

## Technical questionnaire

turnip

CPVO/TQ-037

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

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

*Brassica rapa* L. var. *rapa* L.

*Brassica rapa* L. subsp. *nipposinica* (L. H. Bailey) Hanelt × *Brassica rapa* L. subsp. *narinosa* (L. H. Bailey) Hanelt

Other species (please specify)

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**02 . Application code:**

For office use only

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**03 . Breeder's reference:**

Breeder's Ref.

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**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 . 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 of the variety to be indicated**

(the number in brackets refers to the corresponding characteristic in the national guidelines; please mark the state of expression which best corresponds.)

**05 . 01 . Ploidy \***

2 - diploid	Milan White
4 - tetraploid	Taronda

**05 . 02 . Leaf: intensity of green colour \***

1 - very light	
2 - very light to light	
3 - light	Leielander
4 - light to medium	
5 - medium	Bency
6 - medium to dark	
7 - dark	Frisia
8 - dark to very dark	
9 - very dark	Aberdeen Green Top Yellow

**05 . 03 . Leaf: type \***

1 - entire	Polybra
2 - lobed	Samson

**05 . 04 . Leaf: length \***

1 - very short	
2 - very short to short	
3 - short	Milan White Forcing
4 - short to medium	
5 - medium	Tokyo Cross
6 - medium to long	
7 - long	Tyfon
8 - long to very long	
9 - very long	



**05 . 05 . Root: position in soil \***

1 - very shallow	Milan White Forcing
2 - very shallow to shallow	
3 - shallow	Oasis
4 - shallow to medium	
5 - medium	Agressa
6 - medium to deep	
7 - deep	Noir long
8 - deep to very deep	
9 - very deep	Teltower Kleine

**05 . 06 . Root: thick cork layer around skin \***

1 - absent	Bency
9 - present	Noir long

**05 . 07 . Root: colour of skin above soil \***

1 - white	Tokyo Cross
2 - green	Leielander
3 - yellow	Topaz
4 - orange	Golden Ball
5 - bronze	Grandessa
6 - scarlet	Scarlet Ball
7 - reddish purple	Bency
8 - bluish purple	The Bruce

**05 . 08 . Root: colour of skin below ground \***

1 - white
2 - yellow
3 - red
4 - purple

**05 . 09 . Root: colour of flesh \***

1 - white	Agressa
2 - yellow	Teutonengold



**05 . 10 . Root: shape in longitudinal section \***

1 - transverse narrow elliptic	Platte Witte Mei
2 - transverse elliptic	Milan White
3 - circular	Rondo
4 - obovate	Alwi
5 - square	Champion Green Top Yellow
6 - broad oblong	Rekord
7 - narrow oblong	Long d'Alsace
8 - obtriangular	Sirius

**05 . 11 . Root: length \***

1 - very short	Milan White
2 - very short to short	
3 - short	The Wallace
4 - short to medium	
5 - medium	Dynamo
6 - medium to long	
7 - long	Taronda
8 - long to very long	
9 - very long	Alander

**05 . 12 . Root: diameter (at widest point) \***

1 - very small	
2 - very small to small	
3 - small	Hakutaka
4 - small to medium	
5 - medium	Rondo
6 - medium to large	
7 - large	Massif
8 - large to very large	
9 - very large	

**05 . 13 . Root: position at widest point \***

3 - above middle	Marteau
5 - at middle	Taronda
7 - below middle	Blanc dur d'hiver



**05 . 14 . Root: shape of top \***

1 - strongly indented	
3 - indented	Milan White Forcing
5 - flat	Milan White
7 - raised	Taronda
9 - strongly raised	Agressa

**05 . 15 . Root: shape of base \***

1 - indented	Milan White Forcing
3 - truncate	Milan White
5 - rounded	Frisia
7 - obtuse	Sirius
9 - pointed	Noir long

**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 . Resistance to pests and diseases \***

Yes, specify

No



**07 . 02 . In addition to the information provided in sections 05 and 06, are there any additional characteristics which may help to distinguish the variety? \***

Yes, specify

No

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

**07 . 03.01 . Main use \***

root vegetable

stubble or forage turnip

**07 . 03.02 . Time of sowing \***

spring

summer

winter

**07 . 03.03 . Are there any special conditions for growing the variety or conducting the examination? \***

Yes, specify

No

**07 . 04 . Other information \***

Yes, specify

No

**07 . 05 . Photo**

It is highly recommended to provide a representative colour image of full grown plant(s) of the variety to accompany the Technical Questionnaire.

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## **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 . Tissue culture \*

Yes, specify

No

### 09 . 04 . Other factors \*

Yes, specify

No

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## 10 . Possible place of the technical examination

In case the CPVO needs to arrange a technical examination for this candidate variety, there might be more than one examination office entrusted by the CPVO suitable to grow your variety. In this case, the Office will decide on the place of the technical examination but you might wish to express here a preference in respect of an examination office. The available entrusted examination offices for that species can be found in the S3 Gazette under:<http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/entrusted-examination-offices>

You will also find in the S2 Gazette further information about submission of plant material and deadlines for numerous major species:<http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/submission-of-plant-material-s2-publication>

### 10 . 01 . Country where the examination could take place

Country

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**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

