

## Technical questionnaire

### Cauliflower

#### Version 12

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. (Cauliflower Group) (syn. *Brassica oleracea* L. convar. *botrytis* (L.) Alef. var. *botrytis*)

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 \*

(this question could be confidential)

hybrid

cross-pollinated variety

self-pollinated variety

parent line

##### 04 . 01.01 . Parental line use \*

(this question could be confidential)

In many cases there is a link in morphological expression of characteristics between the parent line and its hybrids. Therefore, it is recommended to provide information about the identity of hybrid varieties where the parental line is used. This makes the organisation of the technical examination more efficient and lowers the risk of an additional year at the costs of the applicant. This information will be dealt with confidentially and only share with the examination office in charge of the technical examination.

Please indicate for the production of which hybrid variety(ies) the parental line is used

\*

**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

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**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 . 00 . Growing season \***

spring

summer

autumn

winter

overwintering

tropical

**05 . 01 . Seedling: anthocyanin coloration of hypocotyl (1) (G) \***

1 - absent

Brio

9 - present

Ciren, Dominant

**05 . 01.01 . Plant: height (at time of harvest) (2) \***

1 - very short

2 - very short to short

3 - short

Luxor, Opaal

4 - short to medium

5 - medium

Fastman, Mexico

6 - medium to tall

7 - tall

Neven, Sirente

8 - tall to very tall

9 - very tall

Calisa, Paradiso

**05 . 01.02 . Stem: length (up to insertion of first leaf) (3)**

1 - very short

2 - very short to short

3 - short

Mexico, Opaal

4 - short to medium

5 - medium

Nautilus

6 - medium to long

7 - long

Neven, Paradiso

8 - long to very long

9 - very long

**05 . 01.03 . Leaf: attitude (4)**

1 - erect

Igloo, Paradiso

2 - erect to semi-erect

3 - semi-erect

Erfurter Zwerg, Fastman

4 - semi-erect to horizontal

5 - horizontal

Isabel, Opaal

**05 . 01.04 . Leaf: colour (with wax if present) (9) \***

1 - green

Baltimore, Belot, Lecerf

2 - grey green

Calisa, Géant de Naples tardif

3 - blue green

Arbon, Barrier Reef, Ciren

**05 . 02 . Leaf: intensity of colour (with wax if present) (10) \***

1 - very light

2 - very light to light

3 - light

Baltimore, Ciren

4 - light to medium

5 - medium

Barrier Reef, Belot, Calisa

6 - medium to dark

7 - dark

Arbon, Lecerf

8 - dark to very dark

9 - very dark

**05 . 02.01 . Leaf: undulation of margin (15)**

1 - absent or very weak	Etoile 23, Géant de Naples tardif
2 - very weak to weak	
3 - weak	Akita, Beluga
4 - weak to medium	
5 - medium	Admirable, Alice Springs
6 - medium to strong	
7 - strong	Purdy, Siria
8 - strong to very strong	
9 - very strong	Celebrity

**05 . 02.02 . Curd: shape in longitudinal section (19) \***

1 - circular	Gipsy Moth, Linero
2 - transverse broad elliptic	Aviron, Melody
3 - transverse medium elliptic	Akita, Celesta
4 - transverse narrow elliptic	Erfurter, Lecerf
5 - triangular	Romanesco ottobrino

**05 . 03 . Curd: colour (21) (G) \***

1 - whitish	Astell, Iceberg
2 - yellow	Di Jesi
3 - orange	Cheddar, Sunset
4 - green	Amfora
5 - violet	Graffiti

**05 . 04 . Flower: colour (25) (G) \***

1 - white	Bruce, Ecrin
2 - yellow	Lecerf

**05 . 05 . Earliness in spring planting (26) (G) \***

1 - very early	Please indicate an example variety
2 - very early to early	Please indicate an example variety
3 - early	Please indicate an example variety
4 - early to medium	Please indicate an example variety
5 - medium	Please indicate an example variety
6 - medium to late	Please indicate an example variety
7 - late	Please indicate an example variety
8 - late to very late	Please indicate an example variety
9 - very late	Please indicate an example variety

**05 . 06 . Earliness in summer planting (27) (G) \***

1 - very early autumn type	Please indicate an example variety
2 - very early to early autumn type	Please indicate an example variety
3 - early autumn type	Please indicate an example variety
4 - early to medium autumn type	Please indicate an example variety
5 - medium autumn type	Please indicate an example variety
6 - medium to late autumn type	Please indicate an example variety
7 - late autumn type	Please indicate an example variety
8 - late to very late autumn type	Please indicate an example variety
9 - very late autumn type	Please indicate an example variety
10 - very early winter type	Please indicate an example variety
11 - very early to early winter type	Please indicate an example variety
12 - early winter	Please indicate an example variety
13 - early to medium winter type	Please indicate an example variety
14 - medium winter type	Please indicate an example variety
15 - medium to late winter type	Please indicate an example variety
16 - late winter type	Please indicate an example variety
17 - late to very late winter type	Please indicate an example variety
18 - very late winter type	Please indicate an example variety

**05 . 07 . Male sterility (28) (G) \***

1 - absent	Alpha 2
2 - partial	Dunvez, Odegwen
3 - present	Aviron, Bodilis

**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 . In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? \***

Yes, specify

No

**07 . 02 . Are there any special conditions for growing the variety or conducting the examination? \***

**07 . 02.01 . Growing region**

Please specify

**07 . 02.02 . Preferred growing season \***

spring

summer

autumn

winter

overwintering

tropical

**07 . 02.03 . Preferred country for DUS examination \***

Spain

France

the Netherlands

**07 . 02.03.01 . Preferred trial for DUS examination \***

summer trial (outdoor, sowing week 7, around 13-2)

autumn trial (outdoor, sowing week 19, around 06-6)

overwintering trial (outdoor, sowing week 28, around 10-7)

tropical trial (greenhouse, sowing week 25, around 19-6)

**07 . 02.04 . Number of days from plantation to harvesting \***

Number of days \*

**07 . 02.05 . Other special conditions required \***

Yes, specify

No

**07 . 03 . Other information \***

**07 . 03.01 . Resistance to pests and diseases \***

Yes, specify

No

**07 . 03.02 . Other information \***

Yes, specify

No

**07 . 04 . Photo**

It is highly 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.**

**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

**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