



APPLICATIONS UNDER EXAMINATION

TOMATO

TOMATO (*Solanum lycopersicum*)

Proposed denomination: 'Gustafano'
Application number: 18-9585
Application date: 2018/07/23
Applicant: Enza Zaden Beheer B.V., Enkhuizen, Netherlands
Agent in Canada: Fetherstonhaugh & Co., Ottawa, Ontario
Breeder: Martijn van Stee, Enza Zaden Beheer B.V., Enkhuizen, Netherlands

Variety used for comparison: 'McDreamy'

Summary: *The plants of 'Gustafano' mature very early to early in the season whereas the plants of 'McDreamy' mature very early in the season. The leaflet of 'Gustafano' is large while it is small to medium sized for 'McDreamy'. The fruit of 'Gustafano' is very small to small, but larger than the fruit of 'McDreamy', which is also very small to small.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

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

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

LEAF: semi-drooping attitude, long, broad, bipinnate division of blade

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

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

INFLORESCENCE: mainly uniparous type

PEDUNCLE: abscission layer present, medium to long

FLORET: yellow, pubescence of style present

IMMATURE FRUIT: small to medium extent of medium to dark green shoulder, very light to light green skin excluding shoulder, no green stripes

MATURE FRUIT: very small to small, large length/diameter ratio, obovate shape in longitudinal section, very weak to weak ribbing at peduncle end, very weak to weak depression at peduncle end, small peduncle scar, very small to small blossom scar, intended to flat at blossom end, small mid-point 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 colour, strong glossiness of skin, red flesh, medium to firm

DISEASE REACTIONS: susceptible to *Meloidogyne incognita*; no resistance to *Verticillium* sp. (Va and Vd) race 0, *Fusarium oxysporum* f. sp. *lycopersici* race 2 (ex 3), *Fusarium oxysporum* f. sp. *radicis lycopersici*, Tomato Spotted Wilt Virus race 0 or *Oidium neolyopersici* (On) (ex *Oidium lycopersicum*(OI)); resistance to *Fusarium oxysporum* f. sp. *lycopersici* race 0 (ex1) and race 1 (ex 2), *Fulvia fulva* (Ff) (ex *Cladosporium fulvum*) race 0 and groups A, B, C, D and E, Tomato Mosaic Virus strains 0, 1 and 2 and *Stemphylium* spp. present

Origin and Breeding: 'Gustafano' originated from a controlled cross conducted in the summer of 2013 at the Enza Zaden Research and Development Station in Enkhuizen, Netherlands. The cross was made between two unnamed proprietary seedlings. In 2015, 'Gustafano' was trialed in the Netherlands and Canada. Selection was based on uniform recognizable fruit, taste, yield and resistance to Ff:A-E and silvering (Si).

Tests and Trials: The detailed description of 'Gustafano' is based on the UPOV report of Technical Examination, application number 2015/1981, purchased from Naktuinbouw, Roelofarendsveen, Netherlands. The trial was conducted by Naktuinbouw, Roelofarendsveen, Netherlands, from 2016 to 2017.



Tomato: 'Gustafano'



Tomato: Reference variety 'McDreamy'



Tomato: 'Gustafano'

Proposed denomination:	'Kivu'
Application number:	18-9616
Application date:	2018/09/20
Applicant:	Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands
Agent in Canada:	Rijk Zwaan Export B.V., Leamington, Ontario
Breeder:	Astrid Schenkeveld, Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

Variety used for comparison: 'Foronti'

Summary: *The leaf of 'Kivu' has a semi-drooping attitude, but less drooping than that of 'Foronti', which is also semi-drooping. The leaflet of 'Kivu' is medium to large, but smaller than the leaflet of 'Foronti', which is also medium to large. The upper side of the leaf blade of 'Kivu' is medium green, but lighter green than the leaf blade of 'Foronti', which is also medium green.*

Description:

SEEDLING: anthocyanin colouration of hypocotyl present

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

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

LEAF: semi-drooping attitude, medium length, medium to broad, bipinnate division of blade

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

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

INFLORESCENCE: mainly uniparous type

PEDUNCLE: abscission layer present, short to medium length

FLORET: yellow, pubescence of style present

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

MATURE FRUIT: very large, small length/diameter ratio, oblate shape in longitudinal section, medium degree of ribbing at peduncle end, strong depression at peduncle end, large to very large peduncle scar, large blossom scar, flat at blossom end, very large mid-point of core (in cross-section) in relation to total diameter when viewed from above, thick pericarp, more than six locules, red skin colour, medium glossiness of skin, red flesh, firm to very firm

DISEASE REACTIONS: susceptible to *Meloidogyne incognita*; no resistance to *Fusarium oxysporum* f. sp. *lycopersici* race 2 (ex 3) 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* (Ff) (ex *Cladosporium fulvum*) race 0 and groups A, B, C, D and E, Tomato Mosaic Virus strains 0, 1 and 2 and *Oidium neolyopersici* (On) (ex *Oidium lycopersicum*(OI)) present

Origin and Breeding: ‘Kivu’ originated from a cross conducted in De Lier, Netherlands in July 2013. From the resulting progeny, a hybrid was selected in the Netherlands in August 2014 based on its plant growth habit, uniform and stable fruit shape, uniformly large fruit size over the season and low sensitivity to fruit drop. This new variety was named ‘Kivu’.

Tests and Trials: The detailed description of ‘Kivu’ is based on the UPOV report of Technical Examination, application number TMT3097, purchased from Naktuinbouw, Roelofarendsveen, Netherlands. The trial was conducted by Naktuinbouw, Roelofarendsveen, Netherlands, from 2017.



Tomato: ‘Kivu’



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