

Technical questionnaire

sweet pepper, hot pepper, paprika, chili

Version 13

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:

Capsicum annuum L.

Capsicum baccatum L.

Capsicum chinense Jacq.

Capsicum frutescens L.

Capsicum pubescens Ruiz & Pav.

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 *

hybrid

cross-pollinated variety

self-pollinated variety

parental 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 parental 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 only be shared with the examination office in charge of the technical examination.

In accordance with Article 88(3) of Regulation 2100/1994 the Office will treat the information under this section as confidential on request of the applicant.

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

Please specify

04 . 03. . Should the following question on genetic origin and breeding method be treated as confidential? *

Yes

No

04 . 04 . Confidentiality justification *

(this question could be confidential)

Please explain why the information is to be considered as confidential and how its disclosure would harm your commercial interests (included but not limited to business relations, manufacturing secrets, expertise, commercial strategies, intellectual property) under Article 4(2) of Regulation 1049/2001. Since the general rule is transparency, it is in your best interest to provide strong reasons to support your request for confidentiality. If a public access request is received, the Office will evaluate your justifications and decide whether to disclose or not the information.

Please provide detailed explanations *

04 . 05 . Information on the breeding method and the genetic origin of the application

(this question could be confidential)

breeding method

parentage with any other varieties

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 . 01 . Plant: height (3) *

1 - very short

2 - very short to short

3 - short

Bravia

4 - short to medium

5 - medium

HRF

6 - medium to tall

7 - tall

Century

8 - tall to very tall

9 - very tall

Brutus

05 . 02 . Plant: shortened internode (4) (G) *

1 - absent

California wonder, De Cayenne

9 - present

Bucano

05 . 03 . Leaf blade: intensity of anthocyanin coloration of upper side (14) *

1 - absent or very weak

2 - weak

Omiyamurasaki, Purple Rain

3 - medium

Calico

4 - strong

Black Pearl

5 - very strong

Purple Flash, Takiama Purple to Red, TF802

05 . 04 . Leaf blade: variegation (16) *

1 - absent

Omiyamurasaki

9 - present

Calico, Purple Rain

05 . 05 . Flower: anthocyanin coloration of anther (23) (G) *

1 - absent

Bravia

9 - present

Brutus, Lamuyo

05 . 06 . Male sterility (25) *

1 - absent

California wonder

2 - partially present

3 - totally present

Angelito

05 . 07 . Immature fruit: colour (26) (G) *

1 - greenish white	Bravia
2 - greenish yellow	Don, Sweet banana
3 - green	Allrounder, Black Bullet, Cornus, Hitman, Impala, Syrto
4 - purple	Cardinal, Lilo, Loco, Tequila, Tonaya

05 . 08 . Only varieties with Immature fruit: colour: green or purple: Immature fruit: intensity of colour (27) *

1 - very light	
2 - very light to light	
3 - light	Cornus, Loco, Syrto
4 - light to medium	Tequila
5 - medium	Allrounder
6 - medium to dark	Cardinal
7 - dark	Impala, Lilo, Tonaya
8 - dark to very dark	
9 - very dark	Black Bullet, Hitman

05 . 09 . Fruit: length (30) (G) *

1 - very short

Cherry Bomb, PAZ szentesi

Please indicate length in centimeters

2 - very short to short

Please indicate length in centimeters

3 - short

Ophelia, Smolder
Please indicate length in centimeters

4 - short to medium

Please indicate length in centimeters

5 - medium

California wonder
Please indicate length in centimeters

6 - medium to long

Please indicate length in centimeters

7 - long

Bravia, De Cayenne
Please indicate length in centimeters

8 - long to very long

Please indicate length in centimeters

9 - very long

Carboni, Corno di toro rosso, Doux très long des Landes
Please indicate length in centimeters

05 . 10 . Fruit: diameter (31) (G) *

1 - very small	De Cayenne Please indicate diameter in centimeters
2 - very small to small	Please indicate diameter in centimeters
3 - small	Cherry Bomb Please indicate diameter in centimeters
4 - small to medium	Please indicate diameter in centimeters
5 - medium	Doux Italien Please indicate diameter in centimeters
6 - medium to large	Please indicate diameter in centimeters
7 - large	Lamuyo, Maduro Please indicate diameter in centimeters
8 - large to very large	Please indicate diameter in centimeters
9 - very large	Floridor, Ibleor Please indicate diameter in centimeters

05 . 11 . Fruit: ratio length/diameter (32) (G) *

1 - very low	Liebesapfel, PAZ szentesi
2 - very low to low	
3 - low	Bucano
4 - low to medium	
5 - medium	Maduro
6 - medium to high	
7 - high	Lamuyo, Vidi
8 - high to very high	
9 - very high	De Cayenne, Doux très long des Landes

05 . 12 . Fruit: shape in longitudinal section (33) (G) *

1 - oblate	Koral
2 - circular	Capperino
3 - elliptic	
4 - transverse rectangular	Liebesapfel, PAZ szentesi
5 - square	Maranello
6 - rectangular	Raggio
7 - cordiform	Morrón de conserva 3
8 - ovate	Jalapeño
9 - triangular	Bravia, Corno di toro rosso, De Cayenne
10 - trapezoid	Altea

05 . 13 . Fruit: situation of pericarp at basal part (37) *

1 - absent or very weak	Smolder
2 - very weak to weak	
3 - weak	Donat, Kappy
4 - weak to medium	
5 - medium	Banán
6 - medium to strong	
7 - strong	Hawker
8 - strong to very strong	
9 - very strong	Doux italien, Gelber Spiral

05 . 14 . Fruit: situation of pericarp excluding basal part (38) *

1 - absent or weak	Sonar, Yolo Wonder
2 - medium	Rodri
3 - strong	De Cayenne, Doux italien

