
Section 4 - Information on origin, maintenance and reproduction of the variety

4.1 Do you wish the details and 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 the components of hybrid varieties including data related to their cultivation.

Breeding scheme (indicate female component first)

4.2 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)

4.3 Method of propagation

(a) Cuttings

(b) *In vitro* propagation

(c) Seed

(d) Other (please specify)

4.4 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)

4.5 Geographical origin of the variety: the region and the country in which the variety was bred or discovered and developed

Section 5 – 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).

5.1 Type:

Grain

Silage

Grain and silage

White

Small blue

Large blue

Maple

Marrow fat

Characteristic	Example varieties	Note
5.2 Plant: anthocyanin colouration (1)		
Absent	Avola, Solara	1 <input type="checkbox"/>
Present	Pidgin, Rosakrone	9 <input type="checkbox"/>
5.3 Stem: length (4)		
Very short	Zephir	1 <input type="checkbox"/>
Short	Nobel, Mini	3 <input type="checkbox"/>
Medium	Calibra, Xantos	5 <input type="checkbox"/>
Long	Blauwschokker, Livia	7 <input type="checkbox"/>
Very long	Mammoth Melting Sugar	9 <input type="checkbox"/>
5.4 Stem: number of nodes up to and including first fertile node (5)		
Very few	Kelvil	1 <input type="checkbox"/>
Few	Smart, Zero4	3 <input type="checkbox"/>
Medium	Markana, Susan	5 <input type="checkbox"/>
Many	Cooper	7 <input type="checkbox"/>
Very many	Regina	9 <input type="checkbox"/>
5.5 Foliage: colour (6)		
Yellow green	Pilot	1 <input type="checkbox"/>
Green	Avola, Paris, Progreta, Waverex	2 <input type="checkbox"/>
Blue green	Polar	3 <input type="checkbox"/>
5.6 Leaf: leaflets (8)		
Absent	Hawk, Solara	1 <input type="checkbox"/>
Present	Avola, Rhea	9 <input type="checkbox"/>
5.7 Stipule: flecking (19)		
Absent	Lisa, Tafila	1 <input type="checkbox"/>
Present	Avola, Maro	9 <input type="checkbox"/>
5.8 Time of flowering (23)		
Very early	Tempo	1 <input type="checkbox"/>
Early	Smart, Zero4	3 <input type="checkbox"/>
Medium	Carlton, Waverex	5 <input type="checkbox"/>
Late	Cooper, Purser	7 <input type="checkbox"/>
Very late	Livioletta	9 <input type="checkbox"/>

Characteristic	Example varieties	Note
5.9 Only varieties with stem fasciation absent:	Plant: maximum number of flowers per node	
(24)		
One	Progress N°9, Tyla	1 <input type="checkbox"/>
Two	Banff, Cooper	3 <input type="checkbox"/>
Three	Ultimo, Zodiac	5 <input type="checkbox"/>
Four or more	Arnesa, Calibra, Survivor	7 <input type="checkbox"/>
5.10 Only varieties with plant anthocyanin colouration present:	Flower: colour of wing	
(25)		
White with pink blush		1 <input type="checkbox"/>
Pink	Rosakrona	2 <input type="checkbox"/>
Reddish purple	Assas	3 <input type="checkbox"/>
5.11 Flower: shape of base of standard		
(28)		
Strongly raised		1 <input type="checkbox"/>
Moderately raised	Progreta	3 <input type="checkbox"/>
Level	Markado, Solara	5 <input type="checkbox"/>
Moderately arched	Avola, Cooper	7 <input type="checkbox"/>
Strongly arched	Bohatyr, Kennedy	9 <input type="checkbox"/>
5.12 Pod: length		
(35)		
Very short	Cepia, Vermio	1 <input type="checkbox"/>
Short	Progreta, Solara	3 <input type="checkbox"/>
Medium	Copper, Jof	5 <input type="checkbox"/>
Long	Hurst Green Shaft, Protor	7 <input type="checkbox"/>
Very long	Tirabeque	9 <input type="checkbox"/>
5.13 Pod: width		
(36)		
Very narrow	Claire	1 <input type="checkbox"/>
Narrow	Picar, Ultimo	3 <input type="checkbox"/>
Medium	Progreta, Solara	5 <input type="checkbox"/>
Broad	Finale, Kahuna	7 <input type="checkbox"/>
Very broad	Kennedy	9 <input type="checkbox"/>
5.14 Pod: parchment		
(37)		
Absent or partial	Sugar Ann	1 <input type="checkbox"/>
Entire	Avola, Solara	2 <input type="checkbox"/>

