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Technical questionnaire

tomato rootstocks

CPVO/TQ-294/1-Rev.5

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

01 . Botanical taxon: name of the genus, species or sub-species to which the variety belongs:

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

Solanum habrochaites S. Knapp & D.M. Spooner

Other species (please specify)

02 . Application code:

For office use only

03 . Breeder's reference:

Breeder's Ref.

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

04 . 01 . Type of material *

(this question could be confidential)

hybrid

cross-pollinated variety

self-pollinated variety

parent line

04 . 02 . Method of propagation of the variety *

(this question could be confidential)

seed propagated

vegetatively propagated

04 . 03 . Other information on genetic origin and breeding method

(this question could be confidential)

Please specify

05 . Characteristics of the variety to be indicated

(the number in brackets refers to the corresponding characteristic in the CPVO Technical Protocol; please mark the state of expression which best corresponds)

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.

05 . 00.01 . Plant: height (2) *

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

05 . 00.02 . Leaf: intensity of green colour (8) *

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

05 . 01 . Fruit: green shoulder (11) (G) *

1 - absent

9 - present

Maxifort

05 . 01.01 . Fruit: conspicuousness of meridian stripes (14) *

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

05 . 01.02 . Fruit: size (16) *

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

05 . 02 . Fruit: shape in longitudinal section (17) (G) *

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

05 . 03 . Fruit: number of locules (18)

1 - only two	Maxifort
2 - two and three	

05 . 04 . Fruit: colour at maturity (19) (G) *

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

05 . 04.01 . Autonecrosis (21) (G) *

1 - absent	Maxifort
9 - present	Body

05 . 05 . Resistance to *Meloidogyne incognita* (Mi) (22) (G) *

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

05 . 06 . Resistance to *Verticillium* sp. (Va and Vd) - Race 0 (23) (G) *

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

05 . 07 . Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) (24) ***05 . 08 . Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) - Race 0EU/1US (24.1) (G) ***

1 - absent	RTS 119
9 - present	Emperador

05 . 09 . Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) - Race 1EU/2US (24.2) (G) *

1 - absent	RTS 119
9 - present	Emperador

05 . 10 . Resistance to *Fusarium oxysporum* f. sp. *lycopersici* (Fol) - Race 2EU/3US (24.3) (G) *

1 - absent	Emperador
9 - present	Colosus

05 . 11 . Resistance to *Fusarium oxysporum* f. sp. *radicis-lycopersici* (Forl) (25) *

1 - absent	Kemerit
9 - present	Emperador

05 . 12 . Resistance to *Tomato mosaic virus* (ToMV) - Strain 0 (26.1) *

absent
present
not tested

06 . Similar varieties and differences from these varieties

Please note that information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing.

06 . 01 . Are there any similar varieties known? *

- Yes
- No

06 . 02 . Similar varieties and differences from these varieties: *

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your 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.

07 . 03.01.01 . Resistance to *Passalora fulva* (Pf) (ex *Fulvia fulva* (Ff)) (26)

07 . 03.01.01.02 . Group A (26.2) * absent present not tested

07 . 03.01.01.03 . Group B (26.3) * absent present not tested

07 . 03.01.01.04 . Group C (26.4) * absent present not tested

07 . 03.01.01.05 . Group D (26.5) * absent present not tested

07 . 03.01.01.06 . Group E (26.6) * absent present not tested

07 . 03.01.02 . Resistance to *Tomato mosaic virus* (ToMV) (27)

07 . 03.01.02.01 . Strain 1 (27.2) * absent present not tested

07 . 03.01.02.02 . Strain 2 (27.3) * absent present not tested

07 . 03.01.03 . Resistance to *Pyrenochaeta lycopersici* (PI) (28) *

absent

present

not tested

07 . 03.01.04 . Resistance to *Stemphylium* spp. (Ss) (29) *

absent
present
not tested

07 . 03.01.05 . Resistance to *Tomato yellow leaf curl virus* (TYLCV) (30) *

absent
present
not tested

07 . 03.01.06 . Resistance to *Tomato spotted wilt virus* (TSWV) (31) *

absent
present
not tested

07 . 03.01.07 . Resistance to *Oidium neolycopersici* (On) (32) *

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.

08 . GMO-information

08 . 01 . GMO-information required *

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

Yes

If yes, please attach in point 08.02 a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

No

08 . 02 . In case of GMO, joint attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

09 . Information on plant material to be examined

The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. Consequently the plant material to be examined should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

09 . 01 . Micro-organisms (e.g. virus, bacteria, phytoplasma) *

Yes, specify

No

09 . 02 . Chemical treatment (e.g. growth retardant or pesticide) *

Yes, specify

No

09 . 03 . Tissue culture *

Yes, specify

No

09 . 04 . Other factors *

Yes, specify

No

DECLARATIONS *

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Place

Date

Name

Signature