

Technical questionnaire

pea

CPVO/TQ-007/2-Rev.3

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 *

(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)

05 . 01 . Plant: anthocyanin coloration (1) (G) *

- | | |
|-----------------------------------|-------------------|
| <input type="radio"/> 1 - absent | Avola, Solara |
| <input type="radio"/> 9 - present | Pidgin, Rosakrone |

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

- | | |
|-----------------------------------|-------------------|
| <input type="radio"/> 1 - absent | Avola, Solara |
| <input type="radio"/> 9 - present | Bikini, Rosakrone |

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

- | | |
|---|-----------------------|
| <input type="radio"/> 1 - very short | Zephir |
| <input type="radio"/> 2 - very short to short | |
| <input type="radio"/> 3 - short | Nobel, Mini |
| <input type="radio"/> 4 - short to medium | |
| <input type="radio"/> 5 - medium | Calibra, Xantos |
| <input type="radio"/> 6 - medium to long | |
| <input type="radio"/> 7 - long | Blauwschokker, Livia |
| <input type="radio"/> 8 - long to very long | |
| <input type="radio"/> 9 - very long | Mammoth Melting Sugar |

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

- | | |
|---|----------------|
| <input type="radio"/> 1 - very few | Kelvil |
| <input type="radio"/> 2 - very few to few | |
| <input type="radio"/> 3 - few | Smart, Zero4 |
| <input type="radio"/> 4 - few to medium | |
| <input type="radio"/> 5 - medium | Markana, Susan |
| <input type="radio"/> 6 - medium to many | |
| <input type="radio"/> 7 - many | Cooper |
| <input type="radio"/> 8 - many to very many | |
| <input type="radio"/> 9 - very many | Regina |

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

- | | |
|-----------------------------------|--------------|
| <input type="radio"/> 1 - absent | Hawk, Solara |
| <input type="radio"/> 9 - present | Avola, Rhea |

05 . 06 . Stipule: flecking (19) (G) *

- | | |
|-----------------------------------|--------------|
| <input type="radio"/> 1 - absent | Lisa, Tafila |
| <input type="radio"/> 9 - present | Avola, Maro |



05 . 07 . Only varieties with stem fasciation absent: Plant: maximum number of flowers per node (24) (G) *

- | | |
|--|--------------------------|
| <input type="radio"/> 1 - one | Progress N°9, Tyla |
| <input type="radio"/> 3 - two | Banff, Cooper |
| <input type="radio"/> 5 - three | Ultimo, Zodiac |
| <input type="radio"/> 7 - four or more | Amesa, Calibra, Survivor |

05 . 08 . Pod: length (35) (G) *

- | | |
|---|---------------------------|
| <input type="radio"/> 1 - very short | Cepia, Vermio |
| <input type="radio"/> 2 - very short to short | |
| <input type="radio"/> 3 - short | Progreta, Solara |
| <input type="radio"/> 4 - short to medium | |
| <input type="radio"/> 5 - medium | Cooper, Jof |
| <input type="radio"/> 6 - medium to long | |
| <input type="radio"/> 7 - long | Hurst Green Shaft, Protor |
| <input type="radio"/> 8 - long to very long | |
| <input type="radio"/> 9 - very long | Tirabeque |

05 . 09 . Pod: parchment (37) (G) *

- | | |
|---|---------------|
| <input type="radio"/> 1 - absent or partial | Sugar Ann |
| <input type="radio"/> 2 - entire | Avola, Solara |

05 . 10 . Excluding varieties with pod parchment: entire: Pod: thickened wall (38) (G) *

- | | |
|-----------------------------------|----------------------|
| <input type="radio"/> 1 - absent | Nofila, Reuzensuiker |
| <input type="radio"/> 9 - present | Cygnat, Sugar Ann |

05 . 11 . Only varieties with pod: thickened wall: absent: Pod: shape of distal part (39) (G) *

- | | |
|-----------------------------------|---------------|
| <input type="radio"/> 1 - pointed | Jof, Oskar |
| <input type="radio"/> 2 - blunt | Avola, Solara |

05 . 12 . Pod: curvature (40) (G) *

- | | |
|---|----------------------------|
| <input type="radio"/> 1 - absent or very weak | Finale, Maro |
| <input type="radio"/> 2 - very weak to weak | |
| <input type="radio"/> 3 - weak | Eagle, Span |
| <input type="radio"/> 4 - weak to medium | |
| <input type="radio"/> 5 - medium | Carlton, Hurst Green Shaft |
| <input type="radio"/> 6 - medium to strong | |
| <input type="radio"/> 7 - strong | Delikata, Jof |
| <input type="radio"/> 8 - strong to very strong | |
| <input type="radio"/> 9 - very strong | Oskar |



05 . 13 . Pod: colour (41) (G) *

- | | | |
|--------------------------|----------------|-----------------|
| <input type="checkbox"/> | 1 - yellow | |
| <input type="checkbox"/> | 2 - green | Avola, Solara |
| <input type="checkbox"/> | 3 - blue green | Show Perfection |
| <input type="checkbox"/> | 4 - purple | Blauwschokker |

