

## Technical questionnaire

*Brassica oleracea* L. convar. *botrytis* (L.) Alef. var. *botrytis* L. - Cauliflower group

**Cauliflower**

**Version 12 - Publication date: 10/07/2024**

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

### 04 . Information on the breeding scheme and propagation of the variety

#### 04.01. Type of material \*

- hybrid
- cross-pollinated variety
- self-pollinated variety
- parent line

#### 04.01.01. Parental line use \*

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 \*

- seed propagated
- vegetatively propagated

#### 04.03. Other information on genetic origin and breeding method

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

**(1) (G) 05.01. Seedling: anthocyanin coloration of hypocotyl \***

- 1 - absent Brio
- 9 - present Ciren, Dominant

**(2) 05.01.01. Plant: height (at time of harvest) \***

- 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

**(3) 05.01.02. Stem: length (up to insertion of first leaf)**

- 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

**(4) 05.01.03. Leaf: attitude**

- 1 - erect Igloo, Paradiso
- 2 - erect to semi-erect



- 3 - semi-erect Erfurter Zwerg, Fastman
- 4 - semi-erect to horizontal
- 5 - horizontal Isabel, Opaal

**(9) 05.01.04. Leaf: colour (with wax if present) \***

- 1 - green Baltimore, Belot, Lecerf
- 2 - grey green Calisa, Géant de Naples tardif
- 3 - blue green Arbon, Barrier Reef, Ciren

**(10) 05.02. Leaf: intensity of colour (with wax if present) \***

- 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

**(15) 05.02.01. Leaf: undulation of margin**

- 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

**(19) 05.02.02. Curd: shape in longitudinal section \***

- 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

**(21) (G) 05.03. Curd: colour \***

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

**(25) (G) 05.04. Flower: colour \***

- 1 - white Bruce, Ecrin
- 2 - yellow Lecerf

**(26) (G) 05.05. Earliness in spring planting \***

- 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

**(27) (G) 05.06. Earliness in summer planting \***

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

**(28) (G) 05.07. Male sterility \***

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.

Documents to be attached

## 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.**

Documents to be attached



**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

