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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

ALSTROEMERIA*

UPOV Code(s): ALSTR

Alstroemeria L.

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>Alstroemeria</i> L. | Alstroemeria, Herb Lily | Alstroèmère, Lis des Incas | Inkalilie | Alstromeria |

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 *Alstroemeria* L..

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.

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

8 plants

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*

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

3.1.2 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

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.

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*

Each test should be designed to result in a total of at least 8 plants.

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 or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 7 plants or parts of plants taken from each of 7 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 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 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.
- 4.2.3 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 8 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 plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

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: height (characteristic 1)
 - (b) Leaf blade: variegation (characteristic 9)
 - (c) Flower: main color (characteristic 13)
- 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

| | | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|------------------------------------|------------------------------|-------------------------------|--------------------------------|--|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | Name of characteristics in English | Nom du caractère en français | Name des Merkmals auf Deutsch | Nombre del carácter en español | | |
| | | states of expression | types d'expression | Ausprägungsstufen | tipos de expresión | | |

- 1 Characteristic number
- 2 (*) Asterisked characteristic – see Chapter 6.1.2
- 3 Type of expression
 QL Qualitative characteristic – see Chapter 6.3
 QN Quantitative characteristic – see Chapter 6.3
 PQ Pseudo-qualitative characteristic – see Chapter 6.3
- 4 Method of observation (and type of plot, if applicable)
 MG, MS, VG, VS – see Chapter 4.1.5
- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.2
- 6 (a)-(e) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Not applicable

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

| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|--------|---|----------|--|----------|---|---|--|---------------|
| 1. (*) | QN | MG/MS/VG | (+) | (a) | | | | |
| | Plant: height | | Plante : hauteur | | Pflanze: Höhe | Planta: altura | | |
| | short | | basse | | niedrig | baja | Alsdun01, Tesnoram | 3 |
| | medium | | moyenne | | mittel | media | Konaribean, Tesrome | 5 |
| | tall | | haute | | hoch | alta | Konplatina, Zalsabri | 7 |
| 2. (*) | QN | MG/MS/VG | (+) | (a) | | | | |
| | Stem: thickness | | Tige : épaisseur | | Stengel: Dicke | Tallo: grosor | | |
| | thin | | fine | | dünn | delgado | Alsdun01, Tesmoonli | 3 |
| | medium | | moyenne | | mittel | medio | Kongrenday, Zalsabri | 5 |
| | thick | | épaisse | | dick | grueso | Konplatina, Zalsatista | 7 |
| 3. | QN | VG | | (a) | | | | |
| | Stem: anthocyanin coloration | | Tige : pigmentation anthocyanique | | Stengel: Anthocyanfärbung | Tallo: pigmentación antocianica | | |
| | absent or very weak | | absente ou très faible | | fehlend oder sehr gering | ausente o muy débil | | 1 |
| | weak | | faible | | gering | débil | | 3 |
| | medium | | moyenne | | mittel | media | | 5 |
| | strong | | forte | | stark | fuerte | | 7 |
| 4. | PQ | VG | | (a) | | | | |
| | Stem: distribution of anthocyanin coloration | | Tige : répartition de la pigmentation anthocyanique | | Stengel: Verteilung der Anthocyanfärbung | Tallo: distribución de la pigmentación antocianica | | |
| | at base only | | à la base uniquement | | nur an der Basis | solo en la base | Konantarct | 1 |
| | basal half only | | moitié basale uniquement | | nur in basaler Hälfte | solo en la mitad inferior | Konalegria | 2 |
| | basal and apical part | | partie basale et apicale | | im basalen und apikalen Teil | en la zona inferior y apical | Zanalsron | 3 |
| | throughout | | partout | | überall | en la totalidad | Staqueen | 4 |
| 5. (*) | QN | MG/MS/VG | (+) | (a), (b) | | | | |
| | Leaf: length | | Feuille : longueur | | Blatt: Länge | Hoja: longitud | | |
| | short | | courte | | kurz | corta | Konaribean, Zalsabri | 3 |
| | medium | | moyenne | | mittel | media | Alsdun01, Tesmars | 5 |
| | long | | longue | | lang | larga | Konplatina, Zanalsron | 7 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|---|--|--|--|--|---------------|
| 6. (*) | QN MG/MS/VG | (+) (a), (b) | | | | |
| | Leaf: width | Feuille : largeur | Blatt: Breite | Hoja: anchura | | |
| | narrow | étroite | schmal | estrecha | Konplatina, Zanalstron | 3 |
| | medium | moyenne | mittel | media | Konaribean, Zalsabri | 5 |
| | broad | large | breit | ancha | Alsdun01, Tesnoram | 7 |
| 7. | QN VG | (+) (a), (b) | | | | |
| | Leaf blade: attitude | Limbe : port | Blattspreite: Haltung | Limbo: porte | | |
| | semi-erect | demi-dressé | halbaufrecht | semierecto | | 3 |
| | horizontal | horizontal | waagerecht | horizontal | | 5 |
| | semi-drooping | demi-retombant | halbüberhängend | semicolgante | | 7 |
| 8. (*) | QL VG | (+) (a), (b) | | | | |
| | Leaf blade: greyish colored longitudinal stripes | Limbe : bandes longitudinales grisâtres | Blattspreite: gräulich gefärbte Längsstreifen | Limbo: estrías longitudinales de color grisáceo | | |
| | absent | absentes | fehlend | ausentes | | 1 |
| | present | présentes | vorhanden | presentes | | 9 |
| 9. (*) | QL VG | (+) (a), (b) | | | | |
| | Leaf blade: variegation | Limbe : panachure | Blattspreite: Panaschierung | Limbo: variegación | | |
| | absent | absente | fehlend | ausente | | 1 |
| | present | présente | vorhanden | presente | Alsdun01 | 9 |
| 10. (*) | QN MG/MS/VG | (+) (a) | | | | |
| | Umbel: length of rays | Ombelle : longueur des rayons | Dolde: Länge der Achsen | Umbela: longitud de los radios | | |
| | short | courte | kurz | corta | Alsdun01, Konaribean | 3 |
| | medium | moyenne | mittel | media | Konplatina, Tesmars | 5 |
| | long | longue | lang | larga | Konswitch | 7 |
| 11. (*) | QN MG/MS/VG | (a) | | | | |
| | Umbel: number of rays | Ombelle : nombre de rayons | Dolde: Anzahl Achsen | Umbela: número de radios | | |
| | few | faible | gering | bajo | Tesmoonli, Zapiliarange | 3 |
| | medium | moyen | mittel | medio | Konplatina, Zalsabri | 5 |
| | many | élevé | groß | alto | Alsdun01, Konaribean | 7 |

| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|---------------------------------------|--|---------------------------------------|--|------------------------|---------|--|---------------|
| 12. (*) | QN | MG/MS/VG | (+) | (a), (c) | | | | |
| | Flower: length of pedicel | Fleur : longueur du pédicelle | Blüte: Länge des Stiels | Flor: longitud del pedicelo | | | | |
| | short | courte | kurz | corta | Alsdun01, Zalsabri | | 3 | |
| | medium | moyenne | mittel | media | ESM T122, Konplatina | | 5 | |
| | long | longue | lang | larga | Tesmars, Tesnoram | | 7 | |
| 13. (*) | PQ | VG | (a), (c), (d) | | | | | |
| | Flower: main color | Fleur : couleur principale | Blüte: Hauptfarbe | Flor: color principal | | | | |
| | white | blanche | weiß | blanco | Konantarct, Tesmoonli | | 1 | |
| | yellow green | vert jaune | gelbgrün | verde amarillento | Kongrenday | | 2 | |
| | light yellow | jaune clair | hellgelb | amarillo claro | Gataran, Konwpearls | | 3 | |
| | medium yellow | jaune moyen | mittelgelb | amarillo medio | Konaribbean | | 4 | |
| | orange | orange | orange | naranja | ESM T122, Staqueen | | 5 | |
| | light pink | rose clair | hellrosa | rosa claro | Tesnoram | | 6 | |
| | medium pink | rose moyen | mittelrosa | rosa medio | Zalsabri | | 7 | |
| | blue pink | bleu rose | blaurosa | rosa azulado | Konswitch | | 8 | |
| | orange red | rouge orangé | orangeroot | rojo anaranjado | Zalsance, Zapriiarange | | 9 | |
| | red | rouge | rot | rojo | Alsdun01 | | 10 | |
| | purple red | rouge pourpre | rotpurpurn | rojo púrpura | Konalegria, Tesrome | | 11 | |
| | light purple | pourpre clair | hellpurpurn | púrpura claro | Tesmars | | 12 | |
| | medium purple | pourpre moyen | mittelpurpurn | púrpura medio | Konplatina | | 13 | |
| | dark purple | pourpre foncé | dunkelpurpurn | púrpura oscuro | Zalsatista | | 14 | |
| 14. | QN | MG/MS/VG | (+) | (a), (c) | | | | |
| | Flower: length in frontal view | Fleur : longueur en vue de face | Blüte: Länge in Vorderansicht | Flor: longitud en vista frontal | | | | |
| | short | courte | kurz | corta | Konwpearls | | 3 | |
| | medium | moyenne | mittel | media | Alsdun01, Kongrenday | | 5 | |
| | long | longue | lang | larga | Gataran, Zalsatista | | 7 | |
| 15. | QN | MG/MS/VG | (+) | (a), (c) | | | | |
| | Flower: width in frontal view | Fleur : largeur en vue de face | Blüte: Breite in Vorderansicht | Flor: anchura en vista frontal | | | | |
| | narrow | étroite | schmal | estrecha | Konwpearls | | 3 | |
| | medium | moyenne | mittel | media | Tesmoonli, Zalsabri | | 5 | |
| | broad | large | breit | ancha | Gataran, Zalsatista | | 7 | |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|---|---|--|--|--|---------------|
| 16. | QN | MG/MS/VG | (+) | (a), (c) | | |
| | Flower: ratio length/width in frontal view | Fleur : rapport longueur/largeur en vue de face | Blüte: Verhältnis Länge/Breite in Vorderansicht | Flor: relación longitud/anchura en vista frontal | | |
| | low | bas | klein | baja | Tespale | 3 |
| | medium | moyen | mittel | media | Gataran, Tesrome | 5 |
| | high | élevé | groß | alta | Konswitch | 7 |
| 17. | QN | MG/MS/VG | (+) | (a), (c) | | |
| | Flower: length in side view | Fleur : longueur en vue de profil | Blüte: Länge in Seitenansicht | Flor: longitud en vista lateral | | |
| | short | courte | kurz | corta | | 3 |
| | medium | moyenne | mittel | media | | 5 |
| | long | longue | lang | larga | | 7 |
| 18. (*) | PQ | VG | (+) | (a), (c) | | |
