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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

FREESIA

UPOV Code(s): FREES

Freesia Eckl. ex Klatt

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from the Netherlands
to be considered by the
Technical Committee
at its fifty-third session, to be held in Geneva,
from 2017-04-03 to 2017-04-05*

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

| <i>Botanical name</i> | <i>English</i> | <i>French</i> | <i>German</i> | <i>Spanish</i> |
|-------------------------------|----------------|---------------|---------------|----------------|
| <i>Freesia</i> Eckl. ex Klatt | Freesia | Freesia | Freesie | Freesia |

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 *Freesia* Eckl. ex Klatt.

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 corms able to produce plants to show all the characteristics in the first year of examination.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:
30 corms
- 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.

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 Each test should be designed to result in a total of at least 20 plants.

3.4.2 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 or parts of plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts of plants taken from each of 10 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 20 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) Spike: length (characteristic 11)
 - (c) Flower: type (characteristic 19)
 - (d) Perianth: main color of inner side of outer segment (characteristic 35)
with the following groups
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: yellow orange
 - Gr. 4: orange
 - Gr. 5: pink
 - Gr. 6: red
 - Gr. 7: violet
 - Gr. 8: blue violet
 - Gr. 9: blue
 - (e) Perianth: main color of inner side of inner segment (characteristic 43)
with the following groups
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: yellow orange
 - Gr. 4: orange
 - Gr. 5: pink
 - Gr. 6: red
 - Gr. 7: violet
 - Gr. 8: blue violet
 - Gr. 9: blue
- 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.

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)-(g) 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 | Fragrant Sunburst | 3 |
| | | medium | moyenne | mittel | media | Golden Passion | 5 |
| | | tall | haute | hoch | alta | Algarve | 7 |
| 2. | (*) | QN | MG/MS/VG | (a), (b) | | | |
| | | Leaf: length | Feuille : longueur | Blatt: Länge | Hoja: longitud | | |
| | | short | courte | kurz | corta | Grumpy | 3 |
| | | medium | moyenne | mittel | mediana | Anouk | 5 |
| | | long | longue | lang | larga | Pink Devotion | 7 |
| 3. | | QN | MG/MS/VG | (a), (b) | | | |
| | | Leaf: width | Feuille : largeur | Blatt: Breite | Hoja: anchura | | |
| | | narrow | étroite | schmal | estrecha | Lovely Lake | 3 |
| | | medium | moyenne | mittel | mediana | Golden Passion | 5 |
| | | broad | large | breit | ancha | Clementine | 7 |
| 4. | | QN | VG | (a), (b) | | | |
| | | Leaf: intensity of green color | Feuille : intensité de la couleur verte | Blatt: Intensität der Grünfärbung | Hoja: intensidad del color verde | | |
| | | light | claire | hell | claro | | 1 |
| | | medium | moyenne | mittel | intermedio | Pink Passion | 2 |
| | | dark | foncée | dunkel | oscuro | White Pearl | 3 |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|--------|--------------------------------------|----------|--|--|---------------------------------------|--|---------------|
| 5. (*) | QN | VG | (a), (b) | | | | |
| | Leaf: attitude of distal part | | Feuille : port de la partie distale | Blatt: Haltung des distalen Teils | Hoja: porte de la parte distal | | |
| | erect | | dressée | aufrecht | erecta | Golden Passion | 1 |
| | horizontal | | horizontale | waagrecht | horizontal | Red Passion | 2 |
| | drooping | | retombante | überhängend | colgante | Hofuni | 3 |
| 6. (*) | QN | MG/MS/VG | (+) | (a) | | | |
| | Peduncle: length | | Pédoncule : longueur | Blütenstandsstiel: Länge | Pedúnculo: longitud | | |
| | short | | court | kurz | corto | Vapogom | 3 |
| | medium | | moyen | mittel | mediano | Golden Passion | 5 |
| | long | | long | lang | largo | Red Mountain | 7 |
| 7. | QN | MG/MS/VG | (+) | (a) | | | |
| | Peduncle: thickness | | Pédoncule : épaisseur | Blütenstandsstiel: Dicke | Pedúnculo: grosor | | |
| | thin | | mince | dünn | fino | Vapogom | 1 |
| | medium | | moyen | mittel | medio | Golden Passion | 2 |
| | thick | | épais | dick | grueso | Moon River | 3 |
| 8. (*) | QN | MG/MS/VG | (+) | (a) | | | |
| | Peduncle: number of branches | | Pédoncule : nombre de rameaux | Blütenstandsstiel: Anzahl Triebe | Pedúnculo: número de ramas | | |
| | few | | petit | wenige | bajo | | 1 |
| | medium | | moyen | mittel | medio | | 2 |
| | many | | grand | viele | alto | | 3 |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|--|-----------------|---|--|---|--|---------------|
| 9. | QN | VG | (a) | | | | |
| | Peduncle: rugosity | | Pédoncule : rugosité | Blütenstandsstiel: Blasigkeit | Pedúnculo: rugosidad | | |
| | absent or weak | | absente ou très faible | fehlend oder gering | ausente o leve | Corvette | 1 |
| | medium | | moyenne | mittel | media | Zafretweet | 2 |
| | strong | | forte | stark | intensa | Lovely Romance | 3 |
| 10. (*) | QN | VG | (+) | (a) | | | |
| | Spike: angle with peduncle | | Épi : angle par rapport au pédoncule | Ähre: Winkel mit dem Blütenstandstiel | Espiga: ángulo con el pedúnculo | | |
| | small | | petit | klein | pequeño | | 3 |
| | medium | | moyen | mittel | mediano | Yellow Passion | 5 |
| | large | | grand | groß | grande | Corvette | 7 |
| 11. (*) | QN | MG/MS/VG | (+) | (a) | | | |
| | Spike: length | | Épi : longueur | Ähre: Länge | Espiga: longitud | | |
| | short | | court | kurz | corta | | 3 |
| | medium | | moyen | mittel | mediana | Yellow Passion | 5 |
| | long | | long | lang | larga | Clementine | 7 |
| 12. (*) | QN | MG/MS/VG | (a) | | | | |
| | Spike: number of flowers and buds | | Épi : nombre de fleurs et boutons | Ähre: Anzahl Blüten und Knospen | Espiga: número de flores y botones | | |
| | few | | petit | wenige | bajo | | 3 |
| | medium | | moyen | mittel | medio | Golden Passion | 5 |
| | many | | grand | viele | alto | Zantrechat | 7 |

| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|--|---|---|---|-------------------|---------|--|---------------|
| 13. (*) | QN | MG/VG | (+) | (a) | | | | |
| | Spike: length of rachis between first and second flower | Épi : longueur du rachis entre la première et la deuxième fleur | Ähre: Länge der Spindel zwischen erster und zweiter Blüte | Espiga: longitud del raquis entre la primera flor y la segunda | | | | |
| | short | courte | kurz | corto | Fragrant Sunburst | | 1 | |
| | medium | moyenne | mittel | mediano | Golden Passion | | 2 | |
| | long | longue | lang | largo | Pink Attraction | | 3 | |
| 14. | QN | MG/VG | (+) | (a) | | | | |
| | Spike: length of rachis between second and third flower | Épi : longueur du rachis entre la deuxième et la troisième fleur | Ähre: Länge der Spindel zwischen zweiter und dritter Blüte | Espiga: longitud del raquis entre la segunda flor y la tercera | | | | |
| | short | courte | kurz | corto | Fragrant Sunburst | | 1 | |
| | medium | moyenne | mittel | mediano | Golden Passion | | 2 | |
| | long | longue | lang | largo | Clementine | | 3 | |
| 15. (*) | QN | VG | (+) | (a) | | | | |
| | Spike: degree of zig-zag | Épi : degré du zig-zag | Ähre: Zickzack-Ausprägung | Espiga: grado de zigzag | | | | |
| | weak | faible | gering | leve | Sunsett River | | 1 | |
| | medium | moyen | mittel | medio | Clementine | | 2 | |
| | strong | fort | stark | intenso | Zafretweet | | 3 | |
| 16. (*) | QN | VG | (+) | (a) | | | | |
| | Spike: curvature of distal part | Épi : courbure de la partie distale | Ähre: Krümmung des distalen Teils | Espiga: curvatura de la parte distal | | | | |
| | absent or weak | nulle ou très faible | fehlend oder gering | ausente o leve | Zafretweet | | 1 | |
| | medium | moyenne | mittel | media | Lovely River | | 2 | |
| | strong | forte | stark | intensa | | | 3 | |

| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|---|-------|---|----------|---|---|--|---------------|
| 17. | QN | VG | (+) | (a) | | | | |
| | Spike: angle between the rows of flowers | | Épi : angle entre les rangs de fleurs | | Ähre: Winkel zwischen den Blütenreihen | Espiga: ángulo entre las hileras de flores | | |
| | absent or small | | nul ou petit | | fehlend oder klein | nulo o pequeño | Clementine | 1 |
| | medium | | moyen | | mittel | mediano | Zafretweet | 2 |
| | large | | grand | | groß | grande | White Floret | 3 |
| 18. (*) | QN | MG/VG | (+) | | | | | |
| | Flower bud: ratio length/width | | Bouton floral : rapport longueur/largeur | | Blütenknospe: Verhältnis Länge/Breite | Botón floral: relación longitud/anchura | | |
| | low | | petit | | klein | baja | Lovely Romance | 1 |
| | medium | | moyen | | mittel | media | Lovely River | 2 |
| | high | | grand | | groß | alta | Purple Velvet | 3 |
| 19. (*) | QN | VG | (+) | (a), (c) | | | | |
| | Flower: type | | Fleur : type | | Blüte: Typ | Flor: tipo | | |
| | single | | simple | | einfach | simple | Golden Passion | 1 |
| | semi-double | | semi-double | | halbgefüllt | semidoble | Clementine | 2 |
| | double | | double | | gefüllt | doble | Zafrevil | 3 |
| 20. | QN | VG | | (a) | | | | |
| | Flower: fragrance | | Fleur : parfum | | Blüte: Duft | Flor: fragancia | | |
| | absent or weak | | absent ou faible | | fehlend oder gering | ausente o leve | Delta River | 1 |
| | medium | | moyen | | mittel | media | Gold River | 2 |
| | strong | | fort | | stark | intensa | Belleville | 3 |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|--|---|--|--|----------------|--|---------------|
| 21. | QN | MG/MS/VG | (a), (c), (f) | | | | |
| | Bract: length | Bractée : longueur | Deckblatt: Länge | Bráctea: longitud | | | |
| | short | courte | kurz | corta | Moon River | | 1 |
| | medium | moyenne | mittel | mediana | Gold River | | 2 |
| | long | longue | lang | larga | | | 3 |
| 22. | QN | VG | (a), (c), (f) | | | | |
| | Bract: intensity of green color | Bractée : intensité de la couleur verte | Deckblatt: Intensität der Grünfärbung | Bráctea: intensidad del color verde | | | |
| | light | claire | hell | claro | Lovely River | | 1 |
| | medium | moyenne | mittel | intermedio | Red River | | 2 |
| | dark | foncée | dunkel | oscuro | Zafreblos | | 3 |
| 23. | QN | VG | (a), (c), (f) | | | | |
| | Bract: anthocyanin coloration | Bractée : pigmentation anthocyanique | Deckblatt: Anthocyanfärbung | Bráctea: pigmentación antociánica | | | |
| | absent or weak | absente ou faible | fehlend oder gering | ausente o leve | Avalanche | | 1 |
| | medium | moyenne | mittel | intermedia | Zanmunimba | | 2 |
| | strong | forte | stark | intensa | Zafrecost | | 3 |
| 24. (*) | QN | MG/MS/VG | (a), (c), (f) | | | | |
| | Perianth tube: length | Tube du périanthe : longueur | Röhre der Blütenhülle: Länge | Tubo del perianto: longitud | | | |
| | short | court | kurz | corto | | | 1 |
| | medium | moyen | mittel | mediano | Lovely River | | 2 |
| | long | long | lang | largo | Golden Passion | | 3 |
| 25. (*) | PQ | VG | (a), (c), (f) | | | | |
| | Perianth tube: main color | Tube du périanthe : couleur principale | Röhre der Blütenhülle: Hauptfarbe | Tubo del perianto: 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 (indíquese el número de referencia) | | | |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|---|--|--|--|--|---------------|
| 26. (*) | QN MG/MS/VG | (a), (c), (f) | | | | |
| | Perianth throat: length | Gorge du périanthe : longueur | Schlund der Blütenhülle: Länge | Garganta del perianto: longitud | | |
| | short | courte | kurz | corta | Anouk | 1 |
| | medium | moyenne | mittel | mediana | Zapogrum | 2 |
| | long | longue | lang | larga | White River | 3 |
| 27. (*) | QN MG/VG | (a), (c), (f) | | | | |
| | Perianth throat: width of distal part | Gorge du périanthe : largeur de la partie distale | Schlund der Blütenhülle: Breite des distalen Teils | Garganta del perianto: anchura de la parte distal | | |
| | narrow | étroite | schmal | estrecha | Zafretweet | 1 |
| | medium | moyenne | mittel | mediana | Corvette | 2 |
| | broad | large | breit | ancha | Clementine | 3 |
| 28. | PQ VG | (a), (c), (f) | | | | |
| | Perianth throat: main color of outer side | Gorge du périanthe : couleur principale de la face extérieure | Schlund der Blütenhülle: Hauptfarbe der Außenseite | Garganta del perianto: color principal de la cara externa | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | | |
| 29. (*) | PQ VG | (a), (c), (f) | | | | |
| | Perianth throat: main color of inner side | Gorge du périanthe : couleur principale de la face intérieure | Schlund der Blütenhülle: Hauptfarbe der Innenseite | Garganta del perianto: color principal de la cara interna | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | | |
| 30. (*) | QN VG | (+) (a), (c), (f) | | | | |
| | Perianth throat: number of stripes on inner side | Gorge du périanthe : nombre de stries sur la face intérieure | Schlund der Blütenhülle: Anzahl Streifen auf der Innenseite | Garganta del perianto: número de rayas en la cara interna | | |
| | few | petit | wenige | bajo | Sunsett River | 3 |
| | medium | moyen | mittel | medio | Red Passion | 5 |
| | many | grand | viele | alto | Clementine | 7 |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|---|-------|---|---|---|--|---------------|
| 31. (*) | QN | MG/VG | (a), (c), (d), (f) | | | | |
| | Perianth: length of outer segment | | Périanthe : longueur du segment extérieur | Blütenhülle: Länge des Außensegments | Perianto: longitud del segmento exterior | | |
| | short | | courte | kurz | corto | Red Passion | 3 |
| | medium | | moyenne | mittel | mediano | Golden Passion | 5 |
| | long | | longue | lang | largo | Hofuni | 7 |
| 32. (*) | QN | MG/VG | (a), (c), (d), (f) | | | | |
| | Perianth: width of outer segment | | Périanthe : largeur du segment extérieur | Blütenhülle: Breite des Außensegments | Perianto: anchura del segmento exterior | | |
| | narrow | | étroits | schmal | estrecho | Fragrant Sunburst | 3 |
| | medium | | moyens | mittel | mediano | Golden Passion | 5 |
| | broad | | larges | breit | ancho | Zafremijou | 7 |
| 33. | QN | MG/VG | (+) | (a), (c), (d), (f) | | | |
| | Perianth: ratio length/width of outer segment | | Périanthe : rapport longueur/largeur du segment extérieur | Blütenhülle: Verhältnis Länge/Breite des Außensegments | Perianto: relación longitud/anchura del segmento exterior | | |
| | low | | petit | klein | baja | | 1 |
| | medium | | moyen | mittel | media | | 2 |
| | high | | grand | groß | alta | | 3 |
| 34. (*) | QN | VG | (a), (c), (d), (f) | | | | |
| | Perianth: position of broadest part of outer segment | | Périanthe : position de la partie la plus large du segment extérieur | Blütenhülle: Position des breitesten Teils des Außensegments | Perianto: posición de la parte más ancha del segmento exterior | | |
| | towards base | | vers la base | zur Basis hin | hacia la base | | 1 |
| | at middle | | au milieu | in der Mitte | en el medio | Lovely Lake | 2 |
| | towards apex | | vers le sommet | zur Spitze hin | hacia el ápice | Boulevard | 3 |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|---|-------|---|--|---|--|---------------|
| 35. (*) | PQ | VG | (a), (c), (d), (e) | | | | |
| | Perianth: main color of inner side of outer segment | | Périanthe : couleur principale de la face intérieure du segment extérieur | Blütenhülle: Hauptfarbe der Innenseite des Außensegments | Perianto: color principal de la cara interna del segmento exterior | | |
| | RHS colour chart (indicate reference number) | | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | | |
| 36. (*) | PQ | VG | (a), (c), (d), (e), (f) | | | | |
| | Perianth: secondary color of inner side of outer segment (if present) | | Périanthe : couleur secondaire de la face intérieure du segment extérieur (si elle est présente) | Blütenhülle: Sekundärfarbe der Innenseite des Außensegments (falls vorhanden) | Perianto: color secundario de la cara interna del segmento exterior (si existe) | | |
| | RHS Colour Chart (indicate reference number) | | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | | |
| 37. (*) | PQ | VG | (+), (a), (c), (d), (f) | | | | |
| | Perianth: distribution of secondary color of inner side of outer segment | | Périanthe : distribution de la couleur secondaire de la face intérieure du segment extérieur | Blütenhülle: Verteilung der Sekundärfarbe der Innenseite des Außensegments | Perianto: distribución del color secundario de la cara interna de los segmentos exterior | | |
| | at base | | à la base | an der Basis | en la base | Lovely Lake | 1 |
| | flushed | | traces diffuses | flächig | difuso | Boulevard | 2 |
| | along veins | | le long des nervures | entlang der Adern | a lo largo de los nervios | Zafremijou | 3 |
| 38. (*) | QN | MG/VG | (a), (c), (d), (f) | | | | |
| | Perianth: length of inner segment | | Périanthe : longueur du segment intérieur | Blütenhülle: Länge des Innensegments | Perianto: longitud del segmento interior | | |
| | short | | court | kurz | corto | Port Salut | 3 |
| | medium | | moyen | mittel | mediano | Lovely Romance | 5 |
| | long | | long | lang | largo | Red Mountain | 7 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------|---|---|---|---|--|---------------|
| 39. (*) | QN MG/VG | (a), (c), (d), (f) | | | | |
| | Perianth: width of inner segment | Périanthe : largeur du segment intérieur | Blütenhülle: Breite des Innensegments | Perianto: anchura del segmento interior | | |
| | narrow | étroit | schmal | estrecho | Festival | 3 |
| | medium | moyen | mittel | mediano | Zapogrum | 5 |
| | broad | large | breit | ancho | Zafrebini | 7 |
| 40. (*) | QN MG/VG | (+) (a), (c), (d), (f) | | | | |
| | Perianth: ratio length/width of inner segment | Périanthe : rapport longueur/largeur du segment intérieur | Blütenhülle: Verhältnis Länge/Breite des Innensegments | Perianto: relación longitud/anchura del segmento interior | | |
| | low | petit | klein | baja | | 1 |
| | medium | moyen | mittel | media | | 2 |
| | high | grand | groß | alta | | 3 |
| 41. (*) | QN VG | (a), (c), (d), (f) | | | | |
| | Perianth: position of broadest part of inner segment | Périanthe : position de la partie la plus large du segment intérieur | Blütenhülle: Position des breitesten Teils des Innensegments | Perianto: posición de la parte más ancha del segmento interior | | |
| | towards base | vers la base | zur Basis hin | hacia la base | Lovely Lake | 1 |
| | at middle | au milieu | in der Mitte | en el medio | Zafrevil | 2 |
| | towards apex | vers le sommet | zur Spitze hin | hacia el ápice | | 3 |
| 42. (*) | QN VG | (+) (a), (c), (d), (f) | | | | |
| | Perianth: attitude of inner segment | Périanthe : port du segment intérieur | Blütenhülle: Haltung des Innensegments | Perianto: porte del segmento interior | | |
| | semi-erect | demi-dressé | halbaufrecht | semierecto | Lovely White | 1 |
| | horizontal | horizontal | waagerecht | horizontal | Golden Passion | 2 |
| | reflexed | réfléchi | gebogen | recurvado | | 3 |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|---|--|--|--|-----------------|--|---------------|
| 43. (*) | PQ | VG | (a), (c), (d), (e), (f) | | | | |
| | Perianth: main color of inner side of inner segment | Périanthe : couleur principale de la face intérieure du segment intérieur | Blütenhülle: Hauptfarbe der Innenseite des Innensegments | Perianto: color principal de la cara interna del segmento interior | | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | | | |
| 44. (*) | PQ | VG | (a), (c), (d), (e), (f) | | | | |
| | Perianth: secondary color of inner side of inner segment | Périanthe : couleur secondaire de la face intérieure du segment intérieur | Blütenhülle: Sekundärfarbe der Innenseite des Innensegments | Perianto: color secundario de la cara interna del segmento interior | | | |
| | RHS Colour Chart (indicate reference number) | Code RHS des couleurs (indiquer le numéro de référence) | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) | | | |
| 45. (*) | PQ | VG | (+) (a), (c), (d), (f) | | | | |
| | Perianth: distribution of secondary color of inner side of inner segment | Périanthe : distribution de la couleur secondaire de la face intérieure du segment intérieur | Blütenhülle: Verteilung der Sekundärfarbe der Innenseite des Innensegments | Perianto: distribución del color secundario de la cara interna del segmento interior | | | |
| | at base | à la base | an der Basis | en la base | Lovely Lake | 1 | |
| | flushed | traces diffuses | flächig | difuso | Pink Attraction | 2 | |
| | along veins | le long des nervures | entlang der Adern | a lo largo de los nervios | Zafrepapil | 3 | |
| 46. | QN | VG | (+) (a), (c), (d), (f) | | | | |
| | Perianth: area of secondary color at base of inner side of inner segment | Périanthe : surface de la couleur secondaire à la base de la face intérieure du segment intérieur | Blütenhülle: Fläche der Sekundärfarbe an der Basis der Innenseite des Innensegments | Perianto: superficie del color secundario en la base de la cara interna del segmento interior | | | |
| | small | petite | klein | pequeña | | 3 | |
| | medium | moyenne | mittel | mediana | | 5 | |
| | large | grande | groß | grande | | 7 | |

