



APPLICATIONS UNDER EXAMINATION

TOMATO

TOMATO (*Solanum lycopersicum*)

Proposed denomination: 'Azovian'
Application number: 22-10844
Application date: 2022/03/01
Applicant: Nunhems B.V., Nunhem, Netherlands
Agent in Canada: Aventum IP Law LLP, Ottawa, Ontario
Breeder: Franco Vecchio, Nunhems B.V., S. Agata Bolognese, Italy

Variety used for comparison: 'Granadero'

Summary: *The plants of 'Azovian' are taller than those of 'Granadero'. The leaflets of 'Azovian' are larger than those of 'Granadero'. At maturity, the fruit of 'Azovian' are larger than those of 'Granadero'. The fruit of 'Azovian' matures mid to late season while the fruit of 'Granadero' matures late season.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

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

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

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

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

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

INFLORESCENCE: mainly uniparous type

PEDUNCLE: abscission layer present, medium to long

FLOWER: yellow, pubescence of style present

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

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

DISEASE REACTIONS: highly resistant to *Meloidogyne incognita*; resistant 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. *lycopersici* race 2 (ex3), Tomato Mosaic Virus strains 0, 1 and 2, *Stemphylium* spp., Tomato Yellow Leaf Curl Virus and Tomato Spotted Wilt Virus race 0; no resistance to *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Fulvia fulva* (ex *Cladosporium fulvum*) race 0, group A, B, C, D and E, *Phytophthora infestans*, *Pseudomonas syringae* pv., *Leveillula taurica* or Tomato torrado virus

Origin and Breeding: 'Azovian' (breeder's reference NUN 03998 TOF) originated from a controlled cross conducted between two proprietary lines in 2016 in Italy. 'Azovian' was selected in 2016 for its red fruit colour, firm fruit, taste and disease resistance to yellow leaf curl and spotted wilt virus and nematodes and first produced in 2017.

Tests and Trials: The detailed description of 'Azovian' is based on the UPOV report of Technical Examination, application number TMT3524, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2020.



Tomato: 'Azovian'



Tomato: Reference variety 'Granadero'

TOMATO
(*Solanum lycopersicum* x *S. habrochaites*)

Proposed denomination: 'Equifort'
Application number: 21-10453
Application date: 2021/03/31
Applicant: Seminis Vegetable Seeds, Inc., St. Louis, Missouri, United States of America
Agent in Canada: Bayer CropScience Inc., Ottawa, Ontario
Breeder: Seminis Vegetable Seeds, Inc., St. Louis, Missouri, United States of America

Variety used for comparison: 'Optifort'

Summary: *The internode of the stem of 'Equifort' is of medium length while that of 'Optifort' is medium to long. The fruit of 'Equifort' is very small to small while the fruit of 'Optifort' is small.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

PLANT: medium to tall, flowers mid to late season, no autonecrosis of older leaves

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

LEAF: long, broad

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

LEAFLET: medium to large

PEDICEL: medium length

IMMATURE FRUIT: medium to large extent of dark green shoulder, strong conspicuousness of meridian stripes

MATURE FRUIT: very small to small, circular in longitudinal section, only two locules, yellowish skin

DISEASE REACTIONS: highly resistant to *Meloidogyne incognita*; resistant 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*) group A, B, C, D and E, Tomato Mosaic Virus strains 0, 1, 2 and *Pyrenochaeta lycopersici*; no resistance to *Fusarium oxysporum* f. sp. *lycopersici* race 2 (ex3)

Origin and Breeding: 'Equifort' (breeder's reference DRTX0018) originated from a hand pollinated cross made between two proprietary Seminis breeding lines, 'TRS-XI15-0287GMS' and 'FIR-180-SCHAT', in 2013 at a Seminis breeding station located in Bergschenhoek, Netherlands. The resulting hybrid tomato rootstock variety 'Equifort' was selected in 2015 for its plant vigour and balance, fruit weight and stable yield over the whole growing season.

Tests and Trials: The detailed description of 'Equifort' is based on the UPOV report of Technical Examination, for National Listing application number TMR62, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trials were conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2019 and 2020. The National Listing report for 'Equifort' was used to support the PBR application number 2018/2517 in the Community Plant Variety Office.



Tomato: 'Equifort'



Tomato: 'Equifort'