



Technical questionnaire

pea

Version 14

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:

Pisum sativum L.

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: anthocyanin coloration (1) (G) *

1 - absent

Avola, Solara

9 - present

Pidgin, Rosakrone

05 . 02 . Stem: fasciation (3) (G) *

1 - absent

Avola, Solara

9 - present

Bikini, Rosakrone

05 . 03 . Stem: length (4) (G) *

1 - very short	Zephir
2 - very short to short	
3 - short	Mini, Nobel
4 - short to medium	
5 - medium	Calibra, Xantos
6 - medium to long	
7 - long	Blauwschokker, Livia
8 - long to very long	
9 - very long	Mammoth Melting Sugar

05 . 04 . Stem: number of nodes up to and including first fertile node (5) (G) *

1 - very few	Kelvil
2 - very few to few	
3 - few	Smart, Zero4
4 - few to medium	
5 - medium	Markana, Susan
6 - medium to many	
7 - many	Cooper
8 - many to very many	
9 - very many	Regina

05 . 05 . Leaf: leaflets (8) (G) *

1 - absent	Hawk, Solara
9 - present	Avola, Rhea

05 . 06 . Stipule: flecking (20) (G) *

1 - absent	Lisa, Tafila
9 - present	Avola, Maro

05 . 07 . Only varieties with stem fasciation absent: Plant: maximum number of flowers per node (25) (G) *

1 - one	Progress N°9, Tyla
3 - two	Banff, Cooper
5 - three	Ultimo, Zodiac
7 - four or more	Amesa, Calibra, Survivor

05 . 08 . Pod: length (37) (G) *

1 - very short	Cepia, Vermio
2 - very short to short	
3 - short	Progrete, Solara
4 - short to medium	
5 - medium	Cooper, Jof
6 - medium to long	
7 - long	Hurst Green Shaft, Protor
8 - long to very long	
9 - very long	Tirabeque

05 . 09 . Pod: parchment (39) (G) *

1 - absent or partial	Sugar Ann
2 - entire	Avola, Solara

05 . 10 . Excluding varieties with pod parchment: entire: Pod: thickened wall (40) (G) *

1 - absent	Nofila, Reuzensuiker
9 - present	Cygnat, Sugar Ann

05 . 11 . Only varieties with pod: thickened wall: absent: Pod: shape of distal part (41) (G) *

1 - pointed	Jof, Oskar
2 - blunt	Avola, Solara

05 . 12 . Pod: curvature (42) (G) *

1 - absent or very weak	Finale, Maro
2 - very weak to weak	
3 - weak	Eagle, Span
4 - weak to medium	
5 - medium	Carlton, Hurst Green Shaft
6 - medium to strong	
7 - strong	Delikata, Jof
8 - strong to very strong	
9 - very strong	Oskar

05 . 13 . Pod: colour (43) (G) *

1 - yellow	
2 - green	Avola, Solara
3 - blue green	Show Perfection
4 - purple	Blauwschokker

05 . 14 . Immature seed: intensity of green colour (47) (G) *

1 - very light	
2 - very light to light	
3 - light	Arabelle, Solara, Ultimo
4 - light to medium	
5 - medium	
6 - medium to dark	
7 - dark	Dark Skin Perfection, Hawaii
8 - dark to very dark	
9 - very dark	

05 . 15 . Seed: type of starch grains (49) (G) *

1 - simple	Adagio, Maro, Solara
2 - compound	Avola, Polar

05 . 16 . Seed: colour of cotyledon (52) (G) *

1 - green	Avola, Solara
2 - yellow	Caractacus, Hardy
3 - orange	

05 . 17 . Only varieties with plant anthocyanin coloration present: Seed: marbling of testa (53) (G)

1 - absent	Rhea, Rif
9 - present	Assas, Pidgin

05 . 18 . Only varieties with plant anthocyanin coloration present: Seed: violet or pink spots on testa (54) (G)

1 - absent	Pidgin, Rif
2 - faint	Assas, Susan
3 - intense	Arvika, Rhea

05 . 19 . Seed: hilum colour (55) (G) *

1 - same colour as testa	Avola, Solara
2 - darker than testa	Nofila, Rif

05 . 20 . Seed: weight (57) (G) *

1 - very low	Ultimo
2 - very low to low	
3 - low	Hawk
4 - low to medium	
5 - medium	Phoenix, Sugar Flash
6 - medium to high	
7 - high	Kennedy, Maro
8 - high to very high	
9 - very high	Bamby, Kabuki

05 . 21 . Resistance to *Fusarium oxysporum* f. sp. *pisi* - Race 1 (58) (G) *

1 - absent	Bartavelle
9 - present	New Era, Nina

05 . 22 . Resistance to *Erysiphe pisi* Syd. (59) (G) *

1 - absent	Cabree
9 - present	Ema, Stratagem (JI2302), Sugar Bon, Vivaldi

05 . 23 . Resistance to *Ascochyta pisi* - Race C (60) *

1 - absent	Crecerelle, Kelvedon Wonder
9 - present	Madonna, Nina, Rondo
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 *

Yes, specify

No

07 . 03.02 . Type *

agricultural

Please precise the season

vegetable

07 . 03.03 . Main use *

fresh market

canning

freezing

dry seed for human consumption

dry protein

forage

other

07 . 03.04 . 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