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| **TG/168/4(proj.3)** |
| **ORIGINAL:** English |
| **DATE:** 2022-05-02 |

 |
| **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** |
|  | Geneva  |  |
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| **STATICE** |
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| UPOV Code(s): LIMON |

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| *Limonium* Mill., *Goniolimon* Boiss. and *Psylliostachys* (Jaub. & Spach) Nevski |

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| **GUIDELINES** |
|   |
| **FOR THE CONDUCT OF TESTS** |
|   |
| **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** |

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| --- |
| *prepared by experts from the Netherlands* |
| *to be considered by the* |
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| --- |
| *Technical Working Party for Ornamental Plants and Forest Trees* |

 |
| *at its fifty-fourth session, to be held virtually,* |
|

|  |
| --- |
| *from 2022-06-13 to 2022-06-17* |

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 |
| *Disclaimer: this document does not represent UPOV policies or guidance* |
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| Alternative names:\* |

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 |
| *Botanical name* | *English* | *French* | *German* | *Spanish* |
|

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| --- |
| *Limonium* Mill., *Goniolimon* Boiss. and *Psylliostachys* (Jaub. & Spach) Nevski |

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| Statice |

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| 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. |

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| 1. | Subject of these Test Guidelines |
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| These Test Guidelines apply to all varieties of *Limonium* Mill and *Goniolimon* Boiss. and *Psylliostachys* (Jaub. & Spach) Nevski and their hybrids. |

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| 2. | Material Required |
|  |   |
| 2.1 |

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| 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. |

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| 2.2 |

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| The material is to be supplied in the form of young plants. . |

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|  |   |
| 2.3 |

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

 |
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|  |

|  |
| --- |
| 20 plants |

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|  |   |
| 2.4 |

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

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| 2.5 |

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| 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. |

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| 3. | Method of Examination |
|  |   |
| *3.1* | *Number of Growing Cycles* |
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| 3.1.1 |

 | The minimum duration of tests should normally be a single growing cycle. |
|  |   |
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| 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* |
|  |   |
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 | 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. |
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| *3.4* | *Test Design* |
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| Each test should be designed to result in a total of at least 20 plants. |

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*3.5* | *Additional Tests* |
|  |   |
|  | Additional tests, for examining relevant characteristics, may be established. |

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| 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. |
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| 4.1.4 |

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| Number of Plants or Parts of Plants to be Examined |

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| 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. |

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| 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”): |
|  |   |
|  |

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| --- |
| 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 plantsVS: visual assessment by observation of individual plants or parts of plants |

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

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| 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:  |
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|

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| 4.2.2 |

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| 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. |

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| 4.2.3 |

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| 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. |

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| *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. |

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| 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: |
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| --- | --- | --- |
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| --- |
| (a) |

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| --- |
| Leaf: shape of blade (characteristic 5) |

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|

|  |
| --- |
| (b) |

 |  |

|  |
| --- |
| Inflorescence: type (characteristic 19) |

 |
|

|  |
| --- |
| (c) |

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| --- |
| Calyx: length (characteristic 23) |

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|

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| --- |
| (d) |

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|  |
| --- |
| Calyx: main color (characteristic 26) white yellow blue violet pink purple red red |

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| --- |
| (e) |

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| Corolla: color (characteristic 33) white yellow blue violet pink |

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| 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”. |

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| 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 | All relevant states of expression are presented in the characteristic. |
|  |   |
| 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. |

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| *6.5* | *Legend* |
|  |   |
|

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
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| **1** |

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| **2** |

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| **3** |

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| **4** |

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| **5** |

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| **6** |

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| **7** |

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| --- |
| **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 |

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| --- |
| Ausprägungsstufen |

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| --- |
| tipos de expresión |

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| 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 |

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| See Explanations on the Table of Characteristics in Chapter 8.2 |

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| 6 |

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| --- |
| (a)-(b) |

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| See Explanations on the Table of Characteristics in Chapter 8.1 |

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|  |   |  |  |
| 7 |

|  |
| --- |
| Not applicable |

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

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  |
|  |  |

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| --- |
| **Plant: height** |