| | Outer tepal: shape of blade | Tépale externe : forme du limbe | Äußeres Perigonblatt: Form der Spreite | Tépalo externo: forma del limbo | | |
| | circular | circulaire | kreisförmig | circular | | 1 |
| | broad elliptic | elliptique large | breit elliptisch | elíptica ancha | Konwpearls | 2 |
| | medium elliptic | elliptique moyen | mittel elliptisch | elíptica media | Zalsance | 3 |
| | broad obovate | obovale large | breit verkehrt eiförmig | oboval ancha | Alsdun01, Zalsatista | 4 |
| | medium obovate | obovale moyen | mittel verkehrt eiförmig | oboval media | Kongrenday | 5 |
| 19. | QN | VG | (+) | (a), (c) | | |
| | Outer tepal: emargination | Tépale externe : échancrure | Äußeres Perigonblatt: Kerbung | Tépalo externo: emarginación | | |
| | shallow | peu profonde | flach | poco profunda | Alsdun01, Konplatina | 3 |
| | medium | moyenne | mittel | media | Konswitch, Tesmoonli | 5 |
| | deep | profonde | tief | profunda | Tesrome, Zalsabri | 7 |
| 20. (*) | PQ | VG | | (a), (c), (d) | | |
| | Outer tepal: main color of outer side | Tépale externe : couleur principale de la face externe | Äußeres Perigonblatt: Hauptfarbe der Außenseite | Tépalo externo: color principal del lado exterior | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|--|--|---|---|--|---------------|
| 21. (*) | QN VG | (+) (a), (c) | | | | |
| | Outer tepal: green area of outer side | Tépale externe : surface verte sur la face externe | Äußeres Perigonblatt: grüne Fläche der Außenseite | Tépalo externo: zona verde del lado exterior | | |
| | absent or very small | nulle ou très petite | fehlend oder sehr klein | ausente o muy pequeña | Alsdun01, ESM T122 | 1 |
| | small | petite | klein | pequeña | Tesmoonli, Zalsabri | 2 |
| | medium | moyenne | mittel | media | Tesmars, Zalsanebli | 3 |
| | large | grande | groß | grande | Gataran | 4 |
| | very large | très grande | sehr groß | muy grande | | 5 |
| 22. (*) | PQ VG | (a), (c), (d) | | | | |
| | Outer tepal: main color of central zone of inner side | Tépale externe : couleur principale de la zone centrale de la face interne | Äußeres Perigonblatt: Hauptfarbe der mittleren Zone der Innenseite | Tépalo externo: color principal de la zona central del lado interior | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 23. (*) | PQ VG | (a), (c), (d) | | | | |
| | Outer tepal: main color of top zone of inner side (green area excluded) | Tépale externe : couleur principale de la zone supérieure de la face interne (surface verte exclue) | Äußeres Perigonblatt: Hauptfarbe der oberen Zone der Innenseite (grün Fläche ausgeschlossen) | Tépalo externo: color principal de la zona superior del lado interior (excluida la zona verde) | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 24. (*) | PQ VG | (a), (c), (d) | | | | |
| | Outer tepal: main color of lateral zone of inner side | Tépale externe : couleur principale de la zone latérale de la face interne | Äußeres Perigonblatt: Hauptfarbe der seitlichen Zone der Innenseite | Tépalo externo: color principal de la zona lateral del lado interior | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 25. (*) | PQ VG | (a), (c), (d) | | | | |
| | Outer tepal: main color of basal zone of inner side | Tépale externe : couleur principale de la zone basale de la face interne | Äußeres Perigonblatt: Hauptfarbe der basalen Zone der Innenseite | Tépalo externo: color principal de la zona inferior del lado interior | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |

| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|--|---|---|---|---------|----------------------|--|---------------|
| 26. (*) | QN | VG | (+) | (a), (c) | | | | |
| | Outer tepal: small stripes on marginal part of lateral zone of inner side | Tépale externe : petites stries sur la partie marginale de la zone latérale de la face interne | Äußeres Perigonblatt: kleine Streifen am Rand der seitlichen Zone der Innenseite | Tépalo externo: estrías pequeñas en la parte marginal de la zona lateral del lado interior | | | | |
| | absent or very few | aucune ou très peu | fehlend oder sehr wenige | ausentes o muy pocas | | Alsdun01, Konplatina | 1 | |
| | few | peu | wenige | pocas | | Kongrenday | 3 | |
| | medium | moyennement nombreuses | mittel | medias | | Zalsatista | 5 | |
| | many | nombreuses | viele | abundantes | | | 7 | |
| 27. (*) | QN | VG | (+) | (a), (c) | | | | |
| | Outer tepal: large stripes on inner side (marginal zone excluded) | Tépale externe : larges stries sur la face interne (zone marginale exclue) | Äußeres Perigonblatt: große Streifen an der Innenseite (Randzone ausgeschlossen) | Tépalo externo: estrías anchas en el lado interior (excluida la zona marginal) | | | | |
| | absent or very few | aucune ou très peu | fehlend oder sehr wenige | ausentes o muy pocas | | Alsdun01, Konplatina | 1 | |
| | few | peu | wenige | pocas | | ESM T122 | 2 | |
| | medium | moyennement nombreuses | mittel | medias | | | 3 | |
| | many | nombreuses | viele | abundantes | | | 4 | |
| | very many | très nombreuses | sehr viele | muy abundantes | | | 5 | |
| 28. (*) | PQ | VG | (+) | (a), (c) | | | | |
| | Inner lateral tepal: shape | Tépale interne latéral : forme | Inneres seitliches Perigonblatt: Form | Tépalo lateral interno: forma | | | | |
| | medium elliptic | elliptique moyen | mittel elliptisch | elíptica media | | Tespolar, Zalsabri | 1 | |
| | narrow elliptic | elliptique étroit | schmal elliptisch | elíptica estrecha | | Kongrenday | 2 | |
| | medium obovate | obovale moyen | mittel verkehrt eiförmig | oboval media | | Zapiliarange | 3 | |
| | narrow obovate | obovale étroit | schmal verkehrt eiförmig | oboval estrecha | | Konwpearls | 4 | |
| 29. (*) | PQ | VG | | (a), (c), (d), (e) | | | | |
| | Inner lateral tepal: main color of central zone | Tépale interne latéral : couleur principale de la zone centrale | Inneres seitliches Perigonblatt: Hauptfarbe der mittleren Zone | Tépalo lateral interno: color principal de la zona central | | | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | | | |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|---|---|--|--|--|---------------|
| 30. (*) | PQ VG | (a), (c), (d), (e) | | | | |
| | Inner lateral tepal: main color of apical zone | Tépale interne latéral : couleur principale de la zone apicale | Inneres seitliches Perigonblatt: Hauptfarbe der apikalen Zone | Tépalo lateral interno: color principal de la zona apical | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 31. (*) | PQ VG | (a), (c), (d), (e) | | | | |
| | Inner lateral tepal: main color of basal zone | Tépale interne latéral : couleur principale de la zone basale | Inneres seitliches Perigonblatt: Hauptfarbe der basalen Zone | Tépalo lateral interno: color principal de la zona inferior | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 32. (*) | QN MG/VG | (+) (a), (c), (e) | | | | |
| | Inner lateral tepal: number of stripes | Tépale interne latéral : nombre de stries | Inneres seitliches Perigonblatt: Anzahl Streifen | Tépalo lateral interno: número de estrías | | |
| | absent or very few | nul ou très faible | fehlend oder sehr gering | ausente o muy bajo | Tesmars | 1 |
| | few | faible | gering | bajo | Alsdun01 | 3 |
| | medium | moyen | mittel | medio | Konplatina, Zalsabri | 5 |
| | many | élevé | groß | alto | ESM T122, Gataran | 7 |
| | very many | très élevé | sehr groß | muy alto | Zalsatista | 9 |
| 33. (*) | QN VG | (+) (a), (c), (e) | | | | |
| | Inner lateral tepal: area of striped zone | Tépale interne latéral : surface occupée par la zone striée | Inneres seitliches Perigonblatt: Fläche der gestreiften Zone | Tépalo lateral interno: superficie de la zona estriada | | |
| | small | petite | klein | pequeña | Tesmars | 3 |
| | medium | moyenne | mittel | media | Alsdun01, Zalsabri | 5 |
| | large | grande | groß | grande | Konplatina | 7 |
| 34. (*) | QN MG/MS/VG | (+) (a), (c), (e) | | | | |
| | Inner lateral tepal: length of stripes | Tépale interne latéral : longueur des stries | Inneres seitliches Perigonblatt: Länge der Streifen | Tépalo lateral interno: longitud de las estrías | | |
| | very short | très courte | sehr kurz | muy corta | | 1 |
| | short | courte | kurz | corta | Alsdun01, Tesmars | 3 |
| | medium | moyenne | mittel | media | Konaribean, Konplatina | 5 |
| | long | longue | lang | larga | Tesnoram, Zapriliarange | 7 |
| | very long | très longue | sehr lang | muy larga | | 9 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|--|---|---|---|--|---------------|
| 35. (*) | QN MG/VG | (+) (a), (c), (e) | | | | |
| | Inner lateral tepal: width of stripes | Tépale interne latéral : largeur des stries | Inneres seitliches Perigonblatt: Breite der Streifen | Tépalo lateral interno: anchura de las estrías | | |
| | very narrow | très étroite | sehr schmal | muy estrecha | | 1 |
| | narrow | étroite | schmal | estrecha | Alsdun01, Konaribean | 3 |
| | medium | moyenne | mittel | media | Konplatina, Tesmoonli | 5 |
| | broad | large | breit | ancha | Konantarct, Zalsatista | 7 |
| | very broad | très large | sehr breit | muy ancha | | 9 |
| 36. (*) | PQ VG | (a), (c), (d), (e) | | | | |
| | Inner median tepal: main color | Tépale interne médian : couleur principale | Inneres mittleres Perigonblatt: Hauptfarbe | Tépalo medio interno: color principal | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 37. (*) | PQ VG | (a), (c), (d), (e) | | | | |
| | Inner median tepal: secondary color | Tépale interne médian : couleur secondaire | Inneres mittleres Perigonblatt: Sekundärfarbe | Tépalo medio interno: color secundario | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indicar número de referencia) | | |
| 38. (*) | QN MG/VG | (a), (c), (e) | | | | |
| | Inner median tepal: number of stripes | Tépale interne médian : nombre de stries | Inneres mittleres Perigonblatt: Anzahl Streifen | Tépalo medio interno: número de estrías | | |
| | absent or very few | nul ou très faible | fehlend oder sehr gering | ausentes o muy bajo | Alsdun01, Tesmars | 1 |
| | few | faible | gering | bajo | Tesrome, Zalsabri | 3 |
| | medium | moyen | mittel | medio | ESM T122, Zanalatron | 5 |
| | many | élevé | groß | alto | Zalsatista | 7 |

| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|---------|-----------------------|--|---------------|
| 39. (*) | PQ | VG | (+) | (a), (c) | | | | |
| | Anther: color | Anthère : couleur | Anthere: Farbe | Antera: color | | | | |
| | greenish | verdâtre | grünlich | verdoso | | Konplatina, Tesmoonli | 1 | |
| | yellowish | jaunâtre | gelblich | amarillento | | Zalsabri | 2 | |
| | orange | orange | orange | naranja | | Alsdun01, Konaribean | 3 | |
| | purplish | violacée | purpurn | purpúreo | | Tespolar, Zalsanebli | 4 | |
| | blue | bleue | blau | azul | | Gataran, Konswitch | 5 | |
| | brownish | brunâtre | bräunlich | pardusco | | | 6 | |
| | medium grey | gris moyen | mittelgrau | gris medio | | | 7 | |
| | dark grey | gris foncé | dunkelgrau | gris oscuro | | | 8 | |
| 40. (*) | PQ | VG | | (a), (c), (d) | | | | |
| | Filament: main color | Filet : couleur principale | Staubfaden: Hauptfarbe | Filamento: color principal | | | | |
| | white | blanc | weiß | blanco | | Konantarct, Zalsabri | 1 | |
| | yellow | jaune | gelb | amarillo | | ESM T122, Gataran | 2 | |
| | orange | orange | orange | naranja | | Konaribean | 3 | |
| | orange red | rouge orangé | orangerot | rojo anaranjado | | Alsdun01, Zalsance | 4 | |
| | red | rouge | rot | rojo | | Tesronto, Zaprikate | 5 | |
| | pink | rose | rosa | rosa | | Kongrenday, Tesnoram | 6 | |
| | red purple | rouge pourpre | rotpurpurn | púrpura rojizo | | Konalegria, Tesrome | 7 | |
| | light purple | violet clair | hellpurpurn | púrpura claro | | Konplatina, Tesmoonli | 8 | |
| | medium purple | violet moyen | mittelpurpurn | púrpura medio | | Tesmars, Zalsatista | 9 | |
| 41. | QN | VG | (+) | (a), (c) | | | | |
| | Filament: number of spots | Filet : nombre de taches | Staubfaden: Anzahl Flecken | Filamento: número de manchas | | | | |
| | absent or very few | nul ou très faible | fehlend oder sehr wenige | ausentes o muy pocas | | | 1 | |
| | few | faible | wenige | pocas | | | 2 | |
| | medium | moyen | mittel | medias | | | 3 | |
| | many | élevé | viele | abundantes | | | 4 | |
| | very many | très élevé | sehr viele | muy abundantes | | | 5 | |

