

## TECHNICAL QUESTIONNAIRE – PEA

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

1. Species: Pea (*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:

4.1 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 known parent varieties)*

Unknown cross

Mutation *(please state parent variety)*

Discovery and development *(please state where and when discovered, and how developed)*

Other *(please provide details)*

## 4.2 Method of propagating the variety:

--	--

5. Characteristics of the variety *(Please mark the note which best corresponds)*

## 5.1 Plant: anthocyanin colouration

- absent 1
- present 9

## 5.2 Stem: fasciation

- absent 1
- present 9

## 5.3 Stem: length

- very short 1
- very short to short 2
- short 3
- short to medium 4
- medium 5
- medium to long 6
- long 7
- long to very long 8
- very long 9

## 5.4 Stem: number of nodes up to and including first fertile node

- very few 1
- very few to few 2
- few 3
- few to medium 4
- medium 5
- medium to many 6
- many 7
- many to very many 8
- very many 9

## 5.5 Foliage: colour

- yellow green 1
- green 2
- blue green 3

## 5.8 Time of flowering

- very early 1
- very early to early 2
- early 3
- early to medium 4
- medium 5
- medium to late 6
- late 7
- late to very late 8
- very late 9

## 5.6 Leaf: leaflets

- absent 1
- present 9

## 5.7 Stipule: flecking

- absent 1
- present 9

5.9 *(Only varieties with stem fasciation absent)* Plant: maximum number of flowers per node

- one 1
- one to two 2
- two 3
- two to three 4
- three 5
- three to four 6
- four or more 7

5.10 *(Only varieties with plant anthocyanin colouration present)* Flower: colour of wing

- white with pink blush 1
- pink 2
- reddish purple 3

## 5.11 Flower: shape of base of standard

- |                          |                               |   |
|--------------------------|-------------------------------|---|
| <input type="checkbox"/> | strongly raised               | 1 |
| <input type="checkbox"/> | strongly to moderately raised | 2 |
| <input type="checkbox"/> | moderately raised             | 3 |
| <input type="checkbox"/> | moderately raised to level    | 4 |
| <input type="checkbox"/> | level                         | 5 |
| <input type="checkbox"/> | level to moderately arched    | 6 |
| <input type="checkbox"/> | moderately arched             | 7 |
| <input type="checkbox"/> | moderately to strongly arched | 8 |
| <input type="checkbox"/> | strongly arched               | 9 |

## 5.13 Pod: width

- |                          |                       |   |
|--------------------------|-----------------------|---|
| <input type="checkbox"/> | very narrow           | 1 |
| <input type="checkbox"/> | very narrow to narrow | 2 |
| <input type="checkbox"/> | narrow                | 3 |
| <input type="checkbox"/> | narrow to medium      | 4 |
| <input type="checkbox"/> | medium                | 5 |
| <input type="checkbox"/> | medium to broad       | 6 |
| <input type="checkbox"/> | broad                 | 7 |
| <input type="checkbox"/> | broad to very broad   | 8 |
| <input type="checkbox"/> | very broad            | 9 |

## 5.17 Pod: curvature

- |                          |                       |   |
|--------------------------|-----------------------|---|
| <input type="checkbox"/> | absent or very weak   | 1 |
| <input type="checkbox"/> | very weak to weak     | 2 |
| <input type="checkbox"/> | weak                  | 3 |
| <input type="checkbox"/> | weak to medium        | 4 |
| <input type="checkbox"/> | medium                | 5 |
| <input type="checkbox"/> | medium to strong      | 6 |
| <input type="checkbox"/> | strong                | 7 |
| <input type="checkbox"/> | strong to very strong | 8 |
| <input type="checkbox"/> | very strong           | 9 |

## 5.12 Pod: length

- |                          |                     |   |
|--------------------------|---------------------|---|
| <input type="checkbox"/> | very short          | 1 |
| <input type="checkbox"/> | very short to short | 2 |
| <input type="checkbox"/> | short               | 3 |
| <input type="checkbox"/> | short to medium     | 4 |
| <input type="checkbox"/> | medium              | 5 |
| <input type="checkbox"/> | medium to long      | 6 |
| <input type="checkbox"/> | long                | 7 |
| <input type="checkbox"/> | long to very long   | 8 |
| <input type="checkbox"/> | very long           | 9 |

## 5.14 Pod: parchment

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

5.15 (*Excluding varieties with pod parchment: entire*) Pod: thickened wall

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

5.16 (*Only varieties with Pod: thickened wall: absent*) Pod: shape of distal part

- |                          |         |   |
|--------------------------|---------|---|
| <input type="checkbox"/> | pointed | 1 |
| <input type="checkbox"/> | blunt   | 9 |

## 5.18 Pod: colour

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

5.19 (*Excluding varieties with pod parchment: entire*) Pod: suture strings

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

## 5.20 Pod: number of ovules

- very few 1
- very few to few 2
- few 3
- few to medium 4
- medium 5
- medium to many 6
- many 7
- many to very many 8
- very many 9

## 5.22 Seed: type of starch grains

- simple 1
- compound 2

## 5.24 (Only varieties with plant anthocyanin colouration present) Seed: marbling of testa

- absent 1
- present 9

## 5.25 (Only varieties with plant anthocyanin colouration present) Seed: violet or pink sports on testa

- absent 1
- faint 2
- intense 3

## 5.26 Seed: hilum colour

- same colour as testa 1
- darker than testa 2

## 5.21 Immature seed: intensity of green colour

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

## 5.23 Seed: colour of cotyledon

- green 1
- yellow 2
- orange 3

## 5.27 Seed: weight

- very low 1
- very low to low 2
- low 3
- low to medium 4
- medium 5
- medium to high 6
- high 7
- high to very high 8
- 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 (or varieties) 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 your candidate variety	Characteristic(s) (e.g. time of flowering) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety (e.g. early).	Describe the expression of the characteristic(s) for <u>your</u> candidate variety (e.g. medium).

Comments:

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

7.1 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:

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes  No

If yes, please provide details:

7.3 Other information

Use

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

Resistance to disease

	Resistant	Susceptible	Not tested
<i>Fusarium oxysporum</i> f. sp. <i>Pisi</i> (Race 1) (Common Wilt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Erysiphe pisi</i> Syd. (Powdery mildew)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Ascochyta pisi</i> (leaf and pod spot) Race C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Resistance to other diseases (*please provide details*)

7.4 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 MAF 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 the authorisation.

## 9. Information on plant material to be examined or submitted for examination

9.1 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.

9.2 The plant material 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:

- |  |     |                          |    |                          |
|--|-----|--------------------------|----|--------------------------|
| a. Microorganisms (e.g. virus, bacteria, phytoplasma)    | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Chemical treatment (e.g. growth retardant, pesticide) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Tissue culture  | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Other factors   | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

Please provide details for where you have indicated "yes":