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 |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Zastapolar | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Flamingo | 5 |
|  |  | medium to tall |  |  |  |  | 6 |
|  |  | tall |  |  |  | Nuno Joy | 7 |
|  |  | tall to very tall |  |  |  |  | 8 |
|  |  | very tall |  |  |  |  | 9 |
| **2.** |  | **QN** | **MG/MS/VG** |  |  |  |
|  |  |

|  |
| --- |
| **Plant: number of inflorescences** |

 |  |  |  |  |  |
|  |  | very few |  |  |  |  | 1 |
|  |  | very few to few |  |  |  |  | 2 |
|  |  | few |  |  |  | Zastashin | 3 |
|  |  | few to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Sinzii Silverish | 5 |
|  |  | medium to many |  |  |  |  | 6 |
|  |  | many |  |  |  | Flamingo | 7 |
|  |  | many to very many |  |  |  |  | 8 |
|  |  | very many |  |  |  |  | 9 |
| **3.** | **(\*)** | **QN** | **MG/MS** | **(+)** | **(b)** |  |
|  |  |

|  |
| --- |
| **Leaf: length** |

 |  |  |  |  |  |
|  |  | very short |  |  |  | Zalimsal | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Zastafro | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Flamingo | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  | Nuno Joy | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **4.** | **(\*)** | **QN** | **MG/MS** | **(+)** | **(b)** |  |
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| **Leaf: width** |

 |  |  |  |  |  |
|  |  | very narrow |  |  |  |  | 1 |
|  |  | very narrow to narrow |  |  |  |  | 2 |
|  |  | narrow |  |  |  | Hildiaange | 3 |
|  |  | narrow to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Hilalarizo | 5 |
|  |  | medium to broad |  |  |  |  | 6 |
|  |  | broad |  |  |  | Sinzii Blueish | 7 |
|  |  | broad to very broad |  |  |  |  | 8 |
|  |  | very broad |  |  |  |  | 9 |
| **5.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  |
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| **Leaf: shape of blade** |

 |  |  |  |  |  |
|  |  | elliptic |  |  |  | BALL452013 | 1 |
|  |  | broad ovate to deltoid |  |  |  | Zalimsal | 2 |
|  |  | narrow obovate |  |  |  | Hildiaange | 3 |
|  |  | obovate |  |  |  | Sinzii Blueish | 4 |
| **6.** | **(\*)** | **QN** | **VG** |  | **(b)** |  |
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| **Leaf: intensity of green color** |

 |  |  |  |  |  |
|  |  | very light |  |  |  |  | 1 |
|  |  | very light tot light |  |  |  |  | 2 |
|  |  | light |  |  |  | Sinzii Lavenderish | 3 |
|  |  | light to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Hilalkansa | 5 |
|  |  | medium to dark |  |  |  |  | 6 |
|  |  | dark |  |  |  | Hildiaange | 7 |
|  |  | dark to very dark |  |  |  |  | 8 |
|  |  | very dark |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **7.** |  | **QN** | **VG** |  | **(b)** |  |
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| **Leaf: glossiness** |

 |  |  |  |  |  |
|  |  | absent or very weak |  |  |  |  | 1 |
|  |  | very weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Sinzii Lavenderish | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | DLISAOSHPI | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | DLIMPUDBLU | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |
| **8.** |  | **QN** | **VG** |  | **(b)** |  |
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| **Leaf: density of hairiness of upper side** |

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 |  |  |
|  |  | absent or very weak |  |  |  | Flamingo | 1 |
|  |  | weak |  |  |  | Zastasky | 2 |
|  |  | medium |  |  |  | Sinzii Silverish | 3 |
|  |  | strong |  |  |  |  | 4 |
|  |  | very strong |  |  |  |  | 5 |
| **9.** |  | **QN** | **VG** |  | **(b)** |  |
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| **Leaf: density of hairiness of margin** |

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 |  |  |
|  |  | absent or very weak |  |  |  | Flamingo | 1 |
|  |  | weak |  |  |  | Zastafro | 2 |
|  |  | medium |  |  |  | Sinzii Blueish | 3 |
|  |  | strong |  |  |  | Zastasky | 4 |
|  |  | very strong |  |  |  |  | 5 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **10** |  | **QN** | **VG** |  | **(b)** |  |
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| **Leaf: undulation of margin** |

 |  |  |  |  |  |
|  |  | absent or very weak |  |  |  | Sinzii Silverish | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Sinzii Lavenderish | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Zastasky | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Sinzii Blueish | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |
| **11** | **(\*)** | **QN** | **VG** |  | **(b)** |  |
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| **Leaf: intensity of lobing** |

