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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
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| <p>LOBELIA</p> <p>UPOV Codes: LOBEL_ALS; LOBEL_ERI; LOBEL_VAL; LOBEL_AER; LOBEL_EVA;</p> <p><i>Lobelia alsinoides</i> Lam.; <i>Lobelia erinus</i> L.; <i>Lobelia valida</i> L. Bolus; Hybrids between <i>Lobelia erinus</i> and <i>Lobelia alsinoides</i>; Hybrids between <i>Lobelia erinus</i> and <i>Lobelia valida</i></p> |
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GUIDELINES
FOR THE CONDUCT OF TESTS
FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:*

| <i>Botanical name</i> | <i>English</i> | <i>French</i> | <i>German</i> | <i>Spanish</i> |
|---|---|---------------------------------|---------------------|----------------|
| <i>Lobelia alsinoides</i> Lam. | | | | |
| <i>Lobelia erinus</i> L. | Lobelia, Edging Lobelia, Garden Lobelia, Trailing Lobelia | Lobélie, Lobélie des jardins | Lobelie, Männertreu | Lobelia |
| <i>Lobelia valida</i> L. Bolus | | | | |
| Hybrids between <i>Lobelia erinus</i> and <i>Lobelia alsinoides</i> | | | | |
| Hybrids between <i>Lobelia erinus</i> and <i>Lobelia valida</i> | | | | |

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Lobelia alsinoides* Lam., *Lobelia erinus* L., *Lobelia valida* L. Bolus, hybrids between *Lobelia erinus* and *Lobelia alsinoides* and hybrids between *Lobelia erinus* and *Lobelia valida*.

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of young plants or seed.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

vegetatively propagated varieties: 15 rooted cuttings
seed propagated varieties: a sufficient quantity of seed to produce 30 plants.

In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material 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 it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be a single growing cycle.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. Characteristics should be examined at the time of full flowering.

3.3.2 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description.

3.4 *Test Design*

3.4.1 Vegetatively propagated varieties: each test should be designed to result in a total of at least 15 plants.

3.4.2 Seed propagated varieties: each test should be designed to result in a total of at least 30 plants.

3.4.3 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.”

3.5 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of Plants / Parts of Plants to be Examined

4.1.4.1 Unless otherwise indicated, for vegetatively propagated varieties, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.4.2 Unless otherwise indicated, for seed-propagated varieties, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 “Examining Distinctness”, Section 4 “Observation of characteristics”):

- MG: single measurement of a group of plants or parts of plants
- MS: measurement of a number of individual plants or parts of plants
- VG: visual assessment by a single observation of a group of plants or parts of plants
- VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

“Visual” observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, “G” provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 15 plants, 1 off-type is allowed.

4.2.3 For the assessment of uniformity of seed-propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 30 plants, 1 off-type is allowed.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

4.3.3 Where appropriate, or in cases of doubt, the stability of a hybrid variety may, in addition to an examination of the hybrid variety itself, also be assessed by examination of the uniformity and stability of its parent lines.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Plant: attitude of shoots (characteristic 1)
- (b) Flower: type (characteristic 16)
- (c) Lower lip: main color of upper side (excluding white zone) (characteristic 25) with the following groups:
 - Gr. 1: white
 - Gr. 2: light blue
 - Gr. 3: medium/dark blue to violet
 - Gr. 4: red/purple
- (d) Lower lip: white zone on upper side (characteristic 27)
- (e) Lower lip: markings (characteristic 29)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

| State | Note |
|--------|------|
| small | 3 |
| medium | 5 |
| large | 7 |

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

| State | Note |
|---------------------|------|
| very small | 1 |
| very small to small | 2 |
| small | 3 |
| small to medium | 4 |
| medium | 5 |
| medium to large | 6 |
| large | 7 |
| large to very large | 8 |
| very large | 9 |

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 *Legend*

(*) Asterisked characteristic – see Chapter 6.1.2

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-qualitative characteristic – see Chapter 6.3

MG, MS, VG, VS – see Chapter 4.1.5

(a)-(e) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2.