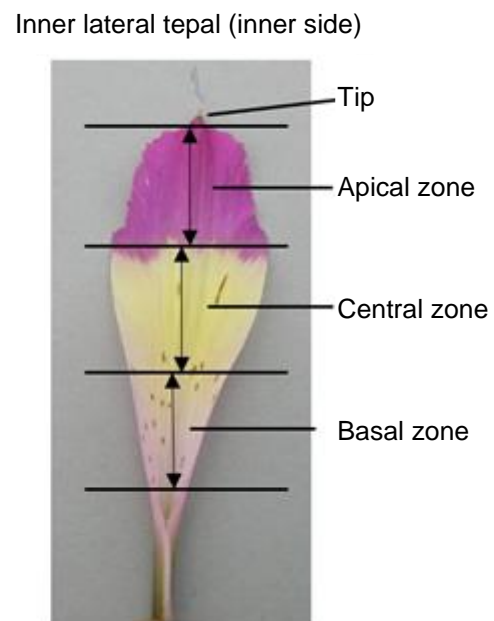
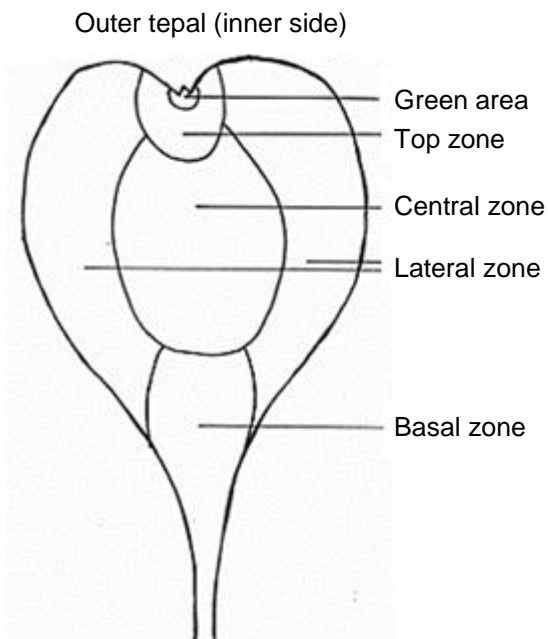
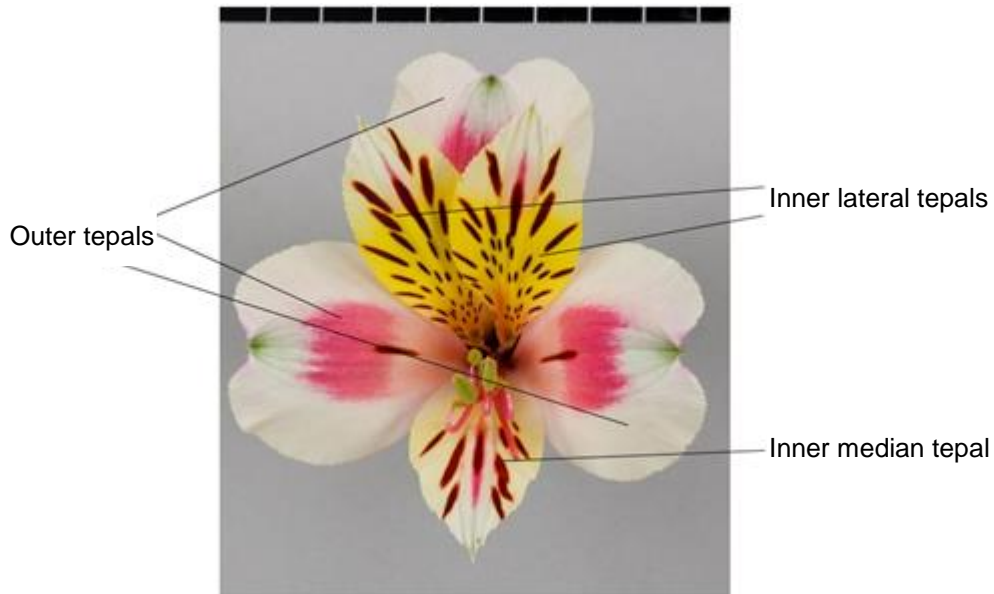
| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|--|----|--|----------|--|---|--|---------------|
| 42. (*) | QL | VG | (+) | (a), (c) | | | | |
| | Stigma: spots | | Stigmate : taches | | Narbe: Flecken | Estigma: manchas | | |
| | absent | | absentes | | fehlend | ausentes | | 1 |
| | present | | présentes | | vorhanden | presentes | | 9 |
| 43. (*) | QN | VG | (+) | (a), (c) | | | | |
| | Ovary: extent of anthocyanin coloration | | Ovaire : étendue de la pigmentation anthocyanique | | Fruchtknoten: Ausdehnung der Anthocyanfärbung | Ovario: extensión de la pigmentación antociánica | | |
| | absent or very small | | absente ou très petite | | fehlend oder sehr klein | ausente o muy pequeña | Konswitch, Tesmoonli | 1 |
| | small | | petite | | klein | pequeña | Konplatina, Zalsabri | 3 |
| | medium | | moyenne | | mittel | media | Alsdun01, Zalsatista | 5 |
| | large | | grande | | groß | grande | Konaribbean, Tesmars | 7 |
| | very large | | très grande | | sehr groß | muy grande | Tespale | 9 |