| | English | | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------|--|--|--|--|----------------|--|---------------|
| 47. (*) | PQ | VG | (a), (c), (f), (g) | | | | |
| | Filament: main color | Filet : couleur principale | Staubfaden: Hauptfarbe | Filamento: color principal | | | |
| | white | blanc | weiß | blanco | Clementine | 1 | |
| | yellow | jaune | gelb | amarillo | Yellow Passion | 2 | |
| | blue | bleu | blau | azul | | 3 | |
| 48. (*) | QL | VG | (+) (a), (c), (f), (g) | | | | |
| | Anther: main color | Anthère : couleur principale | Anthere: Hauptfarbe | Antera: color principal | | | |
| | white | blanche | weiß | blanco | Golden Passion | 1 | |
| | violet | violette | violett | violeta | Red Passion | 2 | |
| 49. (*) | PQ | VG | (a), (c), (e), (f), (g) | | | | |
| | Style: main color | Style : couleur principale | Griffel: Hauptfarbe | Estilo: color principal | | | |
| | white | blanc | weiß | blanco | Golden Passion | 1 | |
| | yellow | jaune | gelb | amarillo | Vancouver | 2 | |
| | blue | bleu | blau | azul | Purple Velvet | 3 | |
| 50. | QN | VG | (+) (a), (c), (f), (g) | | | | |
| | Stigma: position in relation to anthers | Style : position par rapport aux anthères | Griffel: Stellung im Verhältnis zu Antheren | Estigma: posición en relación con las anteras | | | |
| | below | en dessous | unterhalb | por debajo | Clementine | 1 | |
| | same level | au même niveau | in gleicher Höhe | al mismo nivel | Golden Passion | 2 | |
| | above | au-dessus | oberhalb | por encima | Red Passion | 3 | |
| 51. (*) | QN | MG/VG | (+) (a), (c), (f), (g) | | | | |
| | Stigma: length of lobes | Stigmate : longueur des lobes | Narbe: Länge der Lappen | Estigma: longitud de los lóbulos | | | |
| | short | courts | kurz | cortos | | 1 | |
| | medium | moyens | mittel | medianos | Vancouver | 2 | |
| | long | longs | lang | largos | Clementine | 3 | |

