

Technical questionnaire

Radish

Version 11

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:

Raphanus sativus L. var. *sativus*

Other species (please specify)

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 *

(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

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 . 00 . Explanation concerning grouping of *Raphanus sativus* L. into N-type and S-type

Grouping for varieties to S-type and N-type varieties is based on the time of harvest maturity:

Harvest maturity

Example variety

N-type varieties (Black radish, Oriental radish)

> 60 days

Oshin (N), Sutong (N), Miyashige nagabuto (N)

S-type varieties (Radish, Garden radish, European radish, Chinese small radish, Western radish)

< 35 days

Flamboyant 2 (S)

Those varieties of which the harvest maturity falls between 35 and 60 days should be classified in a next step taking into account length and diameter of the radish as follows:

Length of radish (for elongated varieties)

Diameter of radish (for rounded varieties)

N-type varieties (Black radish, Oriental radish)

>15 cm

>3.5 cm

S-type varieties (Radish, Garden radish, European radish, Chinese small radish, Western radish)

<10 cm

<2.5 cm

Varities which fall still between N-type varieties and S-type varieties should be tested in both groups.

05 . 01 . Grouping for varieties into N-type or S-type *

1 - only S-type varieties

2 - only N-type varieties

05 . 02 . Only S-type varieties: Leaf: length (4) (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 . 03 . Leaf blade: colour (7) *

1 - yellow green

2 - light green

3 - medium green

4 - dark green

5 - light grey green

6 - medium grey green

7 - dark grey green

05 . 04 . Leaf blade: number of lobes (8) (G) *

1 - absent or very few

2 - very few to few

3 - few

4 - few to medium

5 - medium

6 - medium to many

7 - many

8 - many to very many

9 - very many

05 . 05 . Petiole: anthocyanin coloration (10) (G) *

1 - absent or very weak

2 - very weak to weak

3 - weak

4 - weak to medium

5 - medium

6 - medium to strong

7 - strong

8 - strong to very strong

9 - very strong

05 . 06 . Only S-type varieties:Radish: length (14) (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 . 07 . Only S-type varieties:Radish: diameter (16) (G) *

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 . 08 . Radish: shape (17) (G) *

- 1 - narrow triangular
- 2 - medium triangular
- 3 - ovate
- 4 - acicular
- 5 - oblong
- 6 - narrow elliptic
- 7 - medium elliptic
- 8 - circular
- 9 - medium oblate
- 10 - narrow oblate
- 11 - obovate
- 12 - bell shaped

05 . 09 . Radish: number of colours of skin (excluding non-thickened root) (21) *

- 1 - one
- 2 - two

05 . 10 . Radish: colour of skin of stem end (22) (G) *

- 1 - white
- 2 - yellowish white
- 3 - yellow
- 4 - brown
- 5 - light green
- 6 - medium green
- 7 - dark green
- 8 - pink
- 9 - dark pink red
- 10 - red
- 11 - purple
- 12 - violet
- 13 - black

05 . 11 . Non-thickened root: colour (23) (G) *

- 1 - white
- 2 - yellowish white
- 3 - yellow
- 4 - brown
- 5 - light green
- 6 - medium green
- 7 - dark green
- 8 - pink
- 9 - dark pink red
- 10 - red
- 11 - purple
- 12 - violet
- 13 - black

05 . 12 . Only varieties with Radish: Number of colours of skin: two (25) (G) *

- 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 . 13 . Time of harvest maturity (28) (G) *

- 1 - S-type early
- 2 - S-type medium
- 3 - S-type late
- 4 - N-type very early
- 5 - N-type early
- 6 - N-type medium
- 7 - N-type late
- 8 - N-type very late

06 . Similar varieties and differences from these varieties**06 . 1 . Are there any similar variety(ies) known? ***

1 - yes

2 - no

06 . 2 . 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 ***

1 - yes (please specify):

2 - no

07 . 02 . In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? *

1 - yes (please specify):

2 - no

07 . 03 . Are there any special conditions for growing the variety or conducting the examination? *

1 - yes (please specify):

2 - no

07 . 04 . Other information ***07 . 04.01 . Main use ***

1 - in glasshouse

2 - in the open

07 . 04.01.01 . Growing season *

1 - spring

2 - summer

3 - autumn

4 - winter

07 . 04.02 . Other information *

1 - yes (please specify):

2 - no

07 . 05 . Photo

It is recommended to provide a representative colour image of the variety to accompany the Technical Questionnaire.

08 . GMO-information requested

08 . a . 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: *

1 - yes

2 - no

08 . b . If yes, has such authorization been obtained? *

1 - yes

2 - no

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

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