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

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

- (a) Observations should be made on the first fully developed stem when 50% of the flowers are open.
- (b) Observations should be made on leaves taken from the middle third of the stem.
- (c) Observations should be made when the first anther of the individual flower is open.



- (d) The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest surface area, the darker color is considered to be the main color.
- (e) Observations should be made on the inner side.

8.2 Explanations for individual characteristics

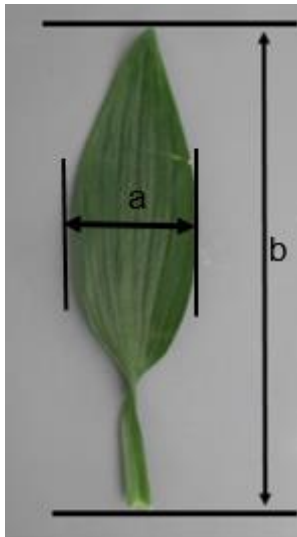
Ad. 1: Plant: height

Plant height should be observed from soil level to the top of the plant, including the flowers.

Ad. 2: Stem: thickness

Thickness should be assessed at the middle third of the stem.

Ad. 5: Leaf: length



a = Leaf: width
b = Leaf: length

Ad. 6: Leaf: width

See Ad. 5

Ad. 7: Leaf blade: attitude



3
semi-erect



5
horizontal



7
semi-drooping

Ad. 8: Leaf blade: greyish colored longitudinal stripes



1
absent



a = greyish colored stripe
9
present

Ad. 9: Leaf blade: variegation

The upper side of the leaf should be observed. The greyish colored stripe of the midrib is not regarded as variegation.



a = upper side



1
absent



9
present

Ad. 10: Umbel: length of rays

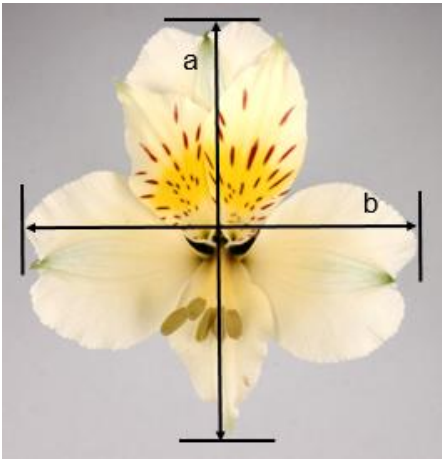
Observations should be made from the point of insertion to the base of the top flower bud.



Ad. 12: Flower: length of pedicel



Ad. 14: Flower: length in frontal view



a = Flower: length in frontal view
b = Flower: width in frontal view

Ad. 15: Flower: width in frontal view

See Ad. 14

Ad. 16: Flower: ratio length/width in frontal view



3
low



5
medium








7
high

Ad. 17: Flower: length in side view



Ad. 18: Outer tepal: shape of blade

| relative width | ← broadest part → | |
|----------------|--|--|
| | at middle | above middle |
| narrow |  <p>3 medium elliptic</p> |  <p>5 medium obovate</p> |
| medium |  <p>2 broad elliptic</p> |  <p>4 broad ovate</p> |
| broad |  <p>1 circular</p> | |

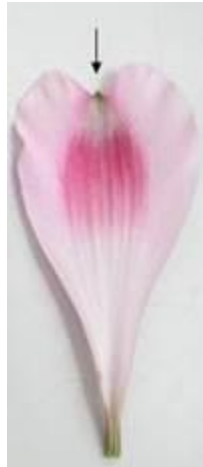
Ad. 19: Outer tepal: emargination



3
shallow



5
medium



7
deep

Ad. 21: Outer tepal: green area of outer side



1
absent or very small



2
small



3
medium



4
large

Ad. 26: Outer tepal: small stripes on marginal part of lateral zone of inner side



1
absent or very few



3
few



5
medium



7
many

Ad. 27: Outer tepal: large stripes on inner side (marginal zone excluded)







1
absent or very few

2
few

3
medium

4
many

Ad. 28: Inner lateral tepal: shape

| | | ← broadest part → | |
|----------------|--|--|--------------|
| | | at middle | above middle |
| relative width | | | |
| narrow |  <p style="text-align: center;">2 narrow elliptic</p> |  <p style="text-align: center;">4 narrow obovate</p> | |
| medium |  <p style="text-align: center;">1 medium elliptic</p> |  <p style="text-align: center;">3 medium obovate</p> | |

Ad. 32: Inner lateral tepal: number of stripes



Ad. 33: Inner lateral tepal: area of striped zone



Ad. 34: Inner lateral tepal: length of stripes

The longest stripes should be observed, excluding the stripe on the central vein.