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota | |
|-----------|---------------|--|---|--|--|---------------|---|
| 1. | VG | Plant: attitude of shoots | Plante : port des rameaux | Pflanze: Haltung der Triebe | Planta: porte de los tallos | | |
| | (*) | | | | | | |
| | (+) | | | | | | |
| QN | upright | dressé | aufrecht | erecto | Lobetis | 1 | |
| | semi-upright | demi-dressé | halbaufrecht | semierecto | Tech Hevio, USLOB13 | 3 | |
| | horizontal | horizontal | waagrecht | horizontal | Tec Hewhitt, Wesloti | 5 | |
| | semi drooping | semi-retombant | halbhängend | semicolgante | Wespinstar | 7 | |
| | drooping | retombant | hängend | colgante | | 9 | |
| 2. | VG/MS | Plant: height | Plante : hauteur | Pflanze: Höhe | Planta: altura | | |
| | (+) | | | | | | |
| QN | short | courte | niedrig | baja | GRÜLO 01 | 3 | |
| | medium | moyenne | mittel | media | Lobmounwi | 5 | |
| | tall | haute | hoch | alta | Tec Travio | 7 | |
| 3. | VG/MS | Shoot: length | Rameau : longueur | Trieb: Länge | Tallo: longitud | | |
| QN | short | court | kurz | corto | Lobmounwi | 3 | |
| | medium | moyen | mittel | medio | Wesstar | 5 | |
| | long | long | lang | largo | Lobmounlila | 7 | |
| 4. | VG/MS | Shoot: length of internodes | Rameau : longueur des entre-nœuds | Trieb: Länge der Internodien | Tallo: longitud del entrenudo | | |
| QN | (a) | short | courts | kurz | corto | Weslosu | 3 |
| | | medium | moyens | mittel | medio | Tech Elebule | 5 |
| | | long | longs | lang | largo | | 7 |
| 5. | VG | Shoot: thickness | Rameau : épaisseur | Trieb: Dicke | Tallo: grosor | | |
| | (*) | | | | | | |
| QN | (a) | very thin | très mince | sehr dünn | muy delgado | Loboudtis | 1 |
| | | thin | mince | dünn | delgado | Lobmounwi | 2 |
| | | medium | moyen | mittel | medio | Weslosu | 3 |
| | | thick | épais | dick | grueso | DANANAB 8 | 4 |
| | | very thick | très épais | sehr dick | muy grueso | | 5 |
| 6. | VG | Shoot: intensity of green color | Rameau : intensité de la couleur verte | Trieb: Intensität der Grünfärbung | Tallo: intensidad del color verde | | |
| QN | (a) | light | claire | hell | clara | Wesloti | 1 |
| | | medium | moyenne | mittel | media | Tec Travio | 2 |
| | | dark | foncée | dunkel | oscura | Loboudtis | 3 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|------------|---------------------------|--------------------------------------|--|--------------------------------|--|----------------|
| 7. | VG | Shoot: anthocyanin coloration | Rameau : pigmentation anthocyanique | Trieb: Anthocyanfärbung | Tallo: pigmentación antociánica | |
| QN | (b) | absent or very weak | absente ou très faible | fehlend oder sehr gering | ausente o muy débil | Weslosu 1 |
| | | weak | faible | gering | débil | Tech Elebule 3 |
| | | medium | moyenne | mittel | media | Wespinstar 5 |
| | | strong | forte | stark | fuerte | Wespurstar 7 |
| 8. | VG | Shoot: pubescence | Rameau : pubescence | Trieb: Behaarung | Tallo: pubescencia | |
| QN | (a) | absent or very sparse | absente ou très éparse | fehlend oder sehr wenig | ausente o muy escasa | 1 |
| | | sparse | éparse | wenig | escasa | 2 |
| | | medium | moyenne | mittel | media | 3 |
| | | dense | dense | dicht | densa | 4 |
| | | very dense | très dense | sehr dicht | muy densa | 5 |
| 9. | VG/ (*) MS | Leaf: length | Feuille : longueur | Blatt: Länge | Hoja: longitud | |
| QN | (c) | short | courte | kurz | corta | 3 |
| | | medium | moyenne | mittel | media | Lobtrawi 5 |
