



## Technical questionnaire

### beetroot

#### Version 9

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:

*Beta vulgaris* Garden Beet Group (syn. *Beta vulgaris* L. var. *conditiva* Alef.)

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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 \*

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 . Germity (1) (G) \***

1 - monogerm

Monodet, Monopoly

2 - multigerm

Crosby, Detroit 2

**05 . 02 . Leaf: length (including petiole) (5)**

1 - very short

2 - very short to short

3 - short

Babybeat

4 - short to medium

5 - medium

Boltardy

6 - medium to long

7 - long

Bull's Blood

8 - long to very long

9 - very long

**05 . 03 . Leaf blade: shape (8)**

|                                             |                 |
|---------------------------------------------|-----------------|
| 1 - very narrow elliptic                    |                 |
| 2 - very narrow elliptic to narrow elliptic |                 |
| 3 - narrow elliptic                         | Cheltenham Mono |
| 4 - narrow elliptic to medium elliptic      |                 |
| 5 - medium elliptic                         | Detroit 2       |
| 6 - medium elliptic to broad elliptic       |                 |
| 7 - broad elliptic                          | Burpee's Golden |
| 8 - broad elliptic to very broad elliptic   |                 |
| 9 - very broad elliptic                     |                 |

**05 . 04 . Leaf blade: colour (9) (G) \***

|                   |                 |
|-------------------|-----------------|
| 1 - mainly green  | Albina Vereduna |
| 2 - green and red | D'Egypte        |
| 3 - mainly red    | Bull's Blood    |

**05 . 05 . Leaf blade: intensity of green colour (10)**

|                         |          |
|-------------------------|----------|
| 1 - very light          |          |
| 2 - very light to light |          |
| 3 - light               | Solist   |
| 4 - light to medium     |          |
| 5 - medium              | Regala   |
| 6 - medium to dark      |          |
| 7 - dark                | Monopoly |
| 8 - dark to very dark   |          |
| 9 - very dark           |          |

**05 . 06 . Root: shape in longitudinal section (17) (G) \***

|                                |                 |
|--------------------------------|-----------------|
| 1 - transverse narrow elliptic | D'Egypte        |
| 2 - transverse medium elliptic | Crosby          |
| 3 - circular                   | Detroit 2       |
| 4 - obovate                    | Albina Vereduna |
| 5 - narrow oblong              | Cylindra        |
| 6 - very narrow obovate        | Cheltenham Mono |

**05 . 07 . Root: length (18) \***

|                         |           |
|-------------------------|-----------|
| 1 - very short          |           |
| 2 - very short to short |           |
| 3 - short               | D'Egypte  |
| 4 - short to medium     |           |
| 5 - medium              | Detroit 2 |
| 6 - medium to long      |           |
| 7 - long                | Forono    |
| 8 - long to very long   |           |
| 9 - very long           |           |

**05 . 08 . Root: external colour (23) (G) \***

|                    |                 |
|--------------------|-----------------|
| 1 - white          | Albina Vereduna |
| 2 - yellow         | Burpee's Golden |
| 3 - reddish purple | Detroit 2       |

**05 . 09 . Root: main colour of flesh (24) \***

|                   |                 |
|-------------------|-----------------|
| 1 - white         | Albina Vereduna |
| 2 - yellow orange | Burpee's Golden |
| 3 - red           | Detroit 2       |
| 4 - purple        | Cylindra        |

**05 . 10 . Root: prominence of rings (26)**

|                           |               |
|---------------------------|---------------|
| 1 - absent or very weak   | Akela, Larka  |
| 2 - very weak to weak     |               |
| 3 - weak                  | Forono        |
| 4 - weak to medium        |               |
| 5 - medium                | Pacemaker III |
| 6 - medium to strong      |               |
| 7 - strong                | Bull's Blood  |
| 8 - strong to very strong |               |
| 9 - very strong           | Chioggia      |

**05 . 11 . Bolting tendency (from an early sowing) (27) (G) \***

|                    |                  |
|--------------------|------------------|
| 1 - absent or weak | Boltardy, Dragon |
| 2 - medium         | Pronto           |
| 3 - strong         | Pacemaker III    |

**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 |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                                   |                                                                                         |                                                                               |                                                                             |
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**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 . Main use \***

(baby) leaf

baby beet

fresh market

industry

other

**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)**

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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.**

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**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