Ad. 35: Inner lateral tepal: width of stripes

The widest stripes should be observed, excluding the stripe on the central vein.



Ad. 39: Anther: color

To be observed just before dehiscence.

Ad. 41: Filament: number of spots

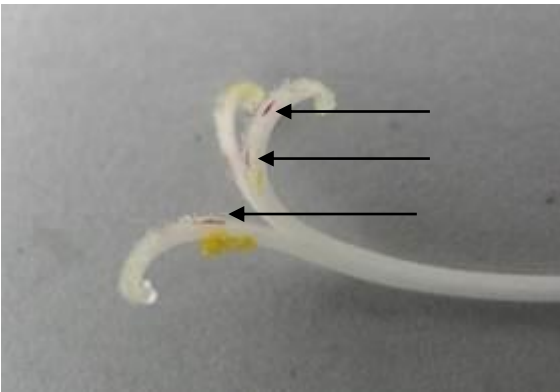


1
absent or very few

3
medium

5
very many

Ad. 42: Stigma: spots



Ad. 43: Ovary: extent of anthocyanin coloration



1
absent or very
small

3
small

5
medium

7
large

9
very large

9. Literature

Grunert, Ch., 1980: Das Blumenzwiebelbuch. Verlag Eugen Ulmer. Stuttgart, DE, x pp.

The Royal General Bulbgrowers' Association, 1991: International Checklist for Hyacinths and Miscellaneous Bulbs. Koninklijke Algemeene Vereeniging voor Bloembollencultuur. Hillegom, NL, pp. 15 to 47

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="Alstroemeria L."/> |
| 1.2 | Common name | <input type="text" value="Alstroemeria, Herb Lily"/> |
| 1.3 | Species: | <input type="text"/> |

| | | |
|----|---------------------------------------|----------------------|
| 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)

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

| | | |
|-------|-----------------------------------|-----|
| 4.2 | Method of propagating the variety | |
| 4.2.1 | Seed-propagated varieties | [] |
| 4.2.2 | Vegetative propagation | |
| (a) | <i>In vitro</i> propagation | [] |
| (b) | Division | [] |
| (c) | Other (state method) | [] |
| 4.2.3 | Other (Please provide details) | [] |
| | <input type="text"/> | |

| | | |
|-------------------------|-----------------|-------------------|
| 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: height (1) | | |
| very short | | 1 [] |
| very short to short | | 2 [] |
| short | Alsdun01, Tesnoram | 3 [] |
| short to medium | | 4 [] |
| medium | Konaribean, Tesrome | 5 [] |
| medium to tall | | 6 [] |
| tall | Konplatina, Zalsabri | 7 [] |
| tall to very tall | | 8 [] |
| very tall | | 9 [] |
| 5.2 Leaf blade: variegation (9) | | |
| absent | | 1 [] |
| present | | 9 [] |
| 5.3 Flower: main color (13) | | |
| white | Konantarct, Tesmoonli | 1 [] |
| yellow green | Kongrenday | 2 [] |
| light yellow | Gataran, Konwpearls | 3 [] |
| medium yellow | Konaribean | 4 [] |
| orange | ESM T122, Staqueen | 5 [] |
| light pink | Tesnoram | 6 [] |
| medium pink | Zalsabri | 7 [] |
| blue pink | Konswitch | 8 [] |
| orange red | Zalsance, Zapriiarange | 9 [] |
| red | Alsdun01 | 10 [] |
| purple red | Konalegria, Tesrome | 11 [] |
| light purple | Tesmars | 12 [] |
| medium purple | Konplatina | 13 [] |
| dark purple | Zalsatista | 14 [] |

| | | |
|-------------------------|-----------------|-------------------|
| 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>Plant: height</i> | <i>short</i> | <i>medium</i> |
| | | | |
| | | | |
| | | | |
| Comments: | | | |

| | | |
|-------------------------|-----------------|-------------------|
| 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 photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.

The key points to consider when taking a photograph of the candidate variety are:

- Indication of the date and geographic location
- Correct labeling (breeder's reference)
- Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)"

Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (<http://www.upov.int/tgp/en/>).

[The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]

| | | |
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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 [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

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

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature Date

[End of document]