| | | long | longue | lang | larga | Tech Heplib 7 |
| 10. | VG/ (*) MS | Leaf: width | Feuille : largeur | Blatt: Breite | Hoja: anchura | |
| QN | (c) | narrow | étroite | schmal | estrecha | 3 |
| | | medium | moyenne | mittel | media | Tech Elebule 5 |
| | | broad | large | breit | ancha | Weslowei 7 |
| 11. | VG (*) | Leaf: incisions of margin | Feuille : incisions du bord | Blatt: Randeinschnitte | Hoja: incisiones del borde | |
| QN | (c) | absent or very shallow | nulles ou très peu profondes | fehlend oder sehr flach | ausentes o muy poco profundas | 1 |
| | | shallow | peu profondes | flach | poco profundas | Wespinstar 3 |
| | | medium | moyennes | mittel | medias | Tech Hevio 5 |
| | | deep | profondes | tief | profundas | Lobstrahob 7 |
| | | very deep | très profondes | sehr tief | muy profundas | 9 |
| 12. | VG (+) | Leaf: shape | Feuille : forme | Blatt: Form | Hoja: forma | |
| PQ | (c) | broad ovate | ovale large | breit eiförmig | ovado ancha | 1 |
| | | elliptic | elliptique | elliptisch | elíptica | 2 |
| | | circular | circulaire | kreisförmig | circular | 3 |
| | | oblanceolate | oblanceolée | verkehrt lanzettlich | oblanceolada | 4 |
| | | obovate | obovale | verkehrt eiförmig | obovado | 5 |
| | | spatulate | spatulée | spatelförmig | espatulada | 6 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota | |
|------------|--------------|---|---|---|---|---------------------|-------------------------|
| 13. | VG | Leaf: intensity of green color on upper side | Feuille : intensité de la couleur verte sur la face supérieure | Blatt: Intensität der Grünfärbung an der Oberseite | Hoja: intensidad del color verde en el haz | | |
| QN | (c) | light | clair | hell | clara | Lobmounlila 1 | |
| | | medium | moyenne | mittel | media | Tech Travio 2 | |
| | | dark | foncée | dunkel | oscura | Weslowei 3 | |
| 14. | VG | Leaf: anthocyanin coloration on lower side | Feuille : pigmentation anthocyanique sur la face inférieure | Blatt: Anthocyanfärbung an der Unterseite | Hoja: pigmentación antocianica del envés | | |
| (+) | QN | (c) | absent or very weak | absente ou très faible | fehrend oder sehr gering | ausente o muy débil | Kirilo-LV63 1 |
| | | | weak | faible | gering | débil | Lobtramidblu 2 |
| | | | medium | moyenne | mittel | media | Tech Heplib 3 |
| | | | strong | forte | stark | fuerte | Regatta Midnight Blue 4 |
| 15. | VG | Leaf: pubescence on upper side | Feuille : pubescence sur la face supérieure | Blatt: Behaarung an der Oberseite | Hoja: pubescencia en el haz | | |
| QN | (c) | absent or very sparse | absente ou très éparse | fehrend oder sehr wenig | ausente o muy escasa | Riviera Lilac 1 | |
| | | sparse | éparse | wenig | escasa | Lobmounlila 2 | |
| | | medium | moyenne | mittel | media | 3 | |
| | | dense | dense | dicht | densa | USLOB13 4 | |
| | | very dense | très dense | sehr dicht | muy densa | 5 | |
| 16. | VG | Flower: type | Fleur : type | Blüte: Typ | Flor: tipo | | |
| (*) | QL | single | simple | einfach | simple | KLELE08621 1 | |
| (+) | | double | double | gefüllt | doble | Kathleen Mallard 2 | |
| 17. | VG/MS | <u>Only varieties with flower type: double:</u> Flower: diameter | <u>Variétés à type de fleur double</u> <u>seulement</u> : Fleur : diamètre | <u>Nur Sorten mit Blütentyp: gefüllt:</u> Blüte: Durchmesser | <u>Sólo variedades con tipo de flor: doble:</u> Flor: diámetro | | |
| QN | | small | petit | klein | pequeño | 3 | |
