

Technical questionnaire

Radish, black radish

Version 9

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*

Raphanus sativus L. var. *niger* (Miller) S. Kerner

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: *

- 1 - hybrid
- 2 - cross-pollinated variety
- 3 - self-pollinated variety
- 4 - parent line

04 . 02 . Method of propagation of the variety: *

- 1 - seed propagated
- 2 - vegetatively propagated

04 . 03 . Seed propagated varieties: *

(this question could be confidential)

- 1 - cross-pollination
- 2 - hybrid
- 3 - other

04 . 04 . Vegetative propagated varieties *

- 1 - cuttings
- 2 - in vitro propagation
- 3 - other (state method):

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 . 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 . 11 . 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 . 12 . 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