

Official Use only	
Ref. AFP	<input type="text"/> / <input type="text"/>
GM	Yes <input type="checkbox"/> No <input type="checkbox"/>

Technical Questionnaire (Vegetable Pea)

**Plant Varieties Act 1997 and
 The Seeds (National Lists of Varieties) Regulations 2001 (as amended)**

Please note:

- The completed TQ and the application form will part of the public record for this variety
- The seed submitted for DUS in the first year will be regarded as the definitive stock
- All relative sections of this form must be completed. An incomplete form may result in a delay in processing the application
- Completed forms should be sent to mailbox NLPBR-Applications@fera.gsi.gov.uk
 Alternatively forms may be sent to:

**The Food and Environment Research Agency, Whitehouse Lane, Huntingdon Road, Cambridge CB3 0LF
 Telephone 01223 342350**

Section 1 – Application details

(a) **National Listing (NL)** **Plant Breeders' Rights (PBR)**

(b) Please give details of applications already made or to be made in any other countries:

Country	Date	Application No.	NL	PBR	Variety name or Breeder's reference

(c) Has an application for European Community Plant Breeders' Rights (ECPBR) been made? Yes No

If 'Yes', please state date of application

(d) Country of origin of the candidate

(e) Where appropriate proposal for a variety denomination

(f) Provisional designation (breeder's reference)

Section 2 – Applicant details

(a) Name and address of applicant for:
 • National Listing:

• Plant Breeders' Rights (if different):

(b) Name and address of breeder:

(c) Name and address for correspondence:
 is the address for:

• service or • agent

An agent is authorised to act for the applicant on all aspects of an application, including instructions to withdraw applications, delete from a National List or surrender Plant Breeders' Rights

Section 3 – Information on origin, maintenance and reproduction of the variety

3.1 Do you wish the information on data relating to components of hybrid varieties including data related to their cultivation to be treated as confidential?..... Yes No

If yes, please give this information on the separate form for confidential information.

If no, please give information on data relating to components of hybrid varieties including data related to their cultivation.

Breeding scheme (indicate female component first)

3.2 Origin

(a) Seedling (indicate parent varieties).....

(b) Mutation (indicate parent variety).....

(c) Discovery (indicate where, when and how the variety has been developed)

(d) Other (please specify)

3.3 Method of propagation

(a) Cuttings

(b) *In vitro* propagation.....

(c) Seed

(d) Other (please specify)

3.4 Other information

In the case of seed propagated varieties: method of production:

(a) Self-pollinated

(b) Cross-pollinated (please give details)

(c) Hybrid (please give details)

Section 4 – Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the CPVO Protocol; please mark the state of expression which best corresponds).

Characteristics	Note
4.1 Seed: shape of starch grain (2)	
Simple	1 <input type="checkbox"/>
Compound	2 <input type="checkbox"/>
4.2 Seed: colour of cotyledon (3)	
Green	1 <input type="checkbox"/>
Yellow	2 <input type="checkbox"/>
4.3 <u>Varieties with anthocyanin only:</u> (4) Seed: marbling of testa	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
4.4 <u>Varieties with anthocyanin only:</u> (5) Seed: violet or pink spots on testa	
Absent	1 <input type="checkbox"/>
Faint	2 <input type="checkbox"/>
Intense	3 <input type="checkbox"/>
4.5 Seed: black colour of hilum (6)	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
4.6 Plant: anthocyanin coloration (9)	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
4.7 Seed: weight (65)	
Very small	1 <input type="checkbox"/>
Small	3 <input type="checkbox"/>
Medium	5 <input type="checkbox"/>
Large	7 <input type="checkbox"/>
Very large	9 <input type="checkbox"/>
4.8 Seed: time of maturity (62)	
Very early	1 <input type="checkbox"/>
Early	3 <input type="checkbox"/>
Medium	5 <input type="checkbox"/>
Late	7 <input type="checkbox"/>
Very late	9 <input type="checkbox"/>