| | | medium | moyen | mittel | medio | 5 | |
| | | large | grand | groß | grande | 7 | |
| 18. | VG | <u>Only varieties with flower type: double:</u> Flower: color | <u>Variétés à type de fleur double</u> <u>seulement</u> : Fleur : couleur | <u>Nur Sorten mit Blütentyp: gefüllt:</u> Blüte: Farbe | <u>Sólo variedades con tipo de flor: doble:</u> Flor: color | | |
| PQ | | RHS Colour Chart (indicate reference number) | Code de couleurs RHS (indiquer le numéro de référence) | RHS Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese número de referencia) | | |
| 19. | VG/MS | Corolla: length | Corolle : longueur | Krone: Länge | Corola: longitud | | |
| (*) | QN | (d) | short | courte | kurz | corta | Lobmounwi 3 |
| (+) | | | medium | moyenne | mittel | media | Tech Elebule 5 |
| | | | long | longue | lang | largo | 7 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|------------|--------------|--|--|--|---|--------------------|
| 20. | VG | Upper lip: shape of lobes | Labelle supérieur : forme des lobes | Oberlippe: Form der Lappen | Labio superior: forma de los lóbulos | |
| (+) | | | | | | |
| PQ | (d) | elliptic | elliptiques | elliptisch | elíptica | Lobantis 1 |
| | | oblanceolate | oblancéolés | verkehrt lanzettlich | oblanceolada | Lobmounwi 2 |
| | | obovate | obovales | verkehrt eiförmig | oboval | Balwalila 3 |
| | | obtriangular | obtriangulaires | verkehrt dreieckig | obtriangular | Regatta Sapphire 4 |
| 21. | VG | Upper lip: color of inner side | Labelle supérieur : couleur de la face interne | Oberlippe: Farbe der Innenseite | Labio superior: color de la cara interior | |
| PQ | (d) | RHS Colour Chart (indicate reference number) | Code de couleurs RHS (indiquer le numéro de référence) | RHS Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | |
| 22. | VG/MS | Lower lip: length | Labelle inférieur : longueur | Unterlippe: Länge | Labio inferior: longitud | |
| (*) | | | | | | |
| (+) | | | | | | |
| QN | (d) | very short | très court | sehr kurz | muy corto | Loboudtis 1 |
| | | short | court | kurz | corto | Lobtrawi 2 |
| | | medium | moyen | mittel | medio | 3 |
| | | long | long | lang | largo | Wespurstar 4 |
| | | very long | très long | sehr lang | muy largo | Tech Hewhitt 5 |
| 23. | VG/MS | Lower lip: width | Labelle inférieur : largeur | Unterlippe: Breite | Labio inferior: anchura | |
| (*) | | | | | | |
| (+) | | | | | | |
| QN | (d) | narrow | étroit | schmal | estrecho | Lobmounwi 3 |
| | | medium | moyen | mittel | medio | Tech Elebule 5 |
| | | broad | large | breit | ancho | Weslosu 7 |
| 24. | VG/MS | Lower lip: width of middle lobe | Labelle inférieur : largeur du lobe médian | Unterlippe: Breite des Mittellappens | Labio inferior: anchura del lóbulo medio | |
| (*) | | | | | | |
| (+) | | | | | | |
| QN | (d) | narrow | étroit | schmal | estrecho | Loboudtis 1 |
| | | medium | moyen | mittel | medio | Tech Elebule 2 |
| | | broad | large | breit | ancho | Tec Hewhitt 3 |
| 25. | VG | Lower lip: main color of upper side (excluding white zone) | Labelle inférieur : couleur principale de la face supérieure (sauf la zone blanche) | Unterlippe: Hauptfarbe der Oberseite (ohne weiße Zone) | Labio inferior: color principal de la cara superior (excluida la zona blanca) | |
| (*) | | | | | | |
| (+) | | | | | | |
| PQ | (d) | RHS Colour Chart (indicate reference number) | Code de couleurs RHS (indiquer le numéro de référence) | RHS Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | |