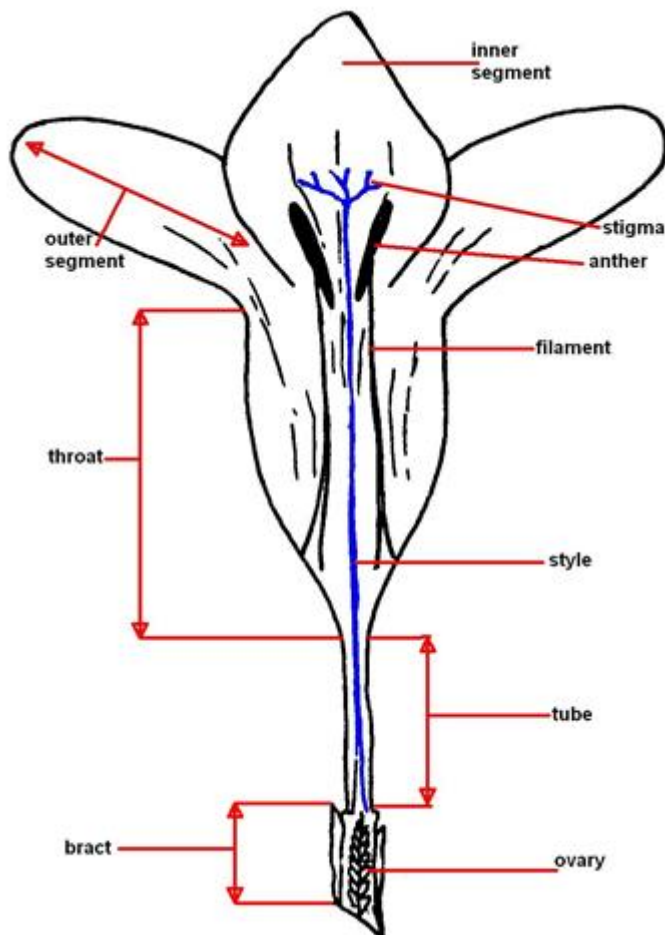
| | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|------------|---|-----------|---|---------------------------|--|--|--|---------------|
| 52. | QN | VG | (+) | (a), (c), (f), (g) | | | | |
| | Stigma: appearance of lobes | | Stigmate : aspect des lobes | | Narbe: Aussehen der Lappen | Estigma: aspecto de los lóbulos | | |
| | fine | | fin | | fein | finos | Pink Devotion | 1 |
| | medium | | moyen | | mittel | intermedios | Clementine | 2 |
| | coarse | | grossier | | grob | gruesos | | 3 |
| 53. | QN | VG | (+) | (a), (c), (f), (g) | | | | |
| | Stigma: color in relation to upper part of style | | Stigmate : couleur par rapport à la partie supérieure de style | | Narbe: Farbe im Verhältnis zum oberen Teil des Griffels | Estigma: color en relación con la parte superior del estilo | | |
| | lighter | | plus claire | | heller | más claro | Fragrant Sunburst | 1 |
| | same | | identique | | gleich | igual | Golden Passion | 2 |
| | darker | | plus foncée | | dunkler | más oscuro | Red Passion | 3 |