Characteristics	Note
4.9 Foliage: colour (16)	
Yellow green	1 <input type="checkbox"/>
Green	2 <input type="checkbox"/>
Blue green	3 <input type="checkbox"/>
4.10 Leaf: leaflets (19)	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
4.11 Stipule: type of development (28)	
Rudimentary	1 <input type="checkbox"/>
Well developed	2 <input type="checkbox"/>
4.12 Stipule: 'rabbit-eared' stipules (29)	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
4.13 Stipule: flecking (33)	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
4.14 Time of flowering (36)	
Very early	1 <input type="checkbox"/>
Early	3 <input type="checkbox"/>
Medium	5 <input type="checkbox"/>
Late	7 <input type="checkbox"/>
Very late	9 <input type="checkbox"/>
4.15 Varieties with anthocyanin only: (38) Flower: anthocyanin coloration of wing	
Pink blush	1 <input type="checkbox"/>
Pink	2 <input type="checkbox"/>
Reddish purple	3 <input type="checkbox"/>
4.16 Pod: length (at second flowering node) (48)	
Very short	1 <input type="checkbox"/>
Short	3 <input type="checkbox"/>
Medium	5 <input type="checkbox"/>
Long	7 <input type="checkbox"/>
Very long	9 <input type="checkbox"/>

Characteristics	Note
4.17 Pod: parchment (50)	
Absent	1 <input type="checkbox"/>
Partially present	2 <input type="checkbox"/>
Entirely present	3 <input type="checkbox"/>
<hr/>	
4.18 Varieties with no or partial parchment only: (51) Pod: thickened wall	
Absent	1 <input type="checkbox"/>
Present	9 <input type="checkbox"/>
<hr/>	
4.19 Varieties without thickened wall only: (54) Pod: shape of distal part	
Pointed	1 <input type="checkbox"/>
Blunt	2 <input type="checkbox"/>
<hr/>	
4.20 Pod: colour	
Yellow	1 <input type="checkbox"/>
Green	2 <input type="checkbox"/>
Blue-green	3 <input type="checkbox"/>
Purple	4 <input type="checkbox"/>
<hr/>	
4.21 Pod: intensity of green colour of immature seed (61)	
Light	3 <input type="checkbox"/>
Medium	5 <input type="checkbox"/>
Dark	7 <input type="checkbox"/>
<hr/>	
4.22 UK: Plant: number of nodes to first flower (13) (including scale leaves at nodes 1 and 2)	<input type="text"/>
<hr/>	
4.23 UK: Plant: fasciation (11)	absent <input type="checkbox"/> present <input type="checkbox"/>
<hr/>	
4.24 UK: Pod: maximum number at any node	<input type="text"/>
<hr/>	
4.25 UK: Pod: number of ovules (60)	<input type="text"/>

Section 5 – Similar varieties and differences from these varieties:

Denomination of similar variety	Characteristic in which the similar variety is different ¹⁾	State of expression of similar variety	State of expression of candidate variety

¹⁾ In the case of identical states of expressions of both varieties, please indicate the size of the difference

Section 6 – Additional information which may help to distinguish the variety**6.1 Resistance to pests and diseases**

	Absent	Present	Not tested
i) <i>Fusarium oxisporum</i> f. sp. Pisi			
Race 1 (Characteristic 66.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Race 2 (Characteristic 66.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Race 5 (Characteristic 66.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Race 6 (Characteristic 66.4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) <i>Erysiphe pisi</i> Syd. (Characteristic 67)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) <i>Ascochyta pisi</i>			
Race C (Characteristic 68)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv) <i>Pseudomonas syringae</i> pv. Pisi			
Pathovar 2 (Characteristic 69.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pathovar 4 (Characteristic 69.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
v) Seed-borne Mosaic Virus (SbmV) strain P1			
Characteristic 70	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
vi) Bean Yellow Mosaic Virus (BYMV)			
Characteristic 71	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
vii) Pea Enation Mosaic Virus (PEMV)			
Characteristic 72	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
viii) Other resistances (specify).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6.2 Main use

- Canning
- Freezing
- Fresh market or garden
- Drying
- Edible pods
- Other use (specify)

6.3 Growth type

- Dwarf
- Non dwarf

6.4 Special conditions for the examination of the variety

Yes, please specify

No

If it is agreed to carry out a special DUS test an appropriate charge will be levied.

6.5 Other information

Yes, please specify

No

Section 7 – GMO and other Novel types

Does this application relate to a Genetically Modified Organism (GMO) as defined within the meaning of Section 106 of the Environmental Protection Act 1990? Yes No

If 'Yes' you must complete form PVS 9/B Genetically modified and other Novel Candidates.

Declaration

I/We declare that to the best of my/our knowledge and belief the statements made in this Technical Questionnaire are correct.

Signature of applicant

(original signature unless emailed)

Date

Name in BLOCK letters

For and on behalf of