



## Technical questionnaire

artichoke, cardoon

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:

*Cynara cardunculus* L.

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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 \*

hybrid

cross-pollinated variety

self-pollinated variety

parental 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 parental 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 only be shared with the examination office in charge of the technical examination.

In accordance with Article 88(3) of Regulation 2100/1994 the Office will treat the information under this section as confidential on request of the applicant.

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

Please specify

**04 . 03. . Should the following question on genetic origin and breeding method be treated as confidential? \***

Yes

No

**04 . 04 . Confidentiality justification \****(this question could be confidential)*

Please explain why the information is to be considered as confidential and how its disclosure would harm your commercial interests (included but not limited to business relations, manufacturing secrets, expertise, commercial strategies, intellectual property) under Article 4(2) of Regulation 1049/2001. Since the general rule is transparency, it is in your best interest to provide strong reasons to support your request for confidentiality. If a public access request is received, the Office will evaluate your justifications and decide whether to disclose or not the information.

Please provide detailed explanations \*

**04 . 05 . Information on the breeding method and the genetic origin of the application***(this question could be confidential)*

breeding method

parentage with any other varieties

**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 . Group \***

artichoke

cardoon

**05 . 01 . Leaf: intensity of lobing (3) (G) \***

1 - very weak

2 - very weak to weak

3 - weak

Blanca de Tudela (A), Violet de Provence (A), Plein blanc amélioré Puvis (C)

4 - weak to medium

5 - medium

Ateca (C), Loma (A), Plein blanc amélioré (C)

6 - medium to strong

7 - strong

Opal (A), Vert de Vaulx en Velin (C)

8 - strong to very strong

9 - very strong

**05 . 02 . Cardoon varieties only: Midrib: colour (9) (G) \***

1 - whitish	Plein blanc amélioré
2 - light green	Vert de Vaulx en Velin
3 - medium green	
4 - dark green	
5 - light red	
6 - medium red	
7 - dark red	Rouge d'Alger

**05 . 03 . Midrib: thickness at 35 cm from base (14) (G) \***

1 - very thin	Matterhorn (A), Violet de Camargue (A)
2 - very thin to thin	
3 - thin	Opal (A), Vert de Vaulx en Velin (C)
4 - thin to medium	
5 - medium	Plein blanc amélioré Puvis (C)
6 - medium to thick	
7 - thick	Menuet (A), Plein blanc amélioré (C)
8 - thick to very thick	
9 - very thick	Verde de Peralta (C)

**05 . 04 . Midrib: length of spines (16) (G) \***

1 - absent or very short	Bianco inerma (C), Madrigal (A)
2 - very short to short	
3 - short	Castel (A), Plein blanc amélioré (C)
4 - short to medium	
5 - medium	Vert de Vaulx en Velin (C), Violet de Provence (C)
6 - medium to long	
7 - long	Epineux argenté de Plainpalais (C), Spinoso Sardo (A)
8 - long to very long	
9 - very long	

**05 . 05 . Artichoke varieties only: Main stem: time of beginning of elongation (17) (G) \***

1 - very early

2 - very early to early

3 - early

Blanca de Tudela

4 - early to medium

5 - medium

Opal

6 - medium to late

7 - late

Madrigal

8 - late to very late

9 - very late

**05 . 06 . Artichoke varieties only: Main stem: height from base to central flower head (18.1) (G) \***

1 - very short

2 - very short to short

3 - short

Blanca de Tuleda, Opal

4 - short to medium

5 - medium

Madrigal, Matterhorn

6 - medium to tall

7 - tall

Olympus

8 - tall to very tall

9 - very tall

**05 . 07 . Cardoon varieties only: Main stem: height from base to central flower head (18.2) (G) \***

1 - very short

2 - very short to short

3 - short

4 - short to medium

5 - medium

Plein blanc amélioré Puvis

6 - medium to tall

7 - tall

Ateca

8 - tall to very tall

9 - very tall

**05 . 08 . Main stem: diameter (19) (G) \***

- 1 - very small
- 2 - very small to small
- 3 - small
- 4 - small to medium
- 5 - medium
- 6 - medium to large
- 7 - large
- 8 - large to very large
- 9 - very large

**05 . 09 . Central flower head: length (20) (G) \***

- 1 - very short
- 2 - very short to short
- 3 - short Ateca (C)
- 4 - short to medium
- 5 - medium Imperial Star (A)
- 6 - medium to long
- 7 - long Adir (A)
- 8 - long to very long
- 9 - very long

**05 . 10 . Central flower head: diameter (21) (G) \***

- 1 - very small
- 2 - very small to small
- 3 - small Ateca (C)
- 4 - small to medium
- 5 - medium
- 6 - medium to large
- 7 - large Matterhorn (A)
- 8 - large to very large
- 9 - very large

**05 . 11 . Artichoke varieties only: Central flower head: shape in longitudinal section (22) (G) \***

1 - triangular	Violet de Provence
2 - ovate	Madrigal, Opal
3 - oblong	Chrysanthème
4 - circular	
5 - oblate	

**05 . 12 . Artichoke varieties only: Outer bract: violet colour on external side (30) (G) \***

1 - absent or very weak	Harmony
2 - weak	Violet de Provence
3 - medium	Chrysanthème
4 - strong	Concerto, Salambo
5 - very strong	Velours

**05 . 13 . Outer bract: thickness at base (39) (G) \***

1 - thin	
2 - medium	Blanc hyérois, Imperial Star, Popvert
3 - thick	Pètre

**05 . 14 . Plant: number of lateral heads on main stem (40) (G) \***

1 - very few	
2 - very few to few	
3 - few	Blanc hyérois
4 - few to medium	
5 - medium	Salambo
6 - medium to many	
7 - many	Chrysanthème
8 - many to very many	
9 - very many	Cynamed

**05 . 15 . Artichoke varieties only: Male sterility (41) (G) \***

1 - absent	Blanca de Tudela
9 - present	

**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? \***

Yes, specify

No

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

Yes, specify

No

**07 . 04 . Photo**

It is highly recommended to provide pictures. Otherwise, the organisation of the technical examination will be rendered less efficient, with the risk of an additional year of technical examination at the costs of the applicant.

**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 . 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