Technical questionnaire

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

Onion, echalion, shallot, grey shallot

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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)

(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) 05.01.01. 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) 05.02. 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

Breeder's ref.: undefined

(10) (G) 05.03.01. 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) 05.03.02. 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) 05.04.01. Onion varieties only: Bulb: size

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

(12.2) 05.04.02. Shallot varieties only: Bulblet: size

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

(18) (G) 05.05. 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) 05.06. 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) 05.07. 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) 05.08. 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) 05.09. Bulb/Bulblet: dry matter content *

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

- ○ 4 - low to medium — Please indicate the dry matter content in percentage
- ○ 5 - medium — Please indicate the dry matter content in percentage
- ○ 6 - medium to high — Please indicate the dry matter content in percentage
- ○ 7 - high — Please indicate the dry matter content in percentage
- ○ 8 - high to very high — Please indicate the dry matter content in percentage
- ○ 9 - very high — Please indicate the dry matter content in percentage

(33) 05.10. Onion varieties only: Time of harvest maturity for autumn sown trials (foliage fall-over in 80% of plants)

- ○ 1 - very early — Please indicate comparable variety(ies) of your choice
- ○ 2 - very early to early — Please indicate comparable variety(ies) of your choice

- ○ 3 - early — Please indicate comparable variety(ies) of your choice
- ○ 4 - early to medium — Please indicate comparable variety(ies) of your choice
- ○ 5 - medium — Please indicate comparable variety(ies) of your choice
- ○ 6 - medium to late — Please indicate comparable variety(ies) of your choice
- ○ 7 - late — Please indicate comparable variety(ies) of your choice
- ○ 8 - late to very late — Please indicate comparable variety(ies) of your choice
- ○ 9 - very late — Please indicate comparable variety(ies) of your choice

(34.1) 05.10.01. Onion varieties only: Time of harvest maturity for spring sown trials (foliage fall-over in 80% of plants)

- ○ 1 - very early — Please indicate comparable variety(ies) of your choice

- ○ 2 - very early to early — Please indicate comparable variety(ies) of your choice
- ○ 3 - early — Please indicate comparable variety(ies) of your choice
- ○ 4 - early to medium — Please indicate comparable variety(ies) of your choice
- ○ 5 - medium — Please indicate comparable variety(ies) of your choice
- ○ 6 - medium to late — Please indicate comparable variety(ies) of your choice
- ○ 7 - late — Please indicate comparable variety(ies) of your choice
- ○ 8 - late to very late — Please indicate comparable variety(ies) of your choice
- ○ 9 - very late — Please indicate comparable variety(ies) of your choice

(34.2) **05.10.02. Shallot varieties only: Time of harvest maturity (foliage fall-over in 80% of plants)**

- ○ 1 - very early — Please indicate comparable variety(ies) of your choice

○ 2 - very early to early	Please indicate comparable variety(ies) of your choice
○ 3 - early	Please indicate comparable variety(ies) of your choice
○ 4 - early to medium	Please indicate comparable variety(ies) of your choice
○ 5 - medium	Please indicate comparable variety(ies) of your choice
○ 6 - medium to late	Please indicate comparable variety(ies) of your choice
○ 7 - late	Please indicate comparable variety(ies) of your choice
○ 8 - late to very late	Please indicate comparable variety(ies) of your choice
○ 9 - very late	Please indicate comparable variety(ies) of your choice

(35) 05.10.03. 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) 05.11. Male sterility *

- ○ 1 - absent or very weak — Please indicate the percentage of male sterile plants
- ○ 2 - weak — Please indicate the percentage of male sterile plants
- ○ 3 - strong — 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

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07 . Additional information which may help to distinguish the variety

07.00. Onion varieties only: Type

- ○ onion set production
- ○ silverskin
- ○ normal sowing onion
- ○ overwintering
- ○ other

Please indicate type

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. Resistances to pests and diseases *

- ○ Yes, specify
- ○ No

07.04. Special conditions for testing the variety *

07.04.01. Day length conditions which favour full bulb development *

- ○ short day
- ○ semi-short day
- ○ semi-long day
- ○ long day

07.05. Other information *

- ○ Yes, specify
- ○ No

07.06. 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