 |  |  |  |  |  |
|  |  | absent or very weak |  |  |  | Flamingo | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Sinzii Lavenderish | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Zastasky | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |
| **12** |  | **QN** | **VG** |  | **(b)** |  |
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| **Petiole: intensity of anthocyanin coloration** |

 |  |  |  |  |  |
|  |  | absent or very weak |  |  |  | Zastasky | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Sinzii Blueish | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Hildiaanouch | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Elisajoy | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **13** | **(\*)** | **QN** | **MG/MS** | **(+)** | **(a)** |  |
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| **Inflorescence: length of peduncle** |

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 |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Zalimsal | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Flamingo | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | long |  |  |  |  | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |
| **14** |  | **QN** | **MG/MS** | **(+)** | **(a)** |  |
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| **Inflorescence: thick-ness of peduncle** |

 |  |  |  |  |  |
|  |  | very thin |  |  |  |  | 1 |
|  |  | thin |  |  |  |  | 2 |
|  |  | medium |  |  |  | Sinzii Lavenderish | 3 |
|  |  | thick |  |  |  |  | 4 |
|  |  | very thick |  |  |  |  | 5 |
| **15** |  | **QN** | **VG** |  | **(a)** |  |
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| **Inflorescence: density of hairiness of peduncle** |

 |  |  |  |  |  |
|  |  | absent or very sparse |  |  |  | Sinzii Lavenderish | 1 |
|  |  | very sparse to sparse |  |  |  |  | 2 |
|  |  | sparse |  |  |  | Zastashin | 3 |
|  |  | sparse to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to dense |  |  |  |  | 6 |
|  |  | dense |  |  |  |  | 7 |
|  |  | dense to very dense |  |  |  |  | 8 |
|  |  | very dense |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **16** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  |
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| **Inflorescence: width of wing of peduncle** |

 |  |  |  |  |  |
|  |  | absent or very narrow |  |  |  | Flamingo | 1 |
|  |  | narrow |  |  |  | Zastasky | 2 |
|  |  | medium |  |  |  | Zastafro | 3 |
|  |  | broad |  |  |  | Sinzii Blueish | 4 |
|  |  | very broad |  |  |  |  | 5 |
| **17** |  | **QN** | **VG** |  | **(a)** |  |
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| **Inflorescence: degree of undulation of margin of wing of peduncle** |

 |  |  |  |  |  |
|  |  | absent or very weak |  |  |  | Fulimmalte | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  |  | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Zastasky | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |
| **18** |  | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  |
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| **Inflorescence: length of stipules at first branch** |

 |  |  |  |  |  |
|  |  | absent or very short |  |  |  | Hildiaange | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Flamingo | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  | Sinzii Lavenderish | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  | Sinzii Blueish | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **19** | **(\*)** | **PQ** | **VG** | **(+)** |  |  |
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| **Inflorescence: type** |

 |  |  |  |  |  |
|  |  | type I |  |  |  | Hilalkansa | 1 |
|  |  | type II |  |  |  | Zastasky | 2 |
|  |  | type III |  |  |  | Limonium perezii | 3 |
|  |  | type IV |  |  |  | Zalimred | 4 |
|  |  | type V |  |  |  | Limonium bellidifolium | 5 |
|  |  | type VI |  |  |  | Phylliostachys suworowii | 6 |
| **20** |  | **QN** | **VG** |  | **(a)** |  |
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| **Inflorescence: degree of ramification of peduncle** |

 |  |  |  |  |  |
|  |  | very weak |  |  |  |  | 1 |
|  |  | very weak to weak |  |  |  |  | 2 |
|  |  | weak |  |  |  | Zastocella | 3 |
|  |  | weak to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Sinzii Blueish | 5 |
|  |  | medium to strong |  |  |  |  | 6 |
|  |  | strong |  |  |  | Hildiaange | 7 |
|  |  | strong to very strong |  |  |  |  | 8 |
|  |  | very strong |  |  |  |  | 9 |
| **21** | **(\*)** | **QN** | **VG** |  | **(a)** |  |
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| **Inflorescence: attitude of lateral branches** |

