

Technical questionnaire

Cynara cardunculus L./ *Cynara cardunculus* var. *scolymus* L.

Artichoke and Cardoon

Version 11 - Publication date: 12/06/2024

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

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. Species *

- 1 - artichoke

- 2 - cardoon

(1) 05.00.01. Plant: height *

- 1 - very short
- 2 - very short to short
- 3 - short
- 4 - short to medium
- 5 - medium
- 6 - medium to long
- 7 - long
- 8 - long to very long
- 9 - very long

(3) (G) 05.01. Leaf: intensity of lobing *

- 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

(14) (G) 05.02. Midrib: thickness at 35 cm from base *

- 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)

(16) (G) 05.03. Midrib: length of spines *



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

(19) (G) 05.04. Main stem: diameter *

- 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

(20) (G) 05.05. Central flower head: length *

- | | |
|--|-------------------|
| <input type="checkbox"/> 1 - very short | |
| <input type="checkbox"/> 2 - very short to short | |
| <input type="checkbox"/> 3 - short | Ateca (C) |
| <input type="checkbox"/> 4 - short to medium | |
| <input type="checkbox"/> 5 - medium | Imperial Star (A) |
| <input type="checkbox"/> 6 - medium to long | |
| <input type="checkbox"/> 7 - long | Adir (A) |
| <input type="checkbox"/> 8 - long to very long | |
| <input type="checkbox"/> 9 - very long | |

(21) (G) 05.06. Central flower head: diameter *

- | | |
|--|-----------|
| <input type="checkbox"/> 1 - very small | |
| <input type="checkbox"/> 2 - very small to small | |
| <input type="checkbox"/> 3 - small | Ateca (C) |
| <input type="checkbox"/> 4 - small to medium | |



- 5 - medium
- 6 - medium to large
- 7 - large Matterhorn (A)
- 8 - large to very large
- 9 - very large

(23) 05.06.01. Central flower head: shape of tip *

- 1 - acute
- 2 - rounded
- 3 - flat
- 4 - depressed

(32) 05.06.02. Outer bract: shape of apex *

- 1 - acute
- 2 - flat
- 3 - emarginate

(39) (G) 05.07. Outer bract: thickness at base *

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

(40) (G) 05.08. Plant: number of lateral heads on main stem *

- 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

(17) (G) 05.09. Artichoke varieties only: Main stem: time of beginning of elongation

- 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

(18.1) (G) 05.10. Artichocke varieties only: Main stem: height from base to central flower head

- 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

(22) (G) 05.11. Artichoke varieties only: Central flower head: shape in longitudinal section

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

(30) (G) 05.12. Artichoke varieties only: Outer bract: violet colour on external side

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

(41) (G) 05.13. Artichoke varieties only: Male sterility

- 1 - absent Blanca de Tudela
- 9 - present

(9) (G) 05.14. Cardoon varieties only: Midrib: colour



- 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

(18.2) (G) 05.15. Cardoon varieties only: Main stem: height from base to central flower head

- 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

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 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