Characteristic	Example varieties	Note
5.15 Excluding varieties with pod parchment: entire: Pod: thickened wall (38)		
Absent	Nofila, Reuzensuiker	1 <input type="checkbox"/>
Present	Cygnnet, Sugar Ann	9 <input type="checkbox"/>
5.16 Only varieties with pod thickened wall: absent: Pod: shape of distal part (39)		
Pointed	Jof, Oskar	1 <input type="checkbox"/>
Blunt	Avola, Solara	2 <input type="checkbox"/>
5.17 Pod: colour (41)		
Yellow		1 <input type="checkbox"/>
Green	Avola, Solara	2 <input type="checkbox"/>
Blue green	Show Perfection	3 <input type="checkbox"/>
Purple	Blauwschokker	4 <input type="checkbox"/>
5.18 Excluding varieties with pod parchment: entire: Pod: suture strings (43)		
Absent	Nofila, Sugar Lacer	1 <input type="checkbox"/>
Present	Crispi, Reuzensuiker	9 <input type="checkbox"/>
5.19 Pod: number of ovules (44)		
Few	De Grace, Phoenix	3 <input type="checkbox"/>
Medium	Backgammon, Hawk	5 <input type="checkbox"/>
Many	Karisma	7 <input type="checkbox"/>
5.20 Immature seed: intensity of green colour (45)		
Light	Arabelle, Solara, Ultimo	3 <input type="checkbox"/>
Medium		5 <input type="checkbox"/>
Dark	Dark Skin Perfection, Hawaiï	7 <input type="checkbox"/>
5.21 Seed: type of starch grains (47)		
Simple	Adagio, Maro, Solara	1 <input type="checkbox"/>
Compound	Avola, Polar	2 <input type="checkbox"/>
5.22 Seed: colour of cotyledon (50)		
Green	Avola, Solara	1 <input type="checkbox"/>
Yellow	Caractacus, Hardy	2 <input type="checkbox"/>
Orange		3 <input type="checkbox"/>
5.23 Only varieties with plant anthocyanin colouration: present: Seed: marbling of testa (51)		
Absent	Rhea, Rif	1 <input type="checkbox"/>
Present	Assas, Pidgin	9 <input type="checkbox"/>

Characteristic	Example varieties	Note
5.24 Only varieties with plant anthocyanin colouration: present: Seed: violet or pink spots on testa (52)		
Absent	Pidgin, Rif	1 <input type="checkbox"/>
Faint	Assas, Susan	2 <input type="checkbox"/>
Intense	Arvika, Rhea	3 <input type="checkbox"/>

5.25 Seed: hilum (53)

Same colour as testa	Avola, Solara	1 <input type="checkbox"/>
Darker than testa	Nofila, Rif	2 <input type="checkbox"/>

5.26 Seed: weight (55)

Very low	Ultimo	1 <input type="checkbox"/>
Low	Hawk, Iceberg	3 <input type="checkbox"/>
Medium	Mammoth Melting Sugar, Phoenix	5 <input type="checkbox"/>
High	Kennedy, Maro	7 <input type="checkbox"/>
Very high	Bamby, Kabuki	9 <input type="checkbox"/>

Section 6 – 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 expression of both varieties, please indicate the size of the difference.

Section 7 – Additional information which may help to distinguish the variety

7.1 Resistance to pests and diseases

	Resistant	Susceptible	Not tested
Fusarium Wilt (Race 1) (Common Wilt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fusarium Wilt (Race 5) (Common Wilt)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fusarium Wilt (Race 6) (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> Race C (leaf and pod spot)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Resistances (please specify)			

7.2 Growth type

Dwarf	<input type="checkbox"/>
Non-dwarf	<input type="checkbox"/>

7.3 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

7.4 Use

Fresh market

Canning

Freezing

Dry seed for human consumption

Dry Protein

Forage

Other (please specify)

7.5 Other information

Yes, please specify

No

Section 8 - GMO and other Novel types

Does this application relate to a Genetically Modified Organism as defined in Section 106 of the Environmental Protection Act 1990?

Yes

No

If "Yes" you must complete form PVS9/B Genetically Modified and other Novel Candidates.

Section 9 - Information on plant material to be examined

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).

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) Micro-organisms (eg virus, bacteria, phytoplasma)

Yes

No

(b) Chemical treatment (eg growth retardant or pesticide)

Yes

No

(c) Tissue culture

Yes

No

(d) Other factors

Yes

No

Please provide details of where you have indicated "Yes"

Section 10 - Value for Cultivation and use (VCU) information (for NL purposes only)**10.1 Standard VCU characters and agreed optional characters**

The obligatory VCU characters measured for all candidates are shown in bold in the VCU procedures at <https://www.gov.uk/guidance/vcu-protocols-and-procedures-for-testing-agricultural-crops>, or are available from the Animal and Plant Health Agency (APHA). Agreed procedures exist for some optional characters (shown in italics in the VCU procedures). If you wish any of these to be assessed, you must request that they be measured by ticking the appropriate box – see below. Additional fees will be charged by the trial organiser.

Do you wish any optional characters to be measured?

Yes No

If 'Yes' please give details

10.2 Additional VCU characters

Are there any non-standard characters to be measured?

Yes No

If 'Yes' please provide details of the proposed test to APHA. The characteristic being tested for must have Value for Cultivation and Use. The test must be able to demonstrate whether the candidate has the characteristic and be statistically valid. The agreement of the UK National Authorities is required before special tests can be undertaken and additional fees will be charged.

10.3 Other factors for VCU assessment

Are there any other factors that should be taken into account for the VCU assessment (e.g. susceptibility to commercial herbicides, special uses, agronomic characteristics, pest/disease resistance)?

Yes No

If 'Yes' please give details

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

Date

(original signature unless emailed)

Name in BLOCK letters

For and on behalf of