



## Technical questionnaire

### Carrot

#### Version 11

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:

*Daucus carota* L.

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 \***

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

**05 . 01 . Leaf: length (including petiole) (3) (G) \***

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

**05 . 02 . Leaf: intensity of green colour (5) \***

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

**05 . 03 . Root: length (7) (G) \***

- 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

**05 . 04 . Root: width (8) (G) \***

- 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

**05 . 05 . Root: shape in longitudinal section (10) (G) \***

- |  |  |
|--|--|
| 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 |

**05 . 06 . Root: shape of shoulder (12) \***

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

**05 . 07 . Root: tip (when fully developed) (13) (G) \***

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

**05 . 08 . Root: external colour (14) (G) \***

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

**05 . 09 . Excluding varieties with white external root colour: Root: intensity of external colour (15) \***

- 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

**05 . 09.01 . Root: diameter of core relative to total diameter (19) \***

- 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 . 10 . Root: colour of core (20) \***

1 - white	White Satin
2 - yellow	Jaune de Lobberich, Pariser Markt
3 - orange	Nantaise améliorée 2, Nantaise améliorée 3
4 - pinkish red	
5 - red	Nutri-red
6 - purple	Afghan purple, Black Deshi

**05 . 10.1 . Root: colour of cortex (22) \***

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

**05 . 10.2 . Root: time of coloration of tip (28) \***

- 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

**05 . 10.3 . Root: time of coloration of tip (28) \***

Comparable with the variety: \*

**05 . 11 . Plant: proportion of male sterile plants (30) (G) \***

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

**05 . 12 . Plant: type of male sterility (31) (G) \***

- 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

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**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 \***

**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
- No

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

**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 ). \***

**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