

## Technical questionnaire

**curly kale**

**CPVO/TQ-090/1**

*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:**

*Brassica oleracea* L. var *sabellica* L.

*Brassica oleracea* L. var. *costata* DC.

Other (please specify)

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**02 . Application code:**

For office use only

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**03 . Breeder's reference:**

Breeder Ref.

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

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

*(this question could be confidential)*

hybrid

cross-pollinated variety

self-pollinated variety

parent line

**04 . 02 . Method of propagation of the variety \***

*(this question could be confidential)*

seed propagated

vegetatively propagated

**04 . 03 . Other information on genetic origin and breeding method***(this question could be confidential)*

Please specify

**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 . Plant: height (1) \***

1 - very short

2 - very short to short

3 - short

Niedriger grüner krauser

4 - short to medium

5 - medium

Frosty, Hammer

6 - medium to tall

7 - tall

Westlandse Herfst

8 - tall to very tall

9 - very tall

**05 . 02 . Leaf: anthocyanin coloration (5) \***

1 - absent

Lerchenzungen, Pentland Brig

9 - present

Garna Red

**05 . 03 . Leaf: colour of fully developed leaf (8) \***

1 - yellow green

Hammer

2 - green

Frosty

3 - grey green

Lerchenzungen

4 - blue green

Vates

5 - red or purple

Garna Red



**05 . 04 . Leaf blade: length (11) \***

1 - very short

2 - very short to short

3 - short

Vates

4 - short to medium

5 - medium

Spurt

6 - medium to long

7 - long

Lerchenzungen

8 - long to very long

9 - very long

**05 . 05 . Leaf blade: width (12) \***

1 - very narrow

2 - very narrow to narrow

3 - narrow

Vates

4 - narrow to medium

5 - medium

Spurt

6 - medium to broad

7 - broad

Westlandse Herfst

8 - broad to very broad

9 - very broad

**05 . 06 . Leaf blade: density of "curling" (leaves at middle of plant) (14) \***

1 - absent or very low

Cottagers

2 - very low to low

3 - low

Garna Red, Pentland Brig

4 - low to medium

5 - medium

Dwarf Green Curled

6 - medium to high

7 - high

Halbhoher grüner krauser, Westlandse Herfst

8 - high to very high

9 - very high

**05 . 07 . Petiole: attitude at middle of plant (16) \***

1 - erect

Arsis

2 - semi-erect

Vates

3 - horizontal

Kobolt



**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(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your 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

**07 . 05 . Photo**

It is recommended to provide a representative colour image of full grown plant(s) of the variety to accompany the Technical Questionnaire.

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**08 . GMO-information \***

**08 . 01 . GMO-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 GMO, 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

Other confidential documents

Photo

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