 |  |  |  |  |  |
|  |  | erect |  |  |  |  | 1 |
|  |  | erect to semi-erect |  |  |  |  | 2 |
|  |  | semi-erect |  |  |  |  | 3 |
|  |  | semi-erect to horizontal |  |  |  |  | 4 |
|  |  | horizontal |  |  |  |  | 5 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **22** | **(\*)** | **QN** | **MG/VG** |  | **(a)** |  |
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| **Inflorescence: number of flowers** |

 |  |  |  |  |  |
|  |  | very few |  |  |  |  | 1 |
|  |  | very few to few |  |  |  |  | 2 |
|  |  | few |  |  |  |  | 3 |
|  |  | few to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Hilalkansa | 5 |
|  |  | medium to many |  |  |  |  | 6 |
|  |  | many |  |  |  | BALL452013 | 7 |
|  |  | many to very many |  |  |  |  | 8 |
|  |  | very many |  |  |  |  | 9 |
| **23** |  | **QN** | **MG/MS** | **(+)** |  |  |
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| **Calyx: length** |

 |  |  |  |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  |  | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Hilsinpipp | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  | Zastafro | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |
| **24** | **(\*)** | **QN** | **MG/MS** | **(+)** |  |  |
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| **Calyx: diameter** |

 |  |  |  |  |  |
|  |  | very small |  |  |  |  | 1 |
|  |  | very small to small |  |  |  |  | 2 |
|  |  | small |  |  |  | BALL452013 | 3 |
|  |  | small to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Sinzii Blueish | 5 |
|  |  | medium to large |  |  |  |  | 6 |
|  |  | large |  |  |  |  | 7 |
|  |  | large to very large |  |  |  |  | 8 |
|  |  | very large |  |  |  |  | 9 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **25** | **(\*)** | **PQ** | **VG** | **(+)** |  |  |
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| **Calyx: shape** |

 |  |  |  |  |  |
|  |  | campanulate |  |  |  | DLISAOSHPI | 1 |
|  |  | funnel shaped |  |  |  | Zastasky | 2 |
|  |  | open campanulate |  |  |  |  | 3 |
| **26** | **(\*)** | **PQ** | **VG** |  |  |  |
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| **Calyx: main color** |

 |  |  |  |  |  |
|  |  | RHS Colour Chart (indicate reference number) |  |  |  |  |  |
| **27** |  | **PQ** | **VG** | **(+)** |  |  |
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| **Calyx: color of midrib** |

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 |  |  |
|  |  | white |  |  |  |  | 1 |
|  |  | yellow |  |  |  |  | 2 |
|  |  | blue |  |  |  |  | 3 |
|  |  | violet |  |  |  |  | 4 |
|  |  | pink |  |  |  |  | 5 |
|  |  | purple red |  |  |  |  | 6 |
|  |  | red |  |  |  |  | 7 |
| **28** |  | **QL** | **VG** | **(+)** |  |  |
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| **Corolla: type** |

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 |  |  |
|  |  | single |  |  |  |  | 1 |
|  |  | double |  |  |  |  | 2 |
| **29** |  | **QN** | **MG/VG** |  |  |  |
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| **Corolla: length in relation to calyx** |

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 |  |  |
|  |  | similar or smaller |  |  |  |  | 1 |
|  |  | slightly longer |  |  |  |  | 2 |
|  |  | one and half times longer |  |  |  |  | 3 |
|  |  | twice as long |  |  |  |  | 4 |
|  |  | three times or more longer |  |  |  |  | 5 |
|  |  | not clearly visible |  |  |  |  | 6 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **30** |  | **QN** | **MG/MS** |  |  |  |
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| **Corolla: diameter** |

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 |  |  |
|  |  | very narow |  |  |  |  | 1 |
|  |  | very narrow to narrow |  |  |  |  | 2 |
|  |  | narrow |  |  |  |  | 3 |
|  |  | narrow to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to broad |  |  |  |  | 6 |
|  |  | broad |  |  |  |  | 7 |
|  |  | broad to very broad |  |  |  |  | 8 |
|  |  | very broad |  |  |  |  | 9 |
| **31** |  | **PQ** | **VG** | **(+)** |  |  |
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| **Corolla: arrangement of lobes** |

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|  |  | free |  |  |  |  | 1 |
|  |  | touching |  |  |  |  | 2 |
|  |  | overlapping |  |  |  |  | 3 |
| **32** |  | **QN** | **VG** |  |  |  |
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| **Corolla:incision of the apex of corolla lobes** |

