

Technical questionnaire

Lactuca sativa L.

lettuce

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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

*

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 UPOV Technical Guidelines, please mark the state of expression which best corresponds).

(1) (G) 05.01. Seed: colour *

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> 1 - white | Verpia |
| <input type="radio"/> 2 - yellow | Durango |
| <input type="radio"/> 3 - brown | Oaklin |
| <input type="radio"/> 4 - black | Kagraner Sommer 2 |

(6) 05.02. Leaf: number of divisions *

- | | |
|--|-------------------------|
| <input type="radio"/> 1 - absent or very few | Fiorella, Lollo rossa |
| <input type="radio"/> 2 - very few to few | |
| <input type="radio"/> 3 - few | Curletta, Rodagio |
| <input type="radio"/> 4 - few to medium | |
| <input type="radio"/> 5 - medium | Ezabel, Jadigon |
| <input type="radio"/> 6 - medium to many | |
| <input type="radio"/> 7 - many | Expedition, Multired 54 |
| <input type="radio"/> 8 - many to very many | |
| <input type="radio"/> 9 - very many | Excite, Ezfrill, Telex |

(11) (G) 05.03. Leaf: anthocyanin coloration *

- | | |
|---|------------------------------|
| <input type="radio"/> 1 - absent or very weak | Clarion |
| <input type="radio"/> 2 - very weak to weak | |
| <input type="radio"/> 3 - weak | Du bon jardinier |
| <input type="radio"/> 4 - weak to medium | |
| <input type="radio"/> 5 - medium | Lollo rossa, Luana |
| <input type="radio"/> 6 - medium to strong | |
| <input type="radio"/> 7 - strong | Merveille des quatre saisons |
| <input type="radio"/> 8 - strong to very strong | |
| <input type="radio"/> 9 - very strong | Iride, Revolution |

(12) 05.04. Leaf: hue of anthocyanin coloration

- | | |
|------------------------------------|----------------------------|
| <input type="radio"/> 1 - reddish | Lollo rossa |
| <input type="radio"/> 2 - purplish | Iride |
| <input type="radio"/> 3 - brownish | Luana, Maravilla de Verano |

(13) 05.05. Leaf: area covered by anthocyanin coloration *

- | | |
|--------------------------------------|----------------------|
| <input type="radio"/> 1 - very small | Steirer Krauthauptel |
|--------------------------------------|----------------------|



- 2 - very small to small
- 3 - small Diablo
- 4 - small to medium
- 5 - medium Luana
- 6 - medium to large
- 7 - large Merveille des quatre saisons
- 8 - large to very large
- 9 - very large Bijou, Revolution

(14) 05.06. Leaf: colour *

- 1 - green Verpia
- 2 - yellowish green Dorée de printemps
- 3 - greyish green Celtuce, Du bon jardinier
- not applicable

(15) 05.07. Leaf: intensity of green colour *

- 1 - very light
- 2 - very light to light
- 3 - light Blonde maraîchère, Lollo Bionda
- 4 - light to medium
- 5 - medium Aquarel, Clarion
- 6 - medium to dark
- 7 - dark Expedition, Verpia
- 8 - dark to very dark
- 9 - very dark Pascal, Verdatrix
- not applicable

(34) 05.08. Time of harvest maturity

- 1 - very early Gotte jaune d'or
- 2 - very early to early
- 3 - early Pantika, Sucrine
- 4 - early to medium
- 5 - medium Clarion



- 6 - medium to late
- 7 - late Blonde maraîchère, Calmar
- 8 - late to very late
- 9 - very late El Toro, Pinokkio

(35) (G) 05.09. Time of beginning of bolting *

- 1 - very early Blonde à couper améliorée
Please indicate comparable variety(ies) of your choice

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

- 3 - early Gotte à gaine blanche
Please indicate comparable variety(ies) of your choice

- 4 - early to medium Please indicate comparable variety(ies) of your choice

- 5 - medium Pantika
Please indicate comparable variety(ies) of your choice

- 6 - medium to late Please indicate comparable variety(ies) of your choice

- 7 - late Hilde II
Please indicate comparable variety(ies) of your choice



8 - late to very late

Please indicate comparable variety(ies) of your choice

9 - very late

Erika, Toscanas

Please indicate comparable variety(ies) of your choice

(48) (G) 05.10. Resistance to *Bremia lactucae* (BI) isolate BI: 29EU *

1 - absent

Argelès

9 - present

Balesta

(49) 05.11. Resistance to *Bremia lactucae* (BI) isolate BI: 30EU *

1 - absent

Argelès, Colorado

9 - present

Balesta

not tested

(50) 05.12. Resistance to *Bremia lactucae* (BI) isolate BI: 31EU *

1 - absent

Colorado, RYZ910457

9 - present

Argelès, Balesta

not tested

(51) 05.13. Resistance to *Bremia lactucae* (BI) isolate BI: 33EU *

1 - absent

Kibrille, RYZ2164

9 - present

RYZ910457

not tested

(52) 05.14. Resistance to *Bremia lactucae* (BI) isolate BI: 35EU *

1 - absent

Design, Kibrille

9 - present

Bartoli

not tested

05.15. Resistance to *Bremia lactucae* (BI) isolate BI: 36EU *

1 - absent

Bartoli, RYZ2164

9 - present

Design, Kibrille



- not tested

05.16. Resistance to *Bremia lactucae* (BI) isolate BI: 38EU *

- 1 - absent Design, Kibrille
- 9 - present Bartoli
- not tested

05.17. Resistance to *Bremia lactucae* (BI) isolate BI: 39EU *

- 1 - absent Bartoli, RYZ2164, Dandie
- 9 - present Design, Kibrille
- not tested

05.18. Resistance to *Bremia lactucae* (BI) isolate BI: 40EU *

- 1 - absent Bartoli, RYZ2164
- 9 - present Kibrille
- not tested

(53) 05.19. Resistance to *Lettuce Mosaic Virus* (LMV) pathotype II *

- 1 - absent Bijou, Hilde II, Sprinter, Sucrine
- 9 - present Capitan, Corsica
- not tested

(54) 05.20. Resistance to *Nasonovia ribisnigri* (Nr) biotype Nr: 0 *

- 1 - absent Abel, Green Towers, Nadine
- 9 - present Barcelona, Bedford, Dynamite, Silvinas
- not tested

(55) 05.21. Resistance to *Fusarium oxysporum* f.sp. *lactucae* (Fol) race 1 *

- 1 - susceptible Cobham Green, Patriot
- 2 - moderately resistant Affic, Fuzila, Natexis
- 3 - highly resistant Costa Rica No. 4, Romasol
- not tested

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? ***07.02.01. Type of culture ***

- outdoor
- indoor

07.02.02. Growing season *

- spring
- summer
- autumn
- winter

07.02.03. Are there any special conditions for growing the variety or conducting the examination? *

- Yes, specify

- No

07.03. Other information ***07.03.01. Type ***

- Butterhead type



- Novita type
- Iceberg type
- Batavia type
- Frisée d'Amérique type
- Lollo type
- Oakleaf type
- Multi-divided type
- Frillice type
- Cos type
- Gem type
- Stem type

07.03.02. 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

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

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