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) Observations should be made when 50% of the flowers on a spike have opened.
- (b) Observations on leaves should be made on the longest fully expanded leaves.
- (c) Observations on bracts and flower should be made on fully open flowers of the main spike.
- (d) Observations on the inner and outer segments should be made on the largest segment of the flowers of the main spike
- (e) 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 area, the darker color is considered to be the main color. In cases where the areas of the secondary and tertiary color are approximately the same, the darker color is considered to be the secondary color.
- (f)



- (g) Observations on filament, anther, style and stigma should be made on single and semi-double flowers only.

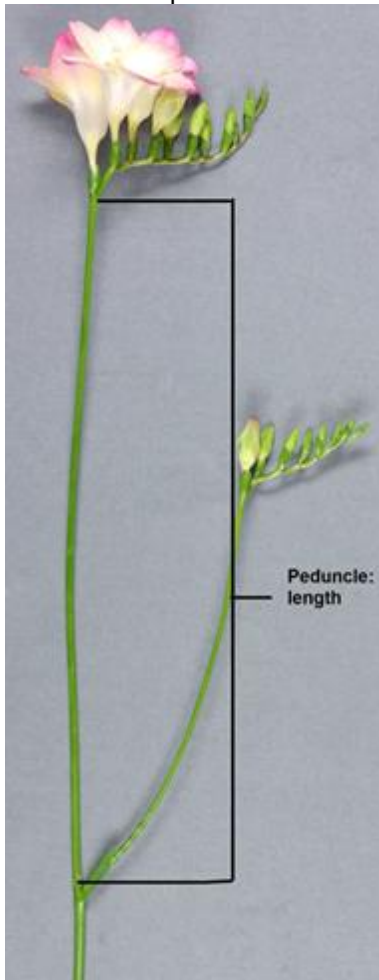
8.2 *Explanations for individual characteristics*