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 |  |  |
|  |  | absent |  |  |  |  | 1 |
|  |  | present |  |  |  |  | 9 |
| **33** | **(\*)** | **PQ** | **VG** |  |  |  |
|  |  |

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| **Corolla: color** |

 |  |  |  |  |  |
|  |  | RHS Colour Chart (indicate reference number) |  |  |  |  |  |
| **34** |  | **PQ** | **VG** |  |  |  |
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| **Flower: position of stigma relative to anthers** |

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 |  |  |
|  |  | above |  |  |  | Flamingo | 1 |
|  |  | same level |  |  |  | DLISAOSHPI | 2 |
|  |  | below |  |  |  | Zastasky | 3 |
|  |  | no stigma or anthers present |  |  |  |  | 4 |

|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **35** |  | **QL** | **VG** | **(+)** |  |  |
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| **Stigma: type** |

 |  |  |  |  |  |
|  |  | cob type |  |  |  | Sinzii Lavenderish | 1 |
|  |  | papillate type |  |  |  | Zastasky | 2 |
|  |  | capitate type |  |  |  |  | 3 |
| **36** |  | **QN** | **VG** |  |  |  |
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| **Flower: fragrance** |

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 |  |  |
|  |  | absent or weak |  |  |  | Zastasky | 1 |
|  |  | medium |  |  |  | Hildiaange | 2 |
|  |  | strong |  |  |  |  | 3 |
| **37** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** |  |  |
|  |  |

|  |
| --- |
| **Time of beginning of flowering** |

 |  |  |  |  |  |
|  |  | very early |  |  |  |  | 1 |
|  |  | very early to early |  |  |  |  | 2 |
|  |  | early |  |  |  | Zastasky | 3 |
|  |  | early to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  |  | 5 |
|  |  | medium to late |  |  |  |  | 6 |
|  |  | late |  |  |  | DLISAOSHPI | 7 |
|  |  | late to very late |  |  |  |  | 8 |
|  |  | very late |  |  |  |  | 9 |

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| 8. | Explanations on the Table of Characteristics |
|   |
| *8.1* | *Explanations covering several characteristics* |
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| --- |
| Unless otherwise indicated, all characteristics should be observed at the time of full flowering. |

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|  | Characteristics containing the following key in the Table of Characteristics should be examined as indicated below: |
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| (a) |

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| To be observed on the plant at its maximum height (the first inflorescences often are shorter than the later ones) |

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| --- |
| (b) |

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| To be observed on the fully grown leaves in the middle third of the rosette. |

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| *8.2* |

 | *Explanations for individual characteristics* |
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| Ad. 1: Plant: heightTo be observed in the trial. From the base of the plant to the upper side of the inflorescence. Highest stems to be ignored; observe the average height. Be aware that the first inflorescence can be shorter than later formed inflorescence. |

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| Ad. 3: Leaf: lengthmeasure from base (incl. petiole) to the top.wordml://76.png |

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| Ad. 4: Leaf: widthmeasure on the widest part of the leaf, at a right angle to the midveinewordml://77.png |

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| Ad. 5: Leaf: shape of bladewordml://78.png |

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| Ad. 13: Inflorescence: length of peduncleMeasure from the base of the plant to the first branch of the inflorescence. |

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| Ad. 14: Inflorescence: thick-ness of peduncleto be measured (with callipers) in the middle third of the peduncle, excluding wings. |

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| Ad. 16: Inflorescence: width of wing of peduncleto be measured at the middle third of the plant length |

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| Ad. 18: Inflorescence: length of stipules at first branchto be measured from the base of the largest stipule to its top. |

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| Ad. 19: Inflorescence: typewordml://79.pngwordml://80.png |

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| Ad. 23: Calyx: lengthobserve the overall shape and choose a representative formed calyx if necessary. measure the lenght over the longest part of the calyx.See picture at Ad. 24 |

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| --- |
| Ad. 24: Calyx: diameterobserve the overall shape and choose a representative formed calyx if necessary. measure the diameter (width) over the widest part of the calyx.wordml://81.png |

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| Ad. 25: Calyx: shapewordml://82.png |

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| Ad. 27: Calyx: color of midribwordml://83.png |

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| Ad. 28: Corolla: typewordml://84.png |

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| Ad. 31: Corolla: arrangement of lobeswordml://85.png |

