

## Technical questionnaire

***Daucus carota* L.**

**Carrot**

**Version 10**

*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

#### **04.02. 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 \***

- |   |                                     |
|---|-------------------------------------|
| <input type="checkbox"/> 1 - circular                             | Parijse Markt 2, Parijse Markt 3    |
| <input type="checkbox"/> 2 - obovate                              |                                     |
| <input type="checkbox"/> 3 - obtriangular (conical)               | Chantenay, De Colmar à cœur rouge 2 |
| <input type="checkbox"/> 4 - narrow obtriangular                  | Imperator, De Colmar à cœur rouge 3 |
| <input type="checkbox"/> 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 - Parijse Markt
- 2 - Amsterdamse Bak
- 3 - Nantes
- 4 - Berlikumer
- 5 - Flakkese
- 6 - Imperator
- 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
- 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 ). \***

Documents to be attached