

Technical questionnaire

Daucus carota L.

Carrot

Version 11 - Publication date: 16/07/2024

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

05 . Characteristics

(the number in brackets refers to the corresponding characteristic in the CPVO Technical Protocol; please mark the state of expression which best corresponds).

(3) (G) 05.01. Leaf: length (including petiole) *

- 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

(5) 05.02. Leaf: intensity of green colour *

- 1 - very light
- 2 - very light to light
- 3 - light
- 4 - light to medium
- 5 - medium
- 6 - medium to dark
- 7 - dark
- 8 - dark to very dark
- 9 - very dark

(7) (G) 05.03. Root: length *

- 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

(8) (G) 05.04. Root: width *

- 1 - very narrow
- 2 - very narrow to narrow
- 3 - narrow
- 4 - narrow to medium
- 5 - medium
- 6 - medium to broad
- 7 - broad



- 8 - broad to very broad
- 9 - very broad

(10) (G) 05.05. Root: shape in longitudinal section *

- 1 - circular Parijse Markt 2, Parijse Markt 3
- 2 - obovate
- 3 - obtriangular (conical) Chantenay, De Colmar à cœur rouge 2
- 4 - narrow obtriangular Imperator, De Colmar à cœur rouge 3
- 5 - narrow obtriangular to narrow oblong Maestro
- 6 - narrow oblong (cylindrical) Amsterdam 2, Berlikumer 2, Berlikumer 3, Nantaise améliorée 5, Touchon

(12) 05.06. Root: shape of shoulder *

- 1 - flat De Colmar à cœur rouge 2
- 2 - flat to rounded Parijse Markt 2
- 3 - rounded
- 4 - rounded to conical
- 5 - conical Touchon

(13) (G) 05.07. Root: tip (when fully developed) *

- 1 - blunt Berlikumer 3
- 2 - slightly pointed Mello Yello
- 3 - strongly pointed Allred, Orbit

(14) (G) 05.08. Root: external colour *

- 1 - white White Satin
- 2 - yellow Mello Yello
- 3 - orange Bingo, Goliath, Karotan, Pinocchio, Tancar
- 4 - pinkish red Nutri-red
- 5 - red Pulsor
- 6 - purple Purple Haze

(15) 05.09. Excluding varieties with white external root colour: Root: intensity of external colour *

- 1 - very light
- 2 - very light to light
- 3 - light



- 4 - light to medium
- 5 - medium
- 6 - medium to dark
- 7 - dark
- 8 - dark to very dark
- 9 - very dark

(19) 05.09.01. Root: diameter of core relative to total 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) 05.10. Root: colour of core *

- | | |
|--|--|
| <input type="checkbox"/> 1 - white | White Satin |
| <input type="checkbox"/> 2 - yellow | Jaune de Lobberich, Pariser Markt |
| <input type="checkbox"/> 3 - orange | Nantaise améliorée 2, Nantaise améliorée 3 |
| <input type="checkbox"/> 4 - pinkish red | |
| <input type="checkbox"/> 5 - red | Nutri-red |
| <input type="checkbox"/> 6 - purple | Afghan purple, Black Deshi |

(22) 05.10.1. Root: colour of cortex *

- 1 - white
- 2 - yellow
- 3 - orange
- 4 - pinkish red
- 5 - red
- 6 - purple

(28) 05.10.2. Root: time of coloration of tip *

- 1 - very early
- 2 - very early to early
- 3 - early



- 4 - early to medium
- 5 - medium
- 6 - medium to late
- 7 - late
- 8 - late to very late
- 9 - very late

(28) 05.10.3. Root: time of coloration of tip *

Comparable with the variety: *

(30) (G) 05.11. Plant: proportion of male sterile plants *

- 1 - absent or very low Nantaise améliorée 2, Touchon
- 2 - intermediate
- 3 - high Nanco, Tino

(31) (G) 05.12. Plant: type of male sterility *

- 1 - brown anthers
- 2 - petaloid anthers

06 . Similar varieties and differences from these varieties

Please note that the information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing.

06.01. Are there any similar variety(ies) known? *

- Yes
- No

06.02. Similar varieties and differences from these varieties: *

Denomination of similar variety	Characteristic in which the similar variety is different	State of expression of similar variety	State of expression of candidate variety

07 . Additional information which may help to distinguish the variety**07.01. Resistance to pests and diseases ***

- Yes, specify



- No

07.02. Special conditions for the examination of the variety

07.02.01. Type of cultivation *

- 1 - in the open
- 2 - under plastic

07.02.02. Season *

- 1 - summer
- 2 - winter

07.02.03. Type *

- 1 - carrot
- 2 - fodder carrot

07.02.04. Carrot: type *

- 1 - Parisian Market
- 2 - Amsterdam Bak
- 3 - Nantes
- 4 - Berlikumer
- 5 - Flakkese
- 6 - Emperor
- 7 - Chantenay
- 8 - Touchon
- 9 - Karotan
- 10 - other (please specify)

07.02.05. Other conditions: *

- 1 - yes (please specify):
- 2 - No

07.03. Other information *



1 - yes (please specify):

2 - No

08 . GMO-information requested

08.01. The variety represents a genetically modified organism (GMO) within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001 which requires authorization for release in the environment. *

Yes

No

08.02. If yes, has such authorization been obtained? *

Yes

No

08.03. If yes, please attach a copy of such an authorization *

Documents to be attached

08.04. Is it an organic variety in accordance with EU Organic Regulation No 2018/418? The variety must be bred with a biological breeding purpose. *

Yes

Please indicate on the TQ at chapter 07.03 on which characteristics the variety is less uniform.

No

08.05. Please, attach such a proof that the variety is produced or bred organically (e.g. by attaching an organic certificate from Skal to the application). *

Documents to be attached

