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: indeterminate growth type, medium to tall, flowers mid season, very late fruit maturity

STEM: weak intensity of anthocyanin colouration, long internode

LEAF: semi-drooping attitude, long, broad, bipinnate blade type

LEAF BLADE (UPPER SIDE): medium green, weak glossiness, weak blistering

LEAFLET: medium to large, semi-erect attitude of petiole in relation to main axis of leaf

INFLORESCENCE: mainly uniparous type

PEDUNCLE: no abscission layer

FLOWER: yellow, pubescence of style present

IMMATURE FRUIT: no green shoulder, light green skin, no green stripes

MATURE FRUIT: large, small length to diameter ratio, oblate shape in longitudinal section, weak to medium ribbing at peduncle end, medium to strong depression at peduncle end, medium sized peduncle scar, small blossom scar, flat at blossom end, medium diameter of core (in cross-section) in relation to total diameter when viewed from above, thick pericarp, three and four locules, red skin, strong glossiness of skin, red flesh, firm to very firm

DISEASE REACTIONS: moderately resistant to *Meloidogyne incognita*; resistant to *Verticillium* sp. (Va and Vd) race 0, *Fusarium oxysporum* f. sp. *lycopersici* race 0 (ex1), 1 (ex 2), *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Passalora fulva* (ex *Fulvia fulva*) race 0, group A, B, C, D and E, Tomato Mosaic Virus strains 0, 1, 2, *Oidium neolyopersici* (On) (ex *Oidium lycopersicum* (OI)) and Tomato Torrado Virus; no resistance to Tomato Spotted Wilt Virus race 0

Origin and Breeding: ‘Grandice’ (breeder’s reference DRTH1027) originated from a hand-pollinated cross conducted between two proprietary Seminis lines, ‘FIR-XM17-4463’ and ‘FIR-XM15-4367’, at the Seminis breeding station located in Bergschenhoek, Netherlands in 2018. The resulting hybrid, ‘Grandice’, was selected in 2019 for its yield, quality, uniformity, colour and flavour.

Tests and Trials: The detailed description of ‘Grandice’ is based on the UPOV report of Technical Examination, application number TMT3824, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2022.



Tomato: ‘Grandice’

Proposed denomination: ‘Iseo’
Application number: 22-11115
Application date: 2022/10/21
Applicant: Seminis Vegetable Seeds, Inc., St. Louis, Missouri, United States of America
Agent in Canada: Monsanto Canada ULC, Ottawa, Ontario
Breeder: Seminis Vegetable Seeds, Inc., Wageningen, Netherlands

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: indeterminate growth type, tall, flowers mid to late season, late to very late fruit maturity

STEM: weak intensity of anthocyanin colouration, long internode

LEAF: semi-drooping attitude, medium to long, medium to broad, bipinnate blade type

LEAF BLADE (UPPER SIDE): medium to dark green, weak glossiness, weak blistering

LEAFLET: small to medium sized, horizontal attitude of petiole in relation to main axis of leaf

INFLORESCENCE: mainly uniparous type

PEDUNCLE: no abscission layer

FLOWER: yellow, pubescence of style present

IMMATURE FRUIT: no green shoulder, light to medium green skin, no green stripes

MATURE FRUIT: medium sized, large length to diameter ratio, obovate shape in longitudinal section, very weak to weak ribbing at peduncle end, very weak to weak depression at peduncle end, small to medium peduncle scar, very small to small blossom scar, flat to pointed at blossom end, small to medium diameter of core (in cross-section) in relation to total diameter when viewed from above, medium thickness of pericarp, two and three locules, red skin, medium glossiness of skin, red flesh, firm to very firm

DISEASE REACTIONS: resistant to *Verticillium* sp. (Va and Vd) race 0, *Fusarium oxysporum* f. sp. *lycopersici* race 0 (ex1), 1 (ex 2), *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Passalora fulva* (ex *Fulvia fulva*) race 0, group A, B, C, D and E, Tomato Mosaic Virus strains 0, 1, 2, *Oidium neolyopersici* (On) (ex *Oidium lycopersicum* (OI)), Tomato torrado virus; no resistance to *Meloidogyne incognita*, Tomato Spotted Wilt Virus race 0

Origin and Breeding: ‘Iseo’ (breeder’s reference DRTJ4056) originated from a hand-pollinated cross conducted between two proprietary Seminis lines, ‘FIS-XM17-4473’ and ‘FIR-XM17-4474’, at the Seminis breeding station located in Bergschenhoek, Netherlands in 2016. The resulting hybrid, ‘Iseo’, was selected in 2017 for its yield, quality and truss retention.

Tests and Trials: The detailed description of ‘Iseo’ is based on the UPOV report of Technical Examination, application number TMT3800, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2022.



Tomato: ‘Iseo’