05 . 15 . Fruit: colour (41) (G) *

1 - yellow	Allrounder
2 - orange	Arancia
3 - red	Lamuyo
4 - brown	Bastan, Chocology
5 - green	Raymond

05 . 16 . Fruit: intensity of colour (42) *

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

05 . 17 . Fruit: depth of stalk cavity (44) *

- | | |
|-----------------------------|----------------|
| 1 - absent or very shallow | Sweet banana |
| 2 - very shallow to shallow | |
| 3 - shallow | Doux italien |
| 4 - shallow to medium | |
| 5 - medium | Lamuyo, Maduro |
| 6 - medium to deep | |
| 7 - deep | Baquero |
| 8 - deep to very deep | |
| 9 - very deep | Dumbo34 |

05 . 18 . Fruit: number of locules (46) *

- | | |
|----------------------------|---------------|
| 1 - predominantly two | De Cayenne |
| 2 - equally two and three | Banán |
| 3 - predominantly three | Century |
| 4 - equally three and four | Lamuyo, Sonar |
| 5 - predominantly four | PAZ szentesi |

05 . 19 . Fruit: capsaicin in placenta (48) (G) *

- | | |
|-------------|---------------------|
| 1 - absent | Sonar, Sweet banana |
| 9 - present | De Cayenne |

05 . 20 . Fruit: seeds (49) *

- | | |
|-------------|----------|
| 1 - absent | Angelito |
| 9 - present | Lamuyo |

05 . 21 . Time of maturity (53) *

1 - very early	Macska sárga, Madison
2 - very early to early	
3 - early	Kosmik
4 - early to medium	
5 - medium	Lamuyo, Sonar
6 - medium to late	
7 - late	Doux d'Espagne
8 - late to very late	
9 - very late	Teseo

05 . 22 . Resistance to Tobamovirus - *Tobacco mosaic virus* - Group 0 (TMV: 0) (54) (G) *

1 - absent	Lamu, Pepita, Piquillo
9 - present	Fehérözön, Ultron, Yolo Wonder

05 . 23 . Resistance to Tobamovirus - *Pepper mild mottle virus* - Group 2 (PMMoV: 1.2) (55) (G) *

1 - absent	Fehérözön, Lamu, Yolo Wonder
9 - present	Achille, Candela, Ferrari, Fudji, Novi 3

05 . 24 . Resistance to Tobamovirus - *Pepper mild mottle virus* - Group 3 (PMMoV: 1.2.3) (56) (G) *

1 - absent	Candela, Ferrari, Oida, Yolo Wonder
9 - present	Ettore, Friendly, Tom4

05 . 25 . Resistance to *Potato Y virus* (PVY) - Pathotype 0 (PVY: 0) (57) (G) *

1 - absent	Ferrari, Murillo, Piquillo, Yolo Wonder
9 - present	Andalus, Goleador, Vidi, Yolo Y

05 . 26 . Resistance to *Potato Y virus* (PVY) - Pathotype 1 (PVY: 1) (58) *

1 - absent	Yolo Wonder, Yolo Y
9 - present	Florida VR2, Ribatejo
not tested	

05 . 27 . Resistance to *Potato Y virus* (PVY) - Pathotype 1.2 (PVY: 1.2) (59) *

1 - absent	Florida VR2, Yolo Wonder, Yolo Y
9 - present	Chouca, Serrano Criollo de Morelos 334
not tested	

05 . 28 . Resistance to *Phytophthora capsici* (Pc) (60) *

1 - absent	Yolo Wonder
9 - present	Christera, Favolor, Phyo 636, Solario
not tested	

05 . 29 . Resistance to *Cucumber mosaic virus* (CMV) (61) *

1 - absent	Yolo Wonder
9 - present	Alby, Ducato, Favolor
not tested	

05 . 30 . Resistance to *Tomato spotted wilt virus* Pathotype 0 (TSWV: 0) (62) (G) *

1 - absent	Yolo Wonder
9 - present	Galileo, Jackal, Jackpot, Piamonte

05 . 31 . Resistance to *Xanthomonas* spp (ex *Xanthomonas campestris* pv. *vesicatoria*) (X spp (ex Xcv)) - Pathotype 1 (63) *

1 - absent	Yolo Wonder
9 - present	Filidor, San Marco
not tested	

05 . 32 . Resistance to *Xanthomonas* spp (ex *Xanthomonas campestris* pv. *vesicatoria*) (X spp (ex Xcv)) - Pathotype 2 (64) *

1 - absent	Yolo Wonder
9 - present	Filidor, San Marco
not tested	

05 . 33 . Resistance to *Xanthomonas* spp (ex *Xanthomonas campestris* pv. *vesicatoria*) (X spp (ex Xcv)) - Pathotype 3 (65) *

1 - absent	Yolo Wonder
9 - present	Filidor, San Marco
not tested	

05 . 34 . Resistance to *Meloidogyne incognita* (Mi) (66) *

1 - absent	Tom4, Yolo Wonder
9 - present	Bastion, Capital, Kation, W4
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 . Main use *

strictly ornamental use

vegetable use

rootstock

07 . 03.01.01 . Vegetable use

fresh market

canning

powder

07 . 03.02 . Type of culture *

protected (greenhouse, tunnel, etc.)

in the open

07 . 03.03 . Other information *

Yes, specify

No

07 . 04 . Photo

It is highly recommended to provide pictures (up to five). 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. Full guidance on the picture quality can be found here

07 . 04.01 . Details of the photo(s)

Place and conditions under which the material shown in the photo was grown (e.g. plants grown in the greenhouse vs. grown in the open field)

Date of the photo(s) (month and year)

07 . 04.02 . Attached photo(s)

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 . 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