| 26. | VG | Lower lip: secondary color of upper side (excluding white zone) | Labelle inférieur : couleur secondaire de la face supérieure (sauf la zone blanche) | Unterlippe: Sekundärfarbe der Oberseite (ohne weiße Zone) | Labio inferior: color secundario de la cara superior (excluida la zona blanca) | |
| (+) | | | | | | |
| PQ | (d) | RHS Colour Chart (indicate reference number) | Code de couleurs RHS (indiquer le numéro de référence) | RHS Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|------------|------------|---|--|---|--|--------------------|
| 27. | VG | Lower lip: white zone on upper side | Labelle inférieur : zone blanche sur la face supérieure | Unterlippe: weiße Zone auf der Oberseite | Labio inferior: zona blanca en la cara superior | |
| QN | (d) | absent or very small | absente ou très petite | fehlend oder sehr klein | ausente o muy pequeña | Riviera Lilac 1 |
| | | small | petite | klein | pequeña | Loboudtis 3 |
| | | medium | moyenne | mittel | media | Tech Hevio 5 |
| | | large | grande | groß | grande | Tech Heplib 7 |
| | | very large | très grande | sehr groß | muy grande | 9 |
| 28. | VG | Lower lip: shape of white zone on upper side | Labelle inférieur : forme de la zone blanche sur la face supérieure | Unterlippe: Form der weißen Zone auf der Oberseite | Labio inferior: forma de la zona blanca en la cara superior | |
| PQ | (d) | elongated only | allongée seulement | nur länglich | únicamente alargada | 1 |
| | | elongated and rounded | allongée et arrondie | länglich und rundlich | alargada y redondeada | 2 |
| | | rounded only | arrondie seulement | nur rundlich | únicamente redondeada | 3 |
| | | irregular | irrégulière | unregelmäßig | irregular | 4 |
| 29. | VG | Lower lip: markings | Labelle inférieur : taches | Unterlippe: Zeichnung | Labio inferior: marcas | |
| QL | (d) | absent | absentes | fehlend | ausentes | Tech Hepdab 1 |
| | (e) | present | présentes | vorhanden | presentes | Balwalila 9 |
| 30. | VG | Lower lip: size of markings | Labelle inférieur : taille des taches | Unterlippe: Größe der Zeichnung | Labio inferior: tamaño de las marcas | |
| QN | (d) | small | petites | klein | pequeñas | Azuro 1 |
| | (e) | medium | moyennes | mittel | medias | Lobstrahob 2 |
| | | large | grandes | groß | grandes | LOBZ0001 3 |
| 31. | VG | Lower lip: color of lower side | Labelle inférieur : couleur de la face inférieure | Unterlippe: Farbe der Unterseite | Labio inferior: color de la cara inferior | |
| PQ | (d) | RHS Colour Chart (indicate reference number) | Code de couleurs RHS (indiquer le numéro de référence) | RHS Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | |
| 32. | VG | Lower lip: arrangement of lobes | Labelle inférieur : disposition des lobes | Unterlippe: Anordnung der Lappen | Labio inferior: disposición de los lóbulos | |
| QN | (d) | free | ouverts | freistehend | separados | KLELE08621 1 |
| | | touching | tangents | sich berührend | en contacto | Regatta Sapphire 2 |
| | | overlapping | chevauchants | überlappend | solapados | Lobtrawi 3 |
| 33. | VG | Corolla tube: color of outer side | Tube de la corolle : couleur de la face externe | Kronröhre: Farbe der Außenseite | Tubo de la corola: color de la cara externa | |
| PQ | (d) | RHS Colour Chart (indicate RHS reference number) | Code de couleurs RHS (indiquer le numéro de référence) | RHS Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | |

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) Shoot characteristics should be observed on the middle third of the shoot.
- (b) Anthocyanin coloration on the shoot should be observed on the upper third.
- (c) Leaf characteristics should be observed on fully developed leaves on the lower third of the shoot just before flowering.
- (d) Observe for varieties with single flower types only.
- (e) Markings on the lower lip do not include the white zone or any yellow markings extending from the throat.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: attitude of shoots



1
upright



3
semi-upright



5
horizontal



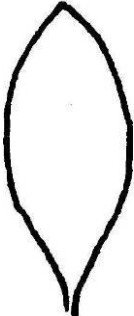
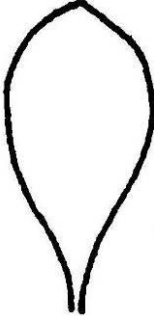
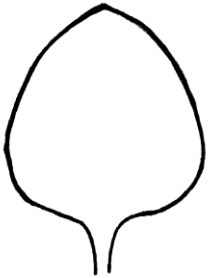
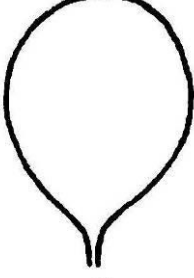


9
drooping

Ad. 2: Plant: height

Plant height should be assessed from the surface of the growing medium.

Ad. 12: Leaf: shape

| | | ← broadest part → | | |
|--|---|--|--|---|
| | | (below middle) | (above middle) | |
| broad (compressed) ← width (ratio length/width) → narrow (elongated) | | |  4 oblanceolate |  6 spatulate |
| | |  2 elliptic |  5 obovate | |
| |  1 broad ovate |  3 circular | | |

Ad. 14: Leaf: anthocyanin coloration on lower side



1
absent or very weak



4
strong

Ad. 16: Flower: type

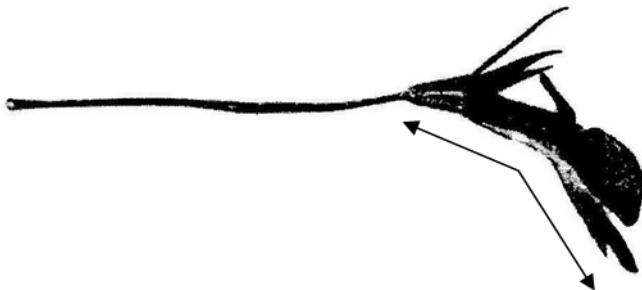


1
single
(5 lobes only)



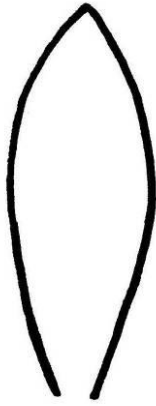
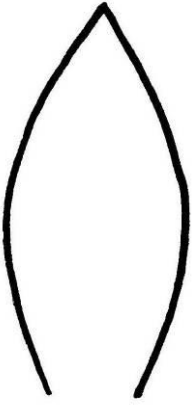
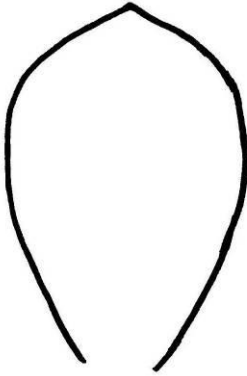
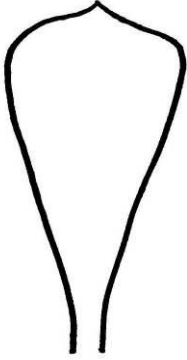
2
double
(more than 5 lobes)

Ad. 19: Corolla: length



The length to assess is the real length and not the natural length. Flowers with strong recurvature should be flattened.

