

Technical questionnaire

Tomato rootstocks

Version 16

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 . 01.01 . Parental line use *

(this question could be confidential)

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 *

(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

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

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 (27.1) *

| |
|---------|
| 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.

07 . 03.01.01 . Indeterminate varieties only: 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 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 *

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