Ad. 1: Plant: height



Ad. 6: Peduncle: length

Peduncle length should be observed from the point of attachment of the upper lateral branch to the first flower of the spike



Ad. 7: Peduncle: thickness

Peduncle thickness should be observed at the middle third of the peduncle

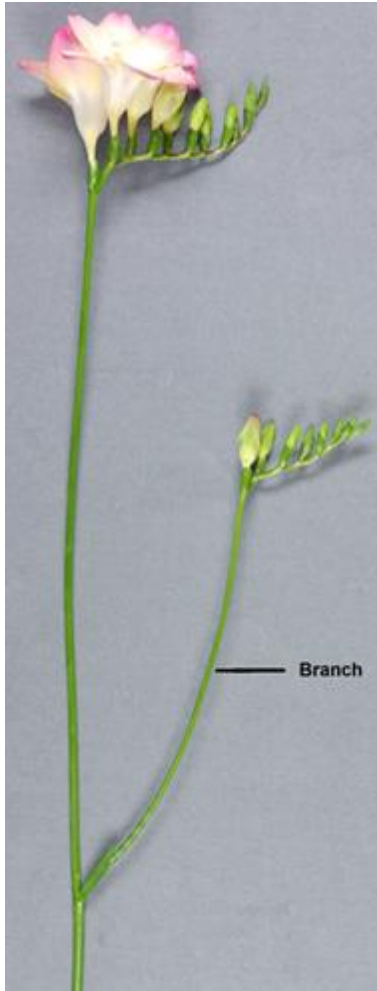
Ad. 8: Peduncle: number of branches

The total number of branches of the peduncle should be observed.

Note 1 (few): < 3 branches

Note 2 (medium): 3 – 5 branches

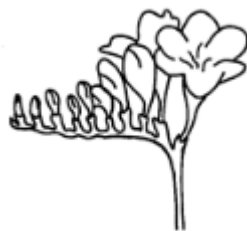
Note 3 (many): > 5 branches



Ad. 10: Spike: angle with peduncle



3
small

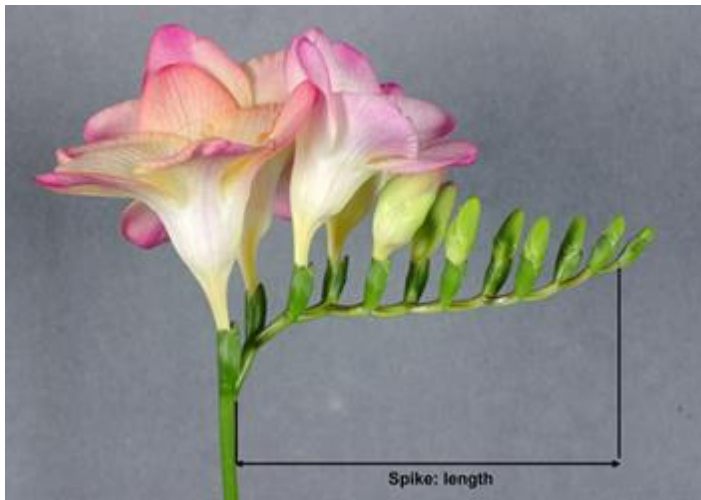


5
medium



7
large

Ad. 11: Spike: length



Ad. 13: Spike: length of rachis between first and second flower



Ad. 14: Spike: length of rachis between second and third flower



Ad. 15: Spike: degree of zig-zag



1
weak



2
medium



3
strong

Ad. 16: Spike: curvature at distal part



1
absent or weak



2
medium



3
strong

Ad. 17: Spike: angle between the rows of flowers



1
absent or small



2
medium



3
large

Ad. 18: Flower bud: ratio length/width

Observations on bud should be made on the first flower of the main spike just before opening of the bud.



1
low



2
medium



3
high

Ad. 19: Flower: type

Single flowers have up to 6 tepals. Semi-double flowers have between 7 and 9 tepals. Double flowers have more than 9 tepals.



