## Raadvoorplantenrassen

Technical questionnaire

## Tomato

Version 15
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 lycopersicum L. $\times$ Solanum pimpinellifolium L.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)hybridcross-pollinated varietyself-pollinated varietyparent line
04.02. Method of propagation of the variety *
(this question could be confidential)seed propagatedvegetatively propagated
04 . 03 . Other information on genetic origin and breeding method
(this question could be confidential)

Please specify $\square$
$\square$

## 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).
05.01. Plant: growth type (2) (G)*
○ 1 -determinate
Campbell 1327, Prisca
○ 2 - indeterminate
Marmande VR, Saint-Pierre, San Marzano 2
05.01.01. Only varieties with plant growth type indeterminate: Plant: height (6)*

1-very short
Cherry Belle
O 2 - very short to short
3-short
Carson, Despina4 - short to medium
○-medium
Brooklyn, Buffalo, Vision
○ 6 -medium to long
7-long
Classy, Clarence, Climberly, Massada
8 - long to very long
9 - very long
Day Dream, Minired
05. 02. Leaf: type of blade (10) (G)*
1-pinnate
Mikado, Pilot, Red Jacket
○ 2 -bipinnate
Lukullus, Saint-Pierre
05. 02.01. Leaf: intensity of green colour (12)*

○ 1 - very light
○ 2 - very light to light
○ - light
Macero II, Poncette, Rossol

- 4 - light to medium

5 -medium
Lucy
○ 6 - medium to dark
7-dark
Allround, Daniela, Lorena, Red Robin8 - dark to very dark
9 - very dark
05 . 03 . Peduncle: abscission layer (19) (G)*
1-absent
Aledo, Bandera, Count, Lerica

- 9 -present
Montfavet H 63.5, Roma

05 . 04 . Fruit: green shoulder (before maturity) (21) (G)*
1-absent
Felicia, Rio Grande, Trust9 - present
05. 04.01 . Fruit: green stripes (before maturity) (25) (G)*

1-absent Daniela

9 - present
Green Zebra, Tigerella
$\square$
05. 05. Fruit: size (26) (G)*
1 - very small
Please indicate size in grams2 - very small to small3-small4 - small to medium5 - medium6 - medium to large7 - large8 - large to very large9 - very large


Please indicate size in grams

Please indicate size in grams


Please indicate size in grams
$\square$
Please indicate size in grams


Please indicate size in grams


Please indicate size in grams

Please indicate size in grams
$\square$
05.06. Fruit: shape in longitudinal section (28) (G)*

| 1 - flattened | Campbell 28, Marmande VR |
| :--- | :--- |
| 2 - oblate | Montfavet H 63.4, , Montfavet H 63.5 |
| 3 - circular | Cerise, Moneymaker |
| 4 - oblong | - cylindrical |
| 6 - elliptic | Early Mech, Peto Gro |
| 7 - cordate | Hypeel 244, Macero II, San Marzano 2 |
| 8 - ovate | Alcaria, Castone |
| 9 - obovate | Valenciano |
| 10 - pyriform | Dualrow, Soto |
| 11 - obcordate | Duquesta, Estelle Rimone, Rio Grande |

05.06.01 . Fruit: ribbing at peduncle end (29) *1 - absent or very weak
Calimero, Cerise
2-very weak to weak
3-weak
Early Mech, Hypeel 244, Melody, Peto Gro, Rio Grande
4-weak to medium
5 -medium
Montfavet H 63.4, Montfavet H 63.5
6-medium to strong
7-strong
Campbell 1327, Carmello, Count8 - strong to very strong
9 - very strong
Costoluto Fiorentino, Ingrid, Marmande VR
05.07. Fruit: number of locules (36) (G)*

○ 1 - only two
2-two or three3 - three or four
Early Mech, Europeel, San Marzano4 - four, five or six
Alphamech, Futuria
5 - more than six
Montfavet H 63.5

05.07 .01 . Do fruits of the variety reach maturity? *YesNo
05. 07.02. LSL genes *1 - absent9 - present

### 05.07.03. If LSL Genes present

○ 1 - NOR gene homozygous
2 - NOR gene heterozygous

- 3 -RIN gene homozygous

4 - RIN gene heterozygous
5 - other gene

## 05. 07.04 . Fruit: gel in locules *

1-absent9 -present
05. 08. Fruit: colour at maturity (37) *

| 1 - cream | Jazon, White Mirabell |
| :--- | :--- |
| 2 - yellow | Goldene Königin, Yellow Pear |
| 3 - orange | Sungold |
| 4 - pink | Aichi First |
| 5 - red | Dianela, Ferline, Montfavet H 63.5 |
| 6 - brown | Ozyrys |
| 7 - green | Green Grape, Green Zebra |

05.08.01 . Fruit: firmness (40) *
© 1 - very soft
Marmande VR
2-very soft to soft

- 3-soft

Trend4-soft to medium5 -medium
Cristina6 - medium to firm7-firm Fernova, Konsul, Tradiro8 - firm to very firm9 - very firm
Dianela, Karat, Lolek
$\square$
05. 08.02. Time of maturity (42) *

1-very early Dolcevita, Sungold, Sweet Baby
○ - very early to early
3-early
Bianca, Rossol, Shiren

- 4 - early to medium

5-medium
Gourmet, UC 82B
6 -medium to late
7 - late
Arletta, Durinta
○ 8 - late to very late
9 - very late
Dianela
05.09. Resistance to Meloidogyne incognita (Mi) (43) (G) *