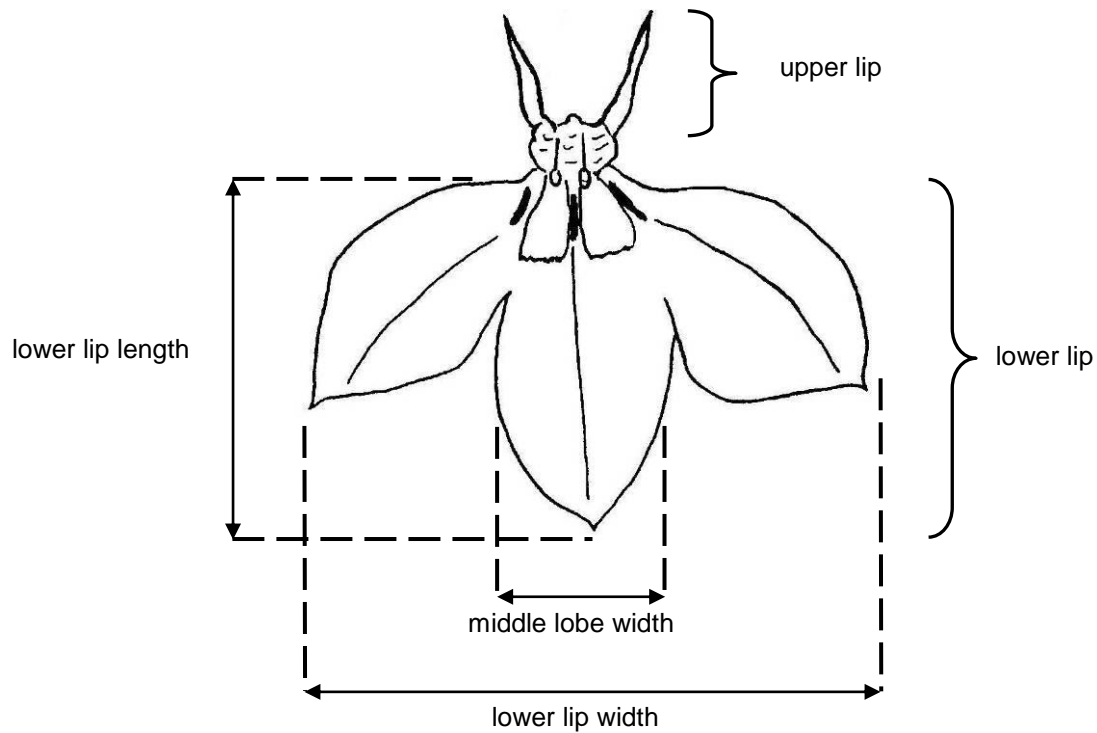
Ad. 20: Upper lip: shape of lobes

| | | ← | broadest part | → |
|--|--|--|---|---|
| | | at middle | (above middle) | |
| broad (compressed) ← width (ratio length/width) → narrow (elongated) | | |  | |
| | | | 2 ob lanceolate | |
| |  |  |  | |
| | 1 elliptic | 3 obovate | 4 obtriangular | |

Ad. 22: Lower lip: length

Ad. 23: Lower lip: width

Ad. 24: Lower lip: width of middle lobe



Ad. 25: Lower lip: main color of upper side (excluding white zone)

Ad. 26: Lower lip: secondary color of upper side (excluding white zone)

The main color is defined as the color with the largest surface area, the secondary color (if present) is the color with the second largest surface area.

Ad. 27: Lower lip: white zone on upper side



absent



present

For white varieties, the white zone is recorded as absent.

Ad. 28: Lower lip: shape of white zone on upper side



1
elongated only



3
rounded only



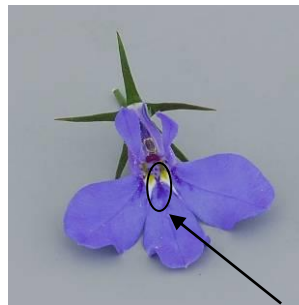
4
irregular

State 2 (elongated and rounded) means that flowers with elongated white zone on lower lip and flowers with rounded white zone on lower lip are both present on the same plant.

Ad. 29: Lower lip: markings



1
absent



9
present

Ad. 32: Lower lip: arrangement of lobes

Observation should be made on the non fused part between the lateral and middle lobes.



1
free



2
touching



3
overlapping

9. Literature

Huxley, A. (ed.), Griffiths, M. (ed.), Levy, M. (ed.), 1999: The Royal Horticultural Society Dictionary of Gardening. Grove's Dictionaries Inc. New York, New York, US.

10. Technical Questionnaire

| | | |
|---|--|---|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
| | | Application date: (not to be filled in by the applicant) |
| TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | | |
| 1. Subject of the Technical Questionnaire | | |
| 1.1 Botanical name | <input type="text" value="Lobelia alsinoides Lam."/> | [] |
| 1.2 Botanical name | <input type="text" value="Lobelia erinus L."/> | [] |
| 1.3 Botanical name | <input type="text" value="Lobelia valida L. Bolus"/> | [] |
| 1.4 Botanical name | <input type="text" value="Hybrids between Lobelia erinus and Lobelia alsinoides"/> | [] |
| 1.5 Botanical name | <input type="text" value="Hybrids between Lobelia erinus and Lobelia valida"/> | [] |
| 2. Applicant | | |
| Name | <input type="text"/> | |
| Address | <input type="text"/> | |
| Telephone No. | <input type="text"/> | |
| Fax No. | <input type="text"/> | |
| E-mail address | <input type="text"/> | |
| Breeder (if different from applicant) | <input type="text"/> | |
| 3. Proposed denomination and breeder's reference | | |
| Proposed denomination (if available) | <input type="text"/> | |
| Breeder's reference | <input type="text"/> | |

