



APPLICATIONS UNDER EXAMINATION

TOMATO

TOMATO (*Solanum lycopersicum*)

Proposed denomination: 'Adventure'
Application number: 20-10269
Application date: 2020/06/19
Applicant: Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands
Agent in Canada: Rijk Zwaan Export B.V., Leamington, Ontario
Breeder: Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

Variety used for comparison: 'Maxxis'

Summary: *The green colour on the leaf of 'Adventure' is of medium to dark intensity while it is of medium intensity for that of 'Maxxis'. The upper side of the leaf of 'Adventure' has weak to medium blistering while that of 'Maxxis' has medium to strong blistering. At the peduncle end, the fruit of 'Adventure' has weak ribbing while that of 'Maxxis' has very weak to weak ribbing.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

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

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

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

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

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

INFLORESCENCE: mainly uniparous type

PEDUNCLE: abscission layer present, medium length

FLOWER: yellow, pubescence of style present

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

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

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

Origin and Breeding: 'Adventure' (breeder's reference 72-761 RZ) originated from a cross conducted between two proprietary lines in the late summer of 2014 in the Netherlands. The hybrid beef tomato variety was selected in 2014 for its plant characteristics, fruit weight, regular clusters and disease resistance in greenhouse cultivation.

Tests and Trials: The detailed description of 'Adventure' is based on the UPOV report of Technical Examination, application number TMT3496, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2020.



Tomato: 'Adventure'



Tomato: Reference variety 'Maxxis'

Proposed denomination:	'Anamaria'
Application number:	20-10322
Application date:	2020/07/21
Applicant:	Rijk Zwaan Zaahteelt en Zaadhandel B.V., De Lier, Netherlands
Agent in Canada:	Rijk Zwaan Export B.V., Leamington, Ontario
Breeder:	Rijk Zwaan Zaahteelt en Zaadhandel B.V., De Lier, Netherlands

Variety used for comparison: 'Solarino'

Summary: *The leaf of 'Anamaria' has a horizontal to semi-drooping attitude while the leaf of 'Solarino' has a semi-drooping attitude. The fruit of 'Anamaria' is smaller with darker red skin than the fruit of 'Solarino'. In longitudinal section, the fruit shape of 'Anamaria' is elliptic while that of 'Solarino' is obovate. At the blossom end, the fruit shape of 'Anamaria' is flat while that of 'Solarino' is flat to pointed.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: indeterminate growth type, tall, flowers early season, very early fruit maturity

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

LEAF: horizontal to semi-drooping attitude, medium length and width, bipinnate blade type

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

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

INFLORESCENCE: mainly multiparous type

PEDUNCLE: abscission layer present, short to medium length

FLOWER: yellow, pubescence of style present

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

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

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

Origin and Breeding: ‘Anamaria’ (breeder’s reference 72-009 RZ) originated from a cross conducted between two proprietary lines in the late summer of 2014 in the Netherlands. The hybrid plum tomato variety was selected in 2017 for its plant characteristics, fruit quality and shape, yield and disease resistance in high tech greenhouse cultivation.

Tests and Trials: The detailed description of ‘Anamaria’ is based on the UPOV report of Technical Examination, application number TMT3418, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2019 and 2020.



Tomato: ‘Anamaria’



Tomato: Reference variety 'Solarino'

Proposed denomination: 'Santiana'
Application number: 20-10385
Application date: 2020/11/19
Applicant: Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands
Agent in Canada: Rijk Zwaan Export B.V., Leamington, Ontario

Variety used for comparison: 'Provine'

Summary: *The leaf of 'Santiana' has a horizontal to semi-drooping attitude while the leaf of 'Provine' has a horizontal attitude. At the peduncle end, the fruit of 'Santiana' has weak to medium ribbing while that of 'Provine' has weak ribbing. The fruit of 'Santiana' has lighter red skin than the fruit of 'Provine'.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

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

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

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

LEAF BLADE (UPPER SIDE): medium to dark green, weak glossiness, weak to medium degree of 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 (excluding shoulder), no green stripes

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

DISEASE REACTIONS: no resistance to *Meloidogyne incognita*, *Fusarium oxysporum* f. sp. *lycopersici* race 2 (ex3), Tomato Yellow Leaf Curl Virus and Tomato Spotted Wilt Virus race 0; resistance to *Verticillium* sp. (Va and Vd) race 0,

Fusarium oxysporum f. sp. *lycopersici* race 0 (ex1) and race 1 (ex 2), Tomato Mosaic Virus strains 0, 1 and 2, *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Fulvia fulva* (ex *Cladosporium fulvum*) race 0, group A, B, C, D and E and *Oidium neolyopersici* (ex *Oidium lycopersicum*)

Origin and Breeding: ‘Santiana’ (breeder’s reference 72-763 RZ) originated from a cross conducted between two proprietary lines in the autumn of 2016 in the Netherlands. The hybrid large cluster tomato variety was selected in 2017 for its plant characteristics for production in heated glass greenhouses, fruit quality and fruit size.

Tests and Trials: The detailed description of ‘Santiana’ is based on the UPOV report of Technical Examination, application number TMT3540, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2020.



Tomato: ‘Santiana’



Tomato: Reference variety ‘Provine’