

Technical questionnaire

Raphanus sativus L. var. *sativus*

Radish

Version 11 - Publication date: 12/06/2024

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

04.01.01. Parental line use *

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 *

- 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).

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

Varieties 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

(4) (G) 05.02. Only S-type varieties:

Leaf: 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



(7) 05.03. Leaf blade: colour *

- 1 - yellow green
- 2 - light green
- 3 - medium green
- 4 - dark green
- 5 - light grey green
- 6 - medium grey green
- 7 - dark grey green

(8) (G) 05.04. Leaf blade: number of lobes *

- 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

(10) (G) 05.05. Petiole: anthocyanin coloration *

- 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

(14) (G) 05.06. Only S-type varieties:

Radish: 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

(16) (G) 05.07. Only S-type varieties:

Radish: 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

(17) (G) 05.08. Radish: shape *

- 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

**(21) 05.09. Radish: number of colours of skin
(excluding non-thickened root) ***

- 1 - one
- 2 - two



(22) (G) 05.10. Radish: colour of skin of stem end *

- 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

(23) (G) 05.11. Non-thickened root: colour *

- 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

(25) (G) 05.12. Only varieties with Radish: Number of colours of skin: two *

- 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

(28) (G) 05.13. Time of harvest maturity*

- 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.

Documents to be attached

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:

*



Breeder's ref.: undefined

- 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 *

Documents to be attached

