



Technical questionnaire

carrot

Version 12

Mandatory fields or sections are marked with an asterisk (*)

01 . Botanical taxon: name of the genus, species or sub-species to which the variety belongs:

Daucus carota L.

02 . Application code:

For office use only

03 . Breeder's reference

Breeder's Ref.

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

1 - very short	Mokum, Mignon
2 - very short to short	
3 - short	Amsterdam 2, Amsterdam 3
4 - short to medium	
5 - medium	Juwarot, Nantaise améliorée 2
6 - medium to long	
7 - long	Chantenay, Chantenay à cœur rouge 2
8 - long to very long	
9 - very long	De Colmar à cœur rouge 2, Rothild

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

1 - very light

2 - very light to light

3 - light

Adelaide, Leonor

4 - light to medium

5 - medium

Amsterdam 2, Amsterdam 3

6 - medium to dark

7 - dark

Rothild

8 - dark to very dark

9 - very dark

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

1 - very short

Parijse Markt 2, Parijse Markt 3

2 - very short to short

3 - short

Chantenay

4 - short to medium

5 - medium

Nantaise améliorée 2, Nantaise améliorée 3

6 - medium to long

7 - long

Berlikumer 2, Berlikumer 3

8 - long to very long

9 - very long

Lange Stompe Winter

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

1 - very narrow

2 - very narrow to narrow

3 - narrow

Amsterdam 2, Amsterdam 3

4 - narrow to medium

5 - medium

Nantaise améliorée 2, Nantaise améliorée 3

6 - medium to broad

7 - broad

De Colmar à cœur rouge 2, Parijse Markt 2, Parijse Markt 3

8 - broad to very broad

9 - very broad

05 . 05 . Root: ratio length/width (9)

1 - very small	Parijse Markt 3, ParmexPlease indicate the ratio
2 - very small to small	Please indicate the ratio
3 - small	Courte améliorée à forcerPlease indicate the ratio
4 - small to medium	Please indicate the ratio
5 - medium	ChantenayPlease indicate the ratio
6 - medium to large	Please indicate the ratio
7 - large	Nantaise améliorée 2, Nantaise améliorée 3Please indicate the ratio
8 - large to very large	Please indicate the ratio
9 - very large	Amsterdam 2Please indicate the ratio

05 . 06 . Root: shape in longitudinal section (10) (G) *

1 - circular	Parisje Markt 2, Parijse Markt 3
2 - obovate	
3 - medium obtriangular	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	Amsterdam 2, Berlikumer 2, Berlikumer 3, Nantaise améliorée 3, Touchon

05 . 07 . Root: shape of shoulder (12) *

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

05 . 08 . Root: tip (when fully developed) (13) (G) *

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

05 . 09 . 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 . 10 . Excluding varieties with white external root colour: Root: intensity of external colour (15) *

1 - very light	
2 - very light to light	
3 - light	Bingo, Mello Yello, Tancar
4 - light to medium	
5 - medium	Goliath, Nutri-red
6 - medium to dark	
7 - dark	Karotan, Pinocchio, Purple Haze
8 - dark to very dark	
9 - very dark	

05 . 11 . Root: diameter of core relative to total diameter (19) *

1 - very small	Amsterdam 2, Amsterdam 3, Tourino
2 - very small to small	
3 - small	Nantaise améliorée 2, Nantaise améliorée 3
4 - small to medium	
5 - medium	Berlikumer 2, Berlikumer 3
6 - medium to large	
7 - large	De Colmar à cœur rouge 2
8 - large to very large	
9 - very large	Giganta

05 . 12 . 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 . 13 . Root: colour of cortex (22) *

1 - white	White Satin
2 - yellow	Mello Yello
3 - orange	Allred, Carlo
4 - pinkish red	
5 - red	Nutri-red
6 - purple	Afghan purple, Black Deshi

05 . 14 . Varieties with blunt tip only: Root: time of development of rounded tip (27) *

1 - very early	
2 - very early to early	
3 - early	Touchon
4 - early to medium	
5 - medium	Nantaise améliorée 2, Nantaise améliorée 3, Tiana
6 - medium to late	
7 - late	Bureau, Nantaise améliorée 7, Tancar
8 - late to very late	
9 - very late	

05 . 15 . Root: time of coloration of tip (28) *

1 - very early	Parijse Markt 3
2 - very early to early	
3 - early	Amsterdam 2, Amsterdam 3
4 - early to medium	
5 - medium	Nantaise améliorée 2, Nantaise améliorée 3
6 - medium to late	
7 - late	De Colmar à coeur rouge 2, Touchon
8 - late to very late	
9 - very late	Goliath
not applicable	

05 . 16 . Plant: proportion of male sterile plants (31) (G) *

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

05 . 17 . Plant: type of male sterility (32) (G) *

1 - brown anther	Nanco
2 - petaloid anther	Tino

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 *

07 . 03.01 . Carrot types *

Parijse Markt

Amsterdam

Nantaise améliorée

Berlikumer

De Colmar à coeur rouge (synonym Flakkese)

Imperator

Chantenay

Touchon

Karotan

other

Please specify

07 . 03.02 . Other information *

Yes, specify

No

07 . 04 . Photo

It is highly recommended to provide pictures (up to five). 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. Full guidance on the picture quality can be found here

07 . 04.01 . Details of the photo(s)

Place and conditions under which the material shown in the photo was grown (e.g. plants grown in the greenhouse vs. grown in the open field)

Date of the photo(s) (month and year)

07 . 04.02 . Attached photo(s)

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