05 . 14 . Immature seed: intensity of green colour (45) (G) *

- | | | |
|-----------------------|-------------------------|------------------------------|
| <input type="radio"/> | 1 - very light | |
| <input type="radio"/> | 2 - very light to light | |
| <input type="radio"/> | 3 - light | Arabelle, Solara, Ultimo |
| <input type="radio"/> | 4 - light to medium | |
| <input type="radio"/> | 5 - medium | |
| <input type="radio"/> | 6 - medium to dark | |
| <input type="radio"/> | 7 - dark | Dark Skin Perfection, Hawaiï |
| <input type="radio"/> | 8 - dark to very dark | |
| <input type="radio"/> | 9 - very dark | |

05 . 15 . Seed: type of starch grains (47) (G) *

- | | | |
|-----------------------|--------------|----------------------|
| <input type="radio"/> | 1 - simple | Adagio, Maro, Solara |
| <input type="radio"/> | 2 - compound | Avola, Polar |

05 . 16 . Seed: colour of cotyledon (50) (G) *

- | | | |
|--------------------------|------------|-------------------|
| <input type="checkbox"/> | 1 - green | Avola, Solara |
| <input type="checkbox"/> | 2 - yellow | Caractacus, Hardy |
| <input type="checkbox"/> | 3 - orange | |

05 . 17 . Only varieties with plant anthocyanin coloration present: Seed: marbling of testa (51) (G)

- | | | |
|-----------------------|-------------|---------------|
| <input type="radio"/> | 1 - absent | Rhea, Rif |
| <input type="radio"/> | 9 - present | Assas, Pidgin |

05 . 18 . Only varieties with plant anthocyanin coloration present: Seed: violet or pink spots on testa (52) (G)

- | | | |
|-----------------------|-------------|--------------|
| <input type="radio"/> | 1 - absent | Pidgin, Rif |
| <input type="radio"/> | 2 - faint | Assas, Susan |
| <input type="radio"/> | 3 - intense | Arvika, Rhea |

05 . 19 . Seed: hilum colour (53) (G) *

- | | | |
|-----------------------|--------------------------|---------------|
| <input type="radio"/> | 1 - same colour as testa | Avola, Solara |
| <input type="radio"/> | 2 - darker than testa | Nofila, Rif |



05 . 20 . Seed: weight (55) (G) *

- | | | |
|-----------------------|-----------------------|--------------------------------|
| <input type="radio"/> | 1 - very low | Ultimo |
| <input type="radio"/> | 2 - very low to low | |
| <input type="radio"/> | 3 - low | Hawk, Iceberg |
| <input type="radio"/> | 4 - low to medium | |
| <input type="radio"/> | 5 - medium | Mammoth Melting Sugar, Phoenix |
| <input type="radio"/> | 6 - medium to high | |
| <input type="radio"/> | 7 - high | Kennedy, Maro |
| <input type="radio"/> | 8 - high to very high | |
| <input type="radio"/> | 9 - very high | Bamby, Kabuki |

05 . 21 . Resistance to *Fusarium oxysporum* f. sp. *pisi* - Race 1 (56) (G) *

- | | | |
|-----------------------|-------------|------------|
| <input type="radio"/> | 1 - absent | Bartavelle |
| <input type="radio"/> | 9 - present | |

05 . 22 . Resistance to *Erysiphe pisi* Syd. (57) (G) *

- | | | |
|-----------------------|-------------|--------|
| <input type="radio"/> | 1 - absent | Cabree |
| <input type="radio"/> | 9 - present | |

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 . Resistance to pests and diseases ***

Breeder's Ref.

07 . 01.01 . Resistance to *Ascochyta pisi* (leaf and pod spot) Race C (58) *

- absent
 present
 not tested

07 . 01.02 . Resistance to other diseases *

Please specify *

07 . 02 . In addition to the information provided in sections 05 and 06, are there any additional characteristics which may help to distinguish the variety? *

- Yes, specify
 No

07 . 03 . Are there any special conditions for growing the variety or conducting the examination? *

- Yes, specify
 No

07 . 04 . Other information *

07 . 04.01 . Main use *

- fresh market
 canning
 freezing
 dry seed for human consumption
 dry protein
 forage
 other

07 . 04.02 . Other information *

- Yes, specify
 No

07 . 05 . Photo

It is highly recommended to provide a representative colour image of full grown plant(s) of the variety to accompany the Technical Questionnaire.

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
 No

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.

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**10 . Possible place of the technical examination**

In case the CPVO needs to arrange a technical examination for your candidate variety, there might be more than one examination office entrusted by the CPVO to carry it out. In this case, the Office will decide on the place of the technical examination but you might wish to express a preference in respect of an examination office. The list of entrusted examination offices for that species can be found in the S2/S3 in which you will also find further information about submission of plant material and deadlines for numerous species:CPVO (plantvarieties.eu)

10 . 01 . Country where the examination could take place

Country



Breeder's Ref.

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