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross []
(please state parent varieties)

(.....) x (.....)
female parent male parent

(b) partially known cross []
(please state known parent variety(ies))

(.....) x (.....)
female parent male parent

(c) unknown cross []

4.1.2 Mutation []
(please state parent variety)

.....

4.1.3 Discovery and development []
(please state where and when discovered and how developed)

.....

4.1.4 Other []
(please provide details)

.....

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

- (a) Self-pollination []
- (b) Cross-pollination []
 - (i) population []
 - (ii) synthetic variety []
- (c) Hybrid []
(please provide details)

[]

- (d) Other []
(please provide details)

[]

4.2.2 Vegetatively propagated varieties

- (a) cuttings []
- (b) *in vitro* propagation []
- (c) other (state method) []

[]

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

| Characteristics | Example Varieties | Note |
|---|----------------------|------|
| 5.1 Plant: attitude of shoots (1) | | |
| upright | Lobetis | 1[] |
| upright to semi-upright | | 2[] |
| semi-upright | Tech Hevio, USLOB13 | 3[] |
| semi-upright to horizontal | | 4[] |
| horizontal | Tec Hewhitt, Wesloti | 5[] |
| horizontal to semi-drooping | | 6[] |
| semi-drooping | Wespinstar | 7[] |
| semi-drooping to drooping | Lobmounlila | 8[] |
| drooping | | 9[] |
| 5.2 Flower: type (16) | | |
| single | KLELE08621 | 1[] |
| double | Kathleen Mallard | 2[] |
| 5.3 i Lower lip: main color of upper side (excluding white zone) (25) | | |
| RHS Colour Chart (indicate reference number) | | |
| 5.3 ii Lower lip: main color of upper side (excluding white zone) (25) | | |
| white | | 1[] |
| light blue | | 2[] |
| medium/dark blue to violet | | 3[] |
| red/purple | | 4[] |

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

| Characteristics | Example Varieties | Note |
|---|-------------------|------|
| 5.4 Lower lip: white zone on upper side (27) | | |
| absent or very small | Riviera Lilac | 1[] |
| very small to small | | 2[] |
| small | Loboudtis | 3[] |
| small to medium | | 4[] |
| medium | Tech Hevio | 5[] |
| medium to large | | 6[] |
| large | Tech Heplib | 7[] |
| large to very large | | 8[] |
| very large | | 9[] |
| 5.5 Lower lip: markings (29) | | |
| absent | Tech Hepdab | 1[] |
| present | Balwalila | 9[] |

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

| 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 |
|---|---|--|--|
| <i>Example</i> | <i>Lower lip: main color of upper side (excluding white zone)</i> | <i>light blue</i> | <i>white</i> |

| |
|--|
| |
|--|

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|--|
| |
|--|

| |
|------------------|
| <p>Comments:</p> |
|------------------|

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes No

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes No

(If yes, please provide details)

7.3 Other information

A representative color image of the variety should accompany the Technical Questionnaire.

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes No

(b) Has such authorization been obtained?

Yes No

If the answer to (b) is yes, please attach a copy of the authorization.

9. Information on plant material to be examined or submitted for examination.

9.1 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.

9.2 The plant material 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:

| | | |
|---|------------------------------|-----------------------------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (c) Tissue culture | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (d) Other factors | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

Please provide details for where you have indicated "yes".

.....

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

| | | |
|-------------------------|-----------------|-------------------|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|-------------------------|-----------------|-------------------|

| | | | |
|---|----------------------|------|----------------------|
| 10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct: | | | |
| Applicant's name | <input type="text"/> | | |
| Signature | <input type="text"/> | Date | <input type="text"/> |

[End of document]