

## Technical questionnaire

***Allium cepa* (Cepa Group), *Allium cepa* (Aggregatum Group) and *Allium oschaninii* O. Fedtsch. and hybrids between them**

**onion, echalion, shallot, grey shallot**

**Version 11 - Publication date: 27/09/2024**

*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

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#### **04.02. Method of propagation of the variety \***

- seed propagated
- vegetatively propagated

#### **04.03. Other information on genetic origin and breeding method**

Please specify

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### **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)

#### **05.00. Group \***

- onion
- shallot

**(1) 05.01. Plant: number of leaves per pseudostem \***

- 1 - very few
- 2 - very few to few
- 3 - few SY300 (O)
- 4 - few to medium
- 5 - medium The Kelsae (O)
- 6 - medium to many
- 7 - many Yellow Sweet Spanish (O)
- 8 - many to very many
- 9 - very many

**(3) 05.02. Foliage: waxiness \***

- 1 - absent or very weak
- 2 - very weak to weak
- 3 - weak Yellow Sweet Spanish (O)
- 4 - weak to medium
- 5 - medium Hikeeper (O), Golden Gourmet (S)
- 6 - medium to strong
- 7 - strong Calypso (O), Flevo (O), Santé (S)
- 8 - strong to very strong
- 9 - very strong

**(4) 05.03. Foliage: intensity of green colour \***

- 1 - very light Bretor (S)
- 2 - very light to light
- 3 - light Guimar (O), Yellow sweet spanish (O), Tropix (S)
- 4 - light to medium
- 5 - medium Caribo (O), Texas Grano 502 (O), Golden Gourmet (S)
- 6 - medium to dark
- 7 - dark Hikeeper (O), La Reine (O), Santé (S)



- 8 - dark to very dark
- 9 - very dark

**(10) (G) 05.04. Seed propagated varieties only: Bulb : Tendency to split into bulblets (with dry skin around each bulblet)**

- 1 - absent or very weak Cuisse de Poulet du Poitou (O), Lagos (O)
- 2 - very weak to weak
- 3 - weak
- 4 - weak to medium
- 5 - medium Mirage (S)
- 6 - medium to strong
- 7 - strong Bonilla (S), Creation (S), Longor (S), Mikor (S)
- 8 - strong to very strong
- 9 - very strong Delvad (S), Rox (S), Tropix (S)

**(11) (G) 05.05. Bulb : degree of splitting into bulblets (with dry skin around each bulblet) \***

- 1 - absent or very weak Cuisse de Poulet du Poitou (O)
- 2 - very weak to weak
- 3 - weak
- 4 - weak to medium
- 5 - medium Santé (S)
- 6 - medium to strong
- 7 - strong
- 8 - strong to very strong
- 9 - very strong Giselle (S)

**(12.1) 05.06.01. Onion varieties only: Bulb: size**

- 1 - very small - copy
- 2 - very small to small - copy
- 3 - small - copy
- 4 - small to medium - copy
- 5 - medium - copy Lagos - copy
- 6 - medium to large - copy
- 7 - large - copy The Kelsae - copy



- 8 - large to very large - copy
- 9 - very large - copy

**(12.2) 05.06.02. Shallot varieties only: Bulblet: size**

- 1 - very small - copy
- 2 - very small to small - copy
- 3 - small - copy Atlas - copy
- 4 - small to medium - copy
- 5 - medium - copy Spring Field, Topper - copy
- 6 - medium to large - copy
- 7 - large - copy Delicato, Santé - copy
- 8 - large to very large - copy
- 9 - very large - copy

**(18) (G) 05.07. Bulb/Bulblet: general shape (in longitudinal section) \***

- 1 - elliptic Owa (O), Longor (S)
- 2 - medium ovate Birnförmige (O), Rossa lunga di Firenze (O), Breton (S)
- 3 - broad elliptic Ailsa Craig (O), Beacon (O), Hiball (O), Vigarmor (S)
- 4 - circular Lagos (O), Pikant (S)
- 5 - broad ovate Hysam (O), Arvro (S)
- 6 - broad obovate Lilia (O), Texas Grano 502 (O)
- 7 - rhombic Zittauer gelbe (O)
- 8 - transverse medium elliptic Sturka (O), Stuttgarter Riesen (O), Atlantic (S), Golden Gourmet (S)
- 9 - transverse narrow elliptic Brunswijker (O), De Moissac (O), Paille des vertus (O), Pompei (O)

**(23) (G) 05.08. Bulb/Bulblet: base colour of dry skin \***

- 1 - white La Reine (O), Pompei (O)
- 2 - grey Griselle (S)
- 3 - green
- 4 - yellow Zittauer gelbe (O), Creation (S), Golden Gourmet (S), Topper (S)
- 5 - brown Valenciana Temprana (O), Delicato (S), Mirage (S), Mikor (S), Pikant (S)



- 6 - pink    Colorada de Figueras (O), Rox (S), Santé (S)
- 7 - red    Brunswijker (O), Red Baron (O)

**(25) 05.09. Bulb/Bulblet: hue of colour of dry skin (in addition to base colour) \***

- 1 - absent    Pompei (O)
- 2 - greyish
- 3 - greenish
- 4 - yellowish    Topper (S)
- 5 - brownish    Santé (S)
- 6 - pinkish    Delicato (S)
- 7 - reddish    Mikor (S), Mirage (S), Pikant (S)
- 8 - purplish

