



APPLICATIONS UNDER EXAMINATION

TOMATO

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

Proposed denomination: 'Espartano'
Application number: 20-10073
Application date: 2019/06/26 (priority claimed)
Applicant: Enza Zaden Beheer B.V., Enkhuizen, Netherlands
Agent in Canada: Smart & Biggar LP, Ottawa, Ontario
Breeder: Martijn van Stee, Enza Zaden Beheer B.V., Enkhuizen, Netherlands

Variety used for comparison: 'Enholder'

Summary: *The internode of the stem of 'Espartano' is of medium length while that of 'Enholder' is medium to long. The upper side of the leaf of 'Espartano' is dark green while that of 'Enholder' is medium green. The fruit of 'Espartano' is smaller than the fruit of 'Enholder'. The plants of 'Espartano' begin flowering mid-season while those of 'Enholder' begin flowering late in the season.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

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

STEM: strong intensity of anthocyanin colouration of upper third, medium length internode

LEAF: long, broad

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

LEAFLET: large

PEDICEL: medium length

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

MATURE FRUIT: medium sized, circular in longitudinal section, only two locules, orangish to slightly 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), race 1 (ex 2) and race 2 (ex3), *Fusarium oxysporum* f. sp. *radicis lycopersici*, *Fulvia fulva* (ex *Cladosporium fulvum*) race 0, groups A, B, C, D and E, Tomato Mosaic Virus strains 0, 1, 2, *Pyrenochaeta lycopersici* and Tomato Spotted Wilt Virus race 0

Origin and Breeding: 'Espartano' (breeder's reference E16R.40846) originated from a controlled cross made between the fixed elite inbred line, female parent 'E16R.40846-F' and a purified Genebank accession, male *S. habrochaites* parent 'E16R.40846-M', in 2014 at the Enza Zaden Research and Development Centre in Enhuizen, Netherlands. In 2015, the resulting variety was included in hybrid screening trials and produced in several locations worldwide to determine fruit characteristics. In 2016 and 2017, this variety was trialed in Holland, Spain, Canada and Mexico. The resulting hybrid tomato rootstock variety 'Espartano' was selected in 2017 for its plant vigour, stable fruit weight, yield and its resistance to many soil borne diseases. This tomato rootstock variety was first introduced into trials in 2018 and given the name 'Espartano'.

Tests and Trials: The detailed description of 'Espartano' is based on the UPOV report of Technical Examination for the National Listing application number TMR64, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trials were conducted by the Naktuinbouw in Roelofarendsveen, Netherlands in 2020 and 2021. The National Listing report for 'Espartano' was used to support the PBR application number 2019/1582 in the Community Plant Variety Office.



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