
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 Type of material

- (a) Parental line
- (b) Single hybrid
- (c) Three-way hybrid
- (d) Double hybrid
- (e) Topcross hybrid
- (f) Open pollinating variety
- (g) Other (please indicate formula)

4.3 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)

4.4 Method of propagation

- (a) Cuttings
- (b) *In vitro* propagation
- (c) Seed
- (d) Other (please specify)

4.5 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)

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

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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).

Characteristic	Example varieties	Note
5.1 Seasonal type (22)		
Winter type	Farino	1 <input type="checkbox"/>
Alternative type		2 <input type="checkbox"/>
Spring type	Sorom	3 <input type="checkbox"/>
5.2 Ploidy (1)		
Diploid	Farino, Sorom	2 <input type="checkbox"/>
Tetraploid	Tero	4 <input type="checkbox"/>
5.3 Coleoptile: anthocyanin colouration (3)		
Absent or very weak		1 <input type="checkbox"/>
Weak		3 <input type="checkbox"/>
Medium		5 <input type="checkbox"/>
Strong	Calypso, Sorom	7 <input type="checkbox"/>
Very strong		9 <input type="checkbox"/>
5.4 Time of ear emergence (9)		
Very early		1 <input type="checkbox"/>
Early	Danko	3 <input type="checkbox"/>
Medium	Farino, Sorom	5 <input type="checkbox"/>
Late		7 <input type="checkbox"/>
Very late		9 <input type="checkbox"/>
5.5 Stem: hairiness below ear (13)		
Absent or very weak	Halo, Sorom	1 <input type="checkbox"/>
Weak	Uso, Petka	3 <input type="checkbox"/>
Medium		5 <input type="checkbox"/>
Strong		7 <input type="checkbox"/>
Very strong		9 <input type="checkbox"/>

Characteristic	Example varieties	Note
5.6 Plant: length (stem, ear and awns) (14)		
Very short		1 <input type="checkbox"/>
Short	Calypso	3 <input type="checkbox"/>
Medium	Sorom	5 <input type="checkbox"/>
Long	Protector	7 <input type="checkbox"/>
Very Long		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

7.2 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

7.3 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 <input type="checkbox"/> | No <input type="checkbox"/> |
| (b) Chemical treatment (eg growth retardant or 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 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. 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 (eg 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