**(27) (G) 05.10. Bulb/Bulblet: number of growing points per kg \***

- 1 - very low    Barletta (O), Pompei (O)
- 2 - very low to low
- 3 - low    Cuisse de Poulet du Poitou (O), Figaro (O), Owa (O)
- 4 - low to medium
- 5 - medium    Longor (S), Mirage (S), Prisma (S)
- 6 - medium to high
- 7 - high    Bonilla (S), Creation (S), Mikor (S)
- 8 - high to very high
- 9 - very high    Griselle (S), Rox (S), Tropix (S)

**(28) 05.11. Bulb/Bulblet: dry matter content \***

- 1 - very low    Exhibition (O)  
Please indicate the dry matter content in percentage

- 2 - very low to low    Please indicate the dry matter content in percentage



3 - low

Golden Bear (O), The Kelsae (O)

Please indicate the dry matter content in percentage

4 - low to medium

Please indicate the dry matter content in percentage

5 - medium

Golden Gourmet (S), Topper (S)

Please indicate the dry matter content in percentage

6 - medium to high

Please indicate the dry matter content in percentage

7 - high

Birnförmige (O), Zittauer gelbe (O), Creation (S), Longor (S)

Please indicate the dry matter content in percentage

8 - high to very high

Please indicate the dry matter content in percentage

9 - very high

Griselle (S)

Please indicate the dry matter content in percentage

**(33) 05.12. Onion varieties only: Time of harvest maturity for autumn sown trials (foliage fall-over in 80% of plants)**



1 - very early - copy

Please indicate comparable variety(ies) of your choice - copy

2 - very early to early - copy

Please indicate comparable variety(ies) of your choice - copy

3 - early - copy

La Reine, Sonic  
Please indicate comparable variety(ies) of your choice - copy

4 - early to medium - copy

Please indicate comparable variety(ies) of your choice - copy

5 - medium - copy

Buffalo, Imai Early Yellow, Valenciana Temprana  
Please indicate comparable variety(ies) of your choice - copy

6 - medium to late - copy

Please indicate comparable variety(ies) of your choice - copy

7 - late - copy

Guimar, Senshyu Semi Globe Yellow, Shakespeare  
Please indicate comparable variety(ies) of your choice - copy



- 8 - late to very late - copy

Please indicate comparable variety(ies) of your choice - copy

- 9 - very late - copy

Valencia tardía

Please indicate comparable variety(ies) of your choice - copy

**(34.1) 05.13.01. Onion varieties only: Time of harvest maturity for spring sown trials (foliage fall-over in 80% of plants)**

- 1 - very early - copy

Please indicate comparable variety(ies) of your choice - copy

- 2 - very early to early - copy

Please indicate comparable variety(ies) of your choice - copy

- 3 - early - copy

Buffalo, Golden Bear

Please indicate comparable variety(ies) of your choice - copy

- 4 - early to medium - copy

Please indicate comparable variety(ies) of your choice - copy





- 5 - medium - copy

Piroska

Please indicate comparable variety(ies) of your choice - copy

- 6 - medium to late - copy

Please indicate comparable variety(ies) of your choice - copy

- 7 - late - copy

Beacon

Please indicate comparable variety(ies) of your choice - copy

- 8 - late to very late - copy

Please indicate comparable variety(ies) of your choice - copy

- 9 - very late - copy

Please indicate comparable variety(ies) of your choice - copy

**(34.2) 05.13.02. Shallot varieties only: Time of harvest maturity (foliage fall-over in 80% of plants)**

- 1 - very early - copy

Please indicate comparable variety(ies) of your choice - copy

- 2 - very early to early - copy

Please indicate comparable variety(ies) of your choice - copy



3 - early - copy

Ploumor, Rox

Please indicate comparable variety(ies) of your choice - copy

4 - early to medium - copy

Please indicate comparable variety(ies) of your choice - copy

5 - medium - copy

Creation, Pikant

Please indicate comparable variety(ies) of your choice - copy

6 - medium to late - copy

Please indicate comparable variety(ies) of your choice - copy

7 - late - copy

Golden Gourmet, Santé

Please indicate comparable variety(ies) of your choice - copy

8 - late to very late - copy

Please indicate comparable variety(ies) of your choice - copy

9 - very late - copy

Please indicate comparable variety(ies) of your choice - copy

**(35) 05.14. Time of sprouting during storage \***



- 1 - very early
- 2 - very early to early
- 3 - early Golden Bear (O), The Kelsae (O)
- 4 - early to medium
- 5 - medium Hygro (O), Hyper (O)
- 6 - medium to late
- 7 - late Marion (O)
- 8 - late to very late
- 9 - very late

**(36) (G) 05.15. Male sterility \***

- 1 - absent or very weak Rijnsburger 5 (O)  
Please indicate the percentage of male sterile plants
- 2 - weak Hyduro (O), Creation (S)  
Please indicate the percentage of male sterile plants
- 3 - strong Atlas (S)  
Please indicate the percentage of male sterile plants

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**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. 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. Onion varieties only: Type**

onion set production - copy

silverskin - copy

normal sowing onion - copy

overwintering - copy

other - copy

Please indicate type - copy

**07.03.02. Day length conditions which favour full bulb development \***

short day

semi-short day

semi-long day

long day



**07.03.03. Resistances to pests and diseases \***

Yes, specify

No

**07.03.04. Other information \***

Yes, specify

No

**07.04. Photo**

It is highly recommended to provide pictures. 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.

Documents to be attached

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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.**

Documents to be attached

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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. Tissue culture \***

Yes, specify

No

**09.04. Other factors \***

Yes, specify

No

