

## TECHNICAL QUESTIONNAIRE – PEA

To be completed in connection with an application for plant variety rights

1. Species: Peas (*Pisum sativum* L.)

### 2. Owner of Variety

Full name:

Address:

Breeder's name and address:  
*(If different from owner)*

### 3. Proposed denomination:

Breeder's reference:

### 4. Information on the breeding scheme and propagation of the variety:

a) Breeding scheme: Variety resulting from: *(Please tick appropriate box and give variety name(s) if relevant)*

#### Crossing:

Controlled cross *(please state parent varieties)*

Partially known cross *(please state parent varieties)*

Unknown cross *(please state parent varieties)*

Mutation

Discovery and development

Where:

When:

Other *(please provide details)*

b) Method of propagating the variety:

5. Characteristics of the variety (*Mark the state of expression which best corresponds*)

a) Plant: Anthocyanin colouration

- absent 1  
 present 9

b) Stem: number of nodes up to and including first fertile node

- very few 1  
 few 3  
 medium 5  
 many 7  
 very many 9

c) Foliage: colour

- yellow green 1  
 green 2  
 blue green 3

d) Seed: leaflets

- absent 1  
 present 9

e) Stipule: flecking

- absent 1  
 present 9

f) Time of flowering:

- very early 1  
 early 3  
 medium 5  
 late 7  
 very late 9

g) Non-fasciated varieties only:

Plant: maximum number of flowers per node

- one 1  
 two 3  
 three 5  
 four or more 7

h) Varieties with anthocyanin colouration only:

Flower: colour of wing

- white with pink blush 1  
 pink 2  
 reddish purple 3

i) Flower: shape of base standard

- strongly raised 1  
 moderately raised 3  
 level 5  
 moderately arched 7  
 strongly arched 9

j) Pod: length

- very short 1  
 short 3  
 medium 5  
 long 7  
 very long 9

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k) Pod: width

- |                          |             |   |
|--------------------------|-------------|---|
| <input type="checkbox"/> | very narrow | 1 |
| <input type="checkbox"/> | narrow      | 3 |
| <input type="checkbox"/> | medium      | 5 |
| <input type="checkbox"/> | broad       | 7 |
| <input type="checkbox"/> | very broad  | 9 |

l) Pod: parchment

- |                          |                   |   |
|--------------------------|-------------------|---|
| <input type="checkbox"/> | absent or partial | 1 |
| <input type="checkbox"/> | entire            | 2 |

m) Excludes varieties with pod parchment: entire:

Pod: thickened wall

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

n) Only varieties with pod thickened wall absent:

Pod: shape of distal part

- |                          |         |   |
|--------------------------|---------|---|
| <input type="checkbox"/> | pointed | 1 |
| <input type="checkbox"/> | blunt   | 2 |

o) Pod: colour

- |                          |            |   |
|--------------------------|------------|---|
| <input type="checkbox"/> | yellow     | 1 |
| <input type="checkbox"/> | green      | 2 |
| <input type="checkbox"/> | blue-green | 3 |
| <input type="checkbox"/> | purple     | 4 |

p) Only varieties with pod parchment not complete:

Pod: suture strings

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

q) Pod: number of ovules

- |                          |        |   |
|--------------------------|--------|---|
| <input type="checkbox"/> | few    | 3 |
| <input type="checkbox"/> | medium | 5 |
| <input type="checkbox"/> | many   | 7 |

r) Immature seed: intensity of green colour

- |                          |        |   |
|--------------------------|--------|---|
| <input type="checkbox"/> | light  | 3 |
| <input type="checkbox"/> | medium | 5 |
| <input type="checkbox"/> | dark   | 7 |

s) Seed: type of starch grains

- |                          |          |   |
|--------------------------|----------|---|
| <input type="checkbox"/> | simple   | 1 |
| <input type="checkbox"/> | compound | 2 |

t) Seed: colour of cotyledon

- |                          |        |   |
|--------------------------|--------|---|
| <input type="checkbox"/> | green  | 1 |
| <input type="checkbox"/> | yellow | 2 |
| <input type="checkbox"/> | orange | 3 |

u) Only varieties with plant anthocyanin colouration present:

Seed: marbling of testa

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

v) Only varieties with plant anthocyanin colouration present:

Seed: violet or pink spots on testa

- |                          |         |   |
|--------------------------|---------|---|
| <input type="checkbox"/> | absent  | 1 |
| <input type="checkbox"/> | faint   | 2 |
| <input type="checkbox"/> | intense | 3 |

w) Seed: Hilum colour

- same colour as testa 1
- darker than testa 2

x) Seed: weight

- very low 1
- low 3
- medium 5
- high 7
- very high 9

## 6. Similar varieties and differences from these varieties:

*(Please use the following table and box for comments to provide information on how your candidate variety differs from the variety(ies) which, to the best of your knowledge, is (or are) most similar. This information may help the PVR Office to conduct its examination of distinctness in a more efficient way.)*

Denomination(s) of variety(ies) similar to yours.	Characteristic(s) (e.g. plant height) in which the similar variety differs from yours.	Describe the expression of the characteristic(s) for the similar variety (e.g. short).	Describe the expression of the characteristic(s) for your variety (e.g. tall).
Comments:			

## 7. Additional information which may help in the examination of the variety:

a) In addition to the information provided in Sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

- Yes       No

If yes, please provide details:

b) Are there any special conditions or requirements (media, soils, climate, greenhouse) for growing the variety or conducting the examination?

- Yes       No

If yes, please provide details:

c) Use:

- Fresh market
- Canning
- Freezing
- Dry seed for human consumption
- Dry protein
- Forage
- Other *(please provide details)*

d) Resistance to disease:

Resistance

Susceptible

Not tested

Fusarium Wilt (Race 1) (Common Wilt)

Ascochyta (leaf and pod spot) Race C

Powdery mildew

Resistance to other diseases *(please provide details)*


e) Other information:

f) Imported seed:

Has the seed supplied with the application been imported?

- Yes       No

If yes, please include with this application a copy of the latest MPI Biosecurity Authority Clearance Certificate (BACC).

8. Authorisation for release:

a) Does the variety require prior authorisation for release under legislation concerning the protection of the environment, human and animal health?

- Yes       No

b) Has such authorisation been obtained?

- Yes       No

If the answer to b) is yes, please attach a copy of such an authorisation.