1-susceptible
Casaque Rouge
2-moderately resistant
Campeon, Tyonic
〇 3 - highly resistant
Anahu x Casaque Rouge
05.10.Resistance to Verticillium sp. (Va and Vd) - Race $\mathbf{0}$ (44) (G)*

○ 1 -absent

- 9 - present

Anabel, Marmande verte
Daniela, Marmande VR
05.11. Resistance to Fusarium oxysporum f. sp. lycopersici (Fol) - Race 0EU/1US (45.1) (G) *
○ 1 -absent
Marmande, Marmande verte, Resal
9 - present
Gourmet, Larissa, Marporum, "Marporum x Marmande verte", Mohawk, Motelle, Riesling
05.12. Resistance to Fusarium oxysporum f. sp. lycopersici (Fol) - Race 1EU/2US (45.2) (G) *

- 1-absent
Cherry Belle, Marmande verte, Marporum, Ranco, Roma
○ 9 -present
Agostino, "Motelle x Marmande verte", Odisea, Tradiro
05.13. Resistance to Tomato mosaic virus (ToMV) - Strain 0 (48.1) (G) *1-absent9 - present
Monalbo, Moneymaker
Mobaci, Mocimor, Momor, Moperou


## 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? *YesNo
$\square$
06. 02. Similar varieties and differences from these varieties:

| Denomination(s) of variety(ies) <br> similar to your candidate variety | Characteristic(s) in which your <br> candidate variety differs from the <br> similar variety(ies) | Describe the expression of the <br> characteristic(s) for the similar <br> variety(ies) | Describe the expression of the <br> characteristic(s) for your candidate <br> variety |
| :--- | :--- | :--- | :--- |
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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
$\bigcirc$ No
07.02. Are there any special conditions for growing the variety or conducting the examination? *
07.02.01 . Type of culture *in the greenhousein the open field
07. 02.02 . Details of type of culture *stakedsemi-stakednon-staked
07. 02.03 . Main use *fresh market or gardenindustrial processing (indicate type)pot plantrootstock
07.02.03.01 . Details of fresh market/industrysingletrussother
07. 02.03.02. Details of industrypeelpasteother
07. 02.04 . Are there any special conditions for growing the variety or conducting the examination? *YesNo
07.03. Other information
07.03.01 . Resistances to pests and diseases (please specify races/strains if possible) *

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 Fusarium oxysporum f. sp. lycopersici (Fol) - Race 2EU/3US (45.3)*absentpresentnot tested
07.03.01.02 . Indeterminate types: Resistance to Fusarium oxysporum f. sp. radicis-lycopersici (Forl) (46)*absentpresent
07. 03.01.03. Resistance to Passalora fulva Race $\mathbf{0}$ (47.1) *absentpresentnot tested
07.03.01.04 . Determinate types: Resistance to Passolora fulva Group A (47.2) *absentpresentnot tested
07. 03.01.04 . Indeterminate types: Resistance to Passolora fulva Group A (47.2) *absentpresent
07.03.01.05 . Determinate types: Resistance to Passolora fulva Group B (47.3) *absentpresentnot tested
07.03.01.05 . Indeterminate types: Resistance to Passolora fulva Group B (47.3)*absentpresent
07. 03.01.06 . Determinate types: Resistance to Passolora fulva Group C (47.4)*absentpresentnot tested
07.03.01.06. Indeterminate types: Resistance to Passolora fulva Group C (47.4)*absentpresent
07.03.01.07 . Determinate types: Resistance to Passolora fulva Group D (47.5) *absentpresentnot tested
07.03.01.07. Indeterminate types: Resistance to Passolora fulva Group D (47.5) *absentpresent
07.03.01.08 . Determinate types: Resistance to Passolora fulva Group E (47.6)*absentpresentnot tested
07.03.01.08 . Indeterminate types: Resistance to Passolora fulva Group E (47.6)*absentpresent
07. 03.01.09 . Resistance to Tomato mosaic virus (ToMV) strain 1 (48.2) *absentpresentnot tested
07. 03.01.10 . Resistance to Tomato mosaic virus (ToMV) strain 2 (48.3) *absentpresentnot tested
07. 03.01.11 . Resistance to Phytophtora infestans (Pi) (49) *absentpresentnot tested
07. 03.01.12 . Resistance to Pyrenochaeta lycopersici (PI) (50)*absentpresentnot tested
07.03.01.13 . Resistance to Stemphylium spp. (Ss) (51) *absentpresentnot tested
07.03.01.14 . Determinate types: Resistance to Pseudomonas syringae pv. tomato (Pst) (52) *absentpresent
07. 03.01.14 . Indeterminate types: Resistance to Pseudomonas syringae pv. tomato (Pst) (52) *absentpresentnot tested
07.03.01.15 . Resistance to Ralstonia salonacearum race 1 (Rs) (53) *absentpresentnot tested
07. 03.01.16 . Resistance to Tomato yellow leaf curl virus (TYLCV) (54) *absentpresentnot tested
07. 03.01.17 . Resistance to Tomato spotted wilt virus (TSWV) - Strain 0 (55) (G) *absentpresent
07. 03.01.18. Resistance to Leveillula taurica (Lt) (56) *absentpresentnot tested
07.03.01.19. Resistance to Oidium neolycopersici (On) (ex Oidium lycopersicum (OI)) (57) *absentpresentnot tested
07. 03.01.20 . Resistance to Tomato torrado virus (ToTV) (58) *absentpresentnot tested
07.03.01.21 . Other resistances

Please specify
07. 03.02 . Other information *Yes, specifyNo
07.04 . Photo

It is highly recommended to provide pictures (especially fruits at maturity). 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.
$\bigcirc \mathrm{Ye}$

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.

## 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