1
single



2
semi-double



3
double

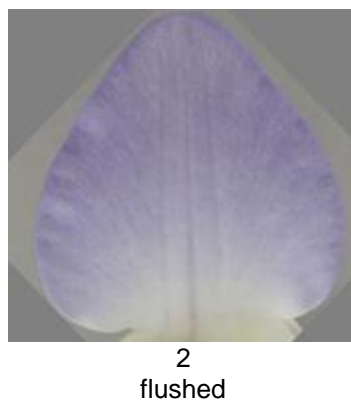
Ad. 30: Perianth throat: number of stripes on inner side



Ad. 33: Perianth: ratio length/width of outer segment



Ad. 37: Perianth: distribution of secondary color of inner side of outer segment



Ad. 40: Perianth: ratio length/width of inner segment



1
low



2
medium



3
high

Ad. 42: Perianth: attitude of inner segment



1
semi-erect



2
horizontal



3
reflexed

Ad. 45: Perianth: distribution of secondary color of inner side of inner segment

See Ad. 37

Ad. 46: Perianth: area of secondary color at base of inner side of inner segment



3
small



5
medium



7
large

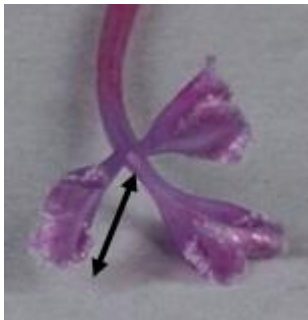
Ad. 48: Anther: main color

Observations on the color should be made just before dehiscence of the anther.

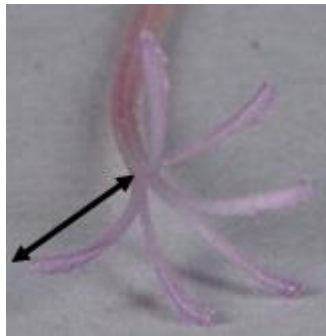
Ad. 50: Stigma: position in relation to anthers

Observations on the position of the stigma should be made just before dehiscence of the anthers.

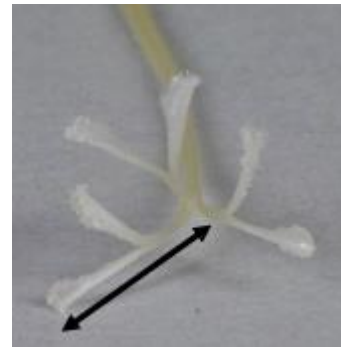
Ad. 51: Stigma: length of lobes



1
short



2
medium



3
long

Ad. 52: Stigma: appearance of lobes



1
fine



2
medium



3
coarse

Ad. 53: Stigma: color in relation to upper part of style

Observation on color of upper part of style should be made just before dehiscence of the anthers.

9. Literature

Bryan, John. E., 2002: Bulbs. Timber Press. Portland, Oregon, US, page 233 to page 235

Synge, Patrick M., 1961: Collins Guide to Bulbs. R & R Clark LTD, Edinburgh, UK, page 126 to page 127

Chittenden, Fred J., 1977: Dictionary of Gardening. Clarendon Press, Oxford, UK, page 836 to page 837

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="Freesia Eckl. ex Klatt"/> |
| 1.2 | Common name | <input type="text" value="Freesia"/> |
| 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"/> |

#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.

4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

- (a) Self-pollination
- (b) Hybrid
- (c) Other (please provide details)

4.2.2 Vegetative propagation

- (a) Corms
- (b) Other (state method)

4.2.3 Other (Please provide details)

| | | |
|-------------------------|-----------------|-------------------|
| 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 | Fragrant Sunburst | 3 [] |
| short to medium | | 4 [] |
| medium | Golden Passion | 5 [] |
| medium to tall | | 6 [] |
| tall | Algarve | 7 [] |
| tall to very tall | | 8 [] |
| very tall | | 9 [] |
| 5.2 Spike: length | | |
| (11) | | |
| very short | | 1 [] |
| very short to short | | 2 [] |
| short | | 3 [] |
| short to medium | | 4 [] |
| medium | Yellow Passion | 5 [] |
| medium to long | | 6 [] |
| long | Clementine | 7 [] |
| long to very long | | 8 [] |
| very long | | 9 [] |
| 5.3 Flower: type | | |
| (19) | | |
| single | Golden Passion | 1 [] |
| semi-double | Clementine | 2 [] |
| double | Zafrevil | 3 [] |

| Characteristics | Example Varieties | Note |
|--|-------------------|-------|
| 5.4 Perianth: main color of inner side of outer segment | | |
| (35) | | |
| RHS colour chart (indicate reference number) | | |
| white | | 1 [] |
| yellow | | 2 [] |
| yellow orange | | 3 [] |
| orange | | 4 [] |
| pink | | 5 [] |
| red | | 6 [] |
| violet | | 7 [] |
| blue violet | | 8 [] |
| 5.5 Perianth: main color of inner side of inner segment | | |
| (43) | | |
| RHS Colour Chart (indicate reference number) | | |
| white | | 1 [] |
| yellow | | 2 [] |
| yellow orange | | 3 [] |
| orange | | 4 [] |
| pink | | 5 [] |
| red | | 6 [] |
| violet | | 7 [] |
| blue violet | | 8 [] |
| blue | | 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>Plant: height</i> | <i>short</i> | <i>medium</i> |
| | | | |
| | | | |
| | | | |
| Comments: | | | |

| | | |
|-------------------------|-----------------|-------------------|
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#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]