
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 Variety type

(a) Open-pollinated variety

(d) Other (please indicate)

4.6 Managing the risk of adventitious GM presence

(a) The region and the country in which the variety was bred or discovered and developed

(b) Country of origin of the seed of the candidate variety

(c) Are you currently a participant in the voluntary AGMP risk audit programme run by the GM Inspectorate for England on behalf of Defra?

Yes No

If 'No' please provide an assessment of your company's quality assurance measures with respect to adventitious GM presence in conventional seed

Section 5 - Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the UPOV Test Guideline; please mark the state of expression which best corresponds).

Characteristic	Example varieties	Note
5.1 Leaf: type (3)		
Entire	Niko	1 <input type="checkbox"/>
Lobed	Jaune à Collet Rouge, Magres	2 <input type="checkbox"/>
5.2 Root: predominant colour of skin above soil (12)		
Green	Jaune à Collet Vert, Melfort, Seefelder	1 <input type="checkbox"/>
Bronze	Harrietfield	2 <input type="checkbox"/>
Reddish purple	Angus, Jaune à Collet Rouge, Kenmore	3 <input type="checkbox"/>
5.3 Root: anthocyanin colouration of skin above soil (13)		
Absent	Seefelder	1 <input type="checkbox"/>
Present	Jaune à Collet Rouge, Ruta Otofte	9 <input type="checkbox"/>
5.4.1 Only varieties with green or bronze skin colour: (14.1) Root: intensity of anthocyanin colouration of skin above soil		
Weak	Melfort	3 <input type="checkbox"/>
Medium	Angus	5 <input type="checkbox"/>
Strong	Kenmore	7 <input type="checkbox"/>
5.5 Root: shape in longitudinal section (16)		
Transverse elliptic	Acme, Seefelder	1 <input type="checkbox"/>
Circular	Jaune à Collet Vert, Ruby	2 <input type="checkbox"/>
Obovate	Doon Major	3 <input type="checkbox"/>
Square	Kenmore	4 <input type="checkbox"/>
Oblong	Blanc Hors Terre	5 <input type="checkbox"/>

**5.6 Pseudostem: length
(19)**

Short	Helena, Melfort	3	<input type="checkbox"/>
Medium	Ruta Otofte, Sator Otofte	5	<input type="checkbox"/>
Long	Vittoria	7	<input type="checkbox"/>

**5.7 Pseudostem: anthocyanin colouration between leaf scars
(20)**

Absent or very weak	Melfort, Merrick, Seefelder	1	<input type="checkbox"/>
Entire	Champion, Magres	2	<input type="checkbox"/>

**5.8 Root: colour of flesh
(21)**

White	Blanc Hors Terre, Merrick	1	<input type="checkbox"/>
Yellow	Jaune à Collet Rouge, Magres	2	<input type="checkbox"/>

**5.9 Flower: production of pollen
(23)**

Absent	Tweed	1	<input type="checkbox"/>
Present	Magres	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 Main use

Agriculture/fodder		<input type="checkbox"/>
Vegetable	Fresh	<input type="checkbox"/>
	Processing	<input type="checkbox"/>
	Others (please specify)	<input type="checkbox"/>

7.3 Dry matter content

Low	<input type="checkbox"/>
Medium	<input type="checkbox"/>
High	<input type="checkbox"/>

7.4 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

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 <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 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