

Technical questionnaire

Solanum lycopersicum L. x *Solanum habrochaites* S. Knapp & D.M. Spooner

Tomato rootstocks

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Mandatory fields or sections are marked with an asterisk (*)

04 . Information on the breeding scheme and propagation of the variety

04.01. Type of material *

- hybrid
- cross-pollinated variety
- self-pollinated variety
- parent line

04.01.01. Parental line use *

In many cases there is a link in morphological expression of characteristics between the parent line and its hybrids. Therefore, it is recommended to provide information about the identity of hybrid varieties where the parental line is used. This makes the organisation of the technical examination more efficient and lowers the risk of an additional year at the costs of the applicant. This information will be dealt with confidentially and only share with the examination office in charge of the technical examination.

Please indicate for the production of which hybrid variety(ies) the parental line is used

*

04.02. Method of propagation of the variety *

- seed propagated
- vegetatively propagated

04.03. Other information on genetic origin and breeding method

Please specify

05 . Characteristics

(the number in brackets refers to the corresponding characteristic in the UPOV Technical Guidelines, please mark the state of expression which best corresponds).

(2) 05.00.01. Plant: height *

- 1 - very short

- 2 - very short to short
- 3 - short Radar
- 4 - short to medium
- 5 - medium Maxifort
- 6 - medium to tall
- 7 - tall Beaufort
- 8 - tall to very tall
- 9 - very tall

(8) 05.00.02. Leaf: intensity of green colour *

- 1 - very light
- 2 - very light to light
- 3 - light
- 4 - light to medium
- 5 - medium
- 6 - medium to dark
- 7 - dark Maxifort
- 8 - dark to very dark
- 9 - very dark

(11) (G) 05.01. Fruit: green shoulder *

- 1 - absent
- 9 - present Maxifort

(14) 05.01.01. Fruit: conspicuousness of meridian stripes *

- 1 - very weak He-Wolf
- 2 - weak Popeye
- 3 - medium Body
- 4 - strong Vigormax
- 5 - very strong

(16) 05.01.02. Fruit: size *



1 - not developed or very small

RT303 - Please indicate size in grams

2 - very small to small

Please indicate size in grams

3 - small

Body, Optifort - Please indicate size in grams

4 - small to medium

Please indicate size in grams

5 - medium

Emperador - Please indicate size in grams

6 - medium to large

Please indicate size in grams

7 - large

Titron - Please indicate size in grams

8 - large to very large

Please indicate size in grams

9 - very large

Please indicate size in grams

(17) (G) 05.02. Fruit: shape in longitudinal section *



- 1 - broad oblate He-Wolf
- 2 - narrow oblate Gladiator
- 3 - circular Maxifort
- 4 - obovate

(18) 05.03. Fruit: number of locules

- 1 - only two Maxifort
- 2 - two and three

(19) (G) 05.04. Fruit: colour at maturity *

- 1 - green Big Force
- 2 - yellowish Vigormax
- 3 - orangish Titron
- 4 - reddish Brigeor

(21) (G) 05.04.01. Autonecrosis *

- 1 - absent Maxifort
- 9 - present Body

(22) (G) 05.05. Resistance to *Meloidogyne incognita* (Mi) *

- 1 - susceptible Bruce
- 2 - moderately resistant
- 3 - highly resistant Emperador

(23) (G) 05.06. Resistance to *Verticillium* sp. (Va and Vd) - Race 0 *

- 1 - absent RTS 119
- 9 - present Bruce, Emperador, King Kong

(24) 05.07. Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) *

(24.1) (G) 05.08. Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) - Race 0EU/1US *

- 1 - absent RTS 119
- 9 - present Emperador

(24.2) (G) 05.09. Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) - Race 1EU/2US *

- 1 - absent RTS 119
- 9 - present Emperador



(24.3) (G) 05.10. Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) - Race 2EU/3US *

- 1 - absent Emperor
- 9 - present Colosus

(25) 05.11. Resistance to *Fusarium oxysporum* f. sp. *radicis-lycopersici* (Forl) *

- 1 - absent Kemerit
- 9 - present Emperor

(27.1) 05.12. Resistance to *Tomato mosaic virus* (ToMV) - Strain 0 *

- absent
- present

06 . Similar varieties and differences from these varieties**06.1. Are there any similar variety(ies) known? ***

- 1 - yes
- 2 - no

06.2. Similar varieties and differences from these varieties: *

Denomination of similar variety	Characteristic in which the similar variety is different	State of expression of similar variety	State of expression of candidate variety

07 . Additional information which may help to distinguish the variety**07.01. In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? ***

- Yes, specify

- No

07.02. Are there any special conditions for growing the variety or conducting the examination? *

- Yes, specify

- No



07.03. Other information ***07.03.01. Resistance to pests and diseases ***

The examination offices test the resistances based on the resistance test protocols listed in the CPVO-TP in force. In case the applicant does assess the resistance based on a different protocol than the one mentioned in the CPVO-TP, please be aware that this could lead to discrepancies between your declaration and the results obtained by the examination office. This may also have important consequences on the conduct of the DUS testing as well as trigger additional tests and fees. In addition, for some resistances an alternative DNA marker test exists. As the phenotype is always leading, the declaration in this Technical Questionnaire should not be based on such DNA marker test only.

(26) 07.03.01.01. Indeterminate varieties only: Resistance to *Passalora fulva* (Pf) (ex *Fulvia fulva* (Ff))

(26.2) 07.03.01.01.02. Group A * absent present not tested

(26.3) 07.03.01.01.03. Group B * absent present not tested

(26.4) 07.03.01.01.04. Group C * absent present not tested

(26.5) 07.03.01.01.05. Group D * absent present not tested

(26.6) 07.03.01.01.06. Group E * absent present not tested

(27) 07.03.01.02. Resistance to *Tomato mosaic virus* (ToMV)

(27.2) 07.03.01.02.01. Strain 1 * absent present not tested

(27.3) 07.03.01.02.02. Strain 2 * absent present not tested

(28) 07.03.01.03. Resistance to *Pyrenochaeta lycopersici* (PI) *

- absent
 present



- not tested

(29) 07.03.01.04. Resistance to *Stemphylium* spp. (Ss) *

- absent
- present
- not tested

(30) 07.03.01.05. Resistance to *Tomato yellow leaf curl virus* (TYLCV) *

- absent
- present
- not tested

(31) 07.03.01.06. Resistance to *Tomato spotted wilt virus* (TSWV) *

- absent
- present
- not tested

(32) 07.03.01.07. Resistance to *Oidium neolycopersici* (On) *

- absent
- present
- not tested

07.03.01.08. Other resistances *

- Yes, specify

- No

07.03.02. Other information *

- Yes, specify

- No

07.04. Photo

It is highly recommended to provide pictures. Otherwise, the organisation of the technical examination will be rendered less efficient, with the risk of an additional year of technical examination at the costs of the applicant.



Documents to be attached

08 . GMO-information requested

08.a. The variety represents a genetically modified organism (GMO) within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001 which requires authorization for release in the environment:

*

- 1 - yes
- 2 - no

08.b. If yes, has such authorization been obtained? *

- 1 - yes
- 2 - no

08.c. If yes, please attach a copy of such an authorization *

Documents to be attached

