

## Technical questionnaire

**barley**

**CPVO/TQ-019/5**

*Mandatory fields or sections are marked with an asterisk (\*)*

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**01 . Botanical taxon: name of the genus, species or sub-species to which the variety belongs:**

*Hordeum vulgare* L.

Other species (please specify)

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**02 . Application code:**

For office use only

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**03 . Breeder's reference:**

Breeder's Ref.

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**04 . Information on the breeding scheme and propagation of the variety \***

**04 . 01 . Type of material \***

**04 . 01.01 . Line**

male fertile line

male sterile line

maintainer of sterility

restorer of fertility

**04 . 01.02 . Hybrid**

*(this question could be confidential)*

male sterile single hybrid

male fertile single hybrid

three-way cross hybrid

**04 . 01.03 . Other type of material**

*(this question could be confidential)*

Please specify

**04 . 02 . Formula \***

If applicable, for each component in separate sheets, the information according to the following chapter 5 to 7 to be added.

**04 . 02 01 . Single hybrid**

*(this question could be confidential)*

Denomination or breeder's reference of female parental line of single hybrid ( )x( Denomination or breeder's reference of male parental line of single hybrid )

**04 . 02 02 . Three-Way hybrid**

*(this question could be confidential)*

Denomination or breeder's reference of female parental line of the single hybrid used as female parent ( )x( Denomination or breeder's reference of male parental line of the single hybrid used as female parent )

single hybrid used as female ( )x( Denomination or breeder's reference of male parental line of the three-way hybrid )

**04 . 02 03 . In case of use of the male sterility system, indicate the name of the maintainer line of the female parental line:**

*(this question could be confidential)*

Maintainer line of the female parental line



**04 . 03 . Breeding scheme \****(this question could be confidential)*

seedling	Indicate parent varieties
mutation	Indicate parent variety
discovery	Indicate where, when and how the variety has been developed
other	Please specify

**04 . 04 . Method of propagation of the variety \***

cuttings  
 in vitro propagation  
 seed  
 other

**04 . 05 . In the case of seed propagated varieties, method of production:**

self-pollination	
cross pollination	Please provide details
hybrid	Please provide details under 04.02

**05 . Characteristics of the variety to be indicated \***

(the number in brackets refers to the corresponding characteristic in the CPVO Technical Protocol; please mark the state of expression which best corresponds)

**05 . 01 . Lowest leaves: hairiness of leaf sheath (4) (G) \***

1 - absent	Grace (S), California (W)
9 - present	Henriette (W)



**05 . 02 . Time of ear emergence (07) \***

1 - very early	
2 - very early to early	
3 - early	Lily (S), Meseta (W)
4 - early to medium	
5 - medium	Natasia (S), California (W)
6 - medium to late	
7 - late	Saffron (W)
8 - late to very late	
9 - very late	

**05 . 03 . Awns: anthocyanin coloration of tips (9) \***

1 - absent or very weak	California (W)
2 - very weak to weak	
3 - weak	Pirona (S), Lomerit (W)
4 - weak to medium	
5 - medium	Ebson (S), Marielle (W)
6 - medium to strong	
7 - strong	Grace (S), Semper (W)
8 - strong to very strong	
9 - very strong	Willma (S)

**05 . 04 . Plant: length (13) \***

1 - very short	
2 - very short to short	
3 - short	Frontier (S), Findora (W)
4 - short to medium	
5 - medium	Quench (S), Henriette (W)
6 - medium to long	
7 - long	Pirona (S), Semper (W)
8 - long to very long	
9 - very long	

**05 . 05 . Ear: number of rows (14) (G) \***

1 - two	Grace (S), California (W)
2 - six	Oslok (S), Henriette (W)

**05 . 06 . Ear: development of sterile spikelets (15) (G) \***

1 - none or rudimentary	Grace (S), California (W)
2 - full	Quench (S), Casanova (W)



**05 . 07 . Grain: rachilla hair type (24) (G) \***

1 - short	Quench (S), KWS Joy (W)
2 - long	Grace (S), California (W)

**05 . 08 . Grain: type (26) \***

1 - non-husked	Pirona (S)
9 - husked	Grace (S), Henriette (W)

**05 . 09 . Grain: hairiness of ventral furrow (27) (G) \***

1 - absent	Grace (S), Henriette (W)
9 - present	Saffron (W)

**05 . 10 . Seasonal type (29) (G) \***

1 - winter type	Henriette (W)
2 - alternative type	Farandole (W)
3 - spring type	Grace (S), Cierzo, Genie (W)

**06 . Similar varieties and differences from these varieties**

Please note that information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing.

**06 . 01 . Are there any similar varieties known? \***

Yes

No

**06 . 02 . Similar varieties and differences from these varieties: \***

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

**07 . Additional information which may help to distinguish the variety \*****07 . 01 . Resistance to pests and diseases \***

Yes, specify

No



**07 . 02 . In addition to the information provided in sections 05 and 06, are there any additional characteristics which may help to distinguish the variety? \***

Yes, specify

No

**07 . 03 . Are there any special conditions for growing the variety or conducting the examination? \***

Yes, specify

No

**07 . 04 . Other information \***

Yes, specify

No

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**08 . GMD-information \***

**08 . 01 . GMD-information required \***

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

Yes

If yes, please attach in point 08.02 a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

No

**08 . 02 . In case of GMD, joint attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.**

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**09 . Information on plant material to be examined**

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. Consequently the plant material to be examined 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:

**09 . 01 . Micro-organisms (e.g. virus, bacteria, phytoplasma) \***

Yes, specify

No

**09 . 02 . Chemical treatment (e.g. growth retardant or pesticide) \***

Yes, specify

No

**09 . 03 . Tissue culture \***

Yes, specify

No



**09. 04. Other factors \***

Yes, specify

No

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**10. Possible place of the technical examination**

In case the CPVO needs to arrange a technical examination for this candidate variety, there might be more than one examination office entrusted by the CPVO suitable to grow your variety. In this case, the Office will decide on the place of the technical examination but you might wish to express here a preference in respect of an examination office. The available entrusted examination offices for that species can be found in the S3 Gazette under: <http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/entrusted-examination-offices>

You will also find in the S2 Gazette further information about submission of plant material and deadlines for numerous major species: <http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/submission-of-plant-material-s2-publication>

**10. 01 . Country where the examination could take place**

Country

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**Attached document(s)**

**The following forms or documents are attached to this application : please tick the relevant boxes**

- Application form, confidential part (original only)
- Technical questionnaire (original only)
- Technical questionnaire, confidential part (original only)
- Form of designation of a procedural representative
- Documentary evidence of entitlement to file an application
- Priority claim (certified copy of the first application)
- Form "Details of payment"
- Photographs (in case of fruit and ornamental varieties)
- Copy of the relevant written release consent (for GMOs)
- Others, please specify

Remark



**DECLARATIONS \***

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Place

Date

Name

Signature