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| --- |
| Ad. 35: Stigma: typewordml://86.pngTo be observed on top of stigma (assessed under a microscope) |

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| Ad. 37: Time of beginning of floweringobserve when 30% of inflorescences are in flower |

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| 9. | Literature |

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| Anonymous, 1960:  “*Limonium* Mill.,” in:  Pareys Blumengärtnerei, 2. Band, Ed. F. Encke;  Parey, Berlin and Hamburg, pp. 339-342Anonymous, 1972:  “*Limonium* Miller,” in Flora Europaea Vol. 3, Ed. Tutin, Heywood, a.o.; Cambridge Univ. Press, pp. 38-50Anonymous, 1977:  “Limonium,” in:  Dictionary of Gardening Vol. 2 (2nd ed.), Ed. Chittenden;  Clarendon Press, Oxford, pp. 1179-1181Armitage, A.M. & Laushman, 2008:  Limonium in: Specialty Cut Flowers;  Varsity Press/Timber Press, Portland, Oregon, pp. 106-114 and 209-214Boom, B. K., 1970:  “Statice & Limonium,” in:  Flora der gekweekte kruidachtige gewassen;  Veeman, Wageningen, pp. 202-203Griffiths, M., (Ed.), 1994:  Index of Garden Plants;  Royal Hort. Soc., pp. 674-676Morgan, E., & Funnell, K. (2018). Limonium. Ornamental Crops, 513–527. doi:10.1007/978-3-319-90698-0\_21   |

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| 10. | Technical Questionnaire |

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

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|   |
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|  |  |
| --- | --- |
|  | Application date:(not to be filled in by the applicant) |
| TECHNICAL QUESTIONNAIREto be completed in connection with an application for plant breeders' rights |

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| --- | --- | --- | --- | --- |
|  |  |   |  |  |
| 1. | Subject of the Technical Questionnaire |
|  |  |  |   |  |
|  |

|  |
| --- |
| 1.1.1 |

 | Botanical name |

|  |
| --- |
| *Limonium* Mill., *Goniolimon* Boiss. and *Psylliostachys* (Jaub. & Spach) Nevski |

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| [  ] |

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| 1.1.2 |

 | Common name |

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| --- |
| Statice |

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| 1.2.1 |

 | Botanical name |

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| --- |
| Limonium Mill. |

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| [  ] |

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| 1.2.2 |

 | Common name |

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| 1.2.3 |

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| --- |
| Species (please indicate):  |

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|  |  |  |   |  |
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| --- |
| 1.3.1 |

 | Botanical name |

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| --- |
| Goniolimon Boiss. |

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| 1.3.2 |

 | Common name |

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| 1.3.3 |

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| --- |
| Species (please indicate):  |

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|  |
| --- |
| 1.4.1 |

 | Botanical name |

|  |
| --- |
| Psylliostachys (Jaub. & Spach) Nevski |

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| --- |
| [  ] |

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| 1.4.2 |

 | Common name |

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| 1.4.3 |

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| --- |
| Species (please indicate):  |

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|  |  |   |  |  |
| 2. | Applicant |
|  |  |  |   |  |
|  | Name |  |  |
|  |  |  |   |  |
|  | Address |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |   |  |
|  | Telephone No. |  |  |
|  |  |  |   |  |
|  | Fax No. |  |  |
|  |  |  |   |  |
|  | E-mail address |  |  |
|  |  |  |   |  |
|  | Breeder (if different from |  |  |
|  | applicant) |  |  |
|  |  |  |   |  |

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|  |  |  |   |  |
| 3. | Proposed denomination and breeder's reference |
|  |  |  |   |  |
|  | Proposed denomination |  |  |
|  | (if available) |  |  |
|  |  |  |   |  |
|  | Breeder's reference |  |  |
|  |  |  |   |  |

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

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| #4. |

 | Information on the breeding scheme and propagation of the variety |
|  |  |   |
|  | 4.1 | Breeding scheme |
|  | Variety resulting from:  |
|  |

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

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| 4.1.1 |

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|  |
| --- |
| Crossing  |

 |  |
|

|  |
| --- |
| (a) |

 |

|  |
| --- |
| controlled cross  |

 | [ ] |
|  |

|  |
| --- |
| (please state parent variety)(…………………..……………..…)                          x        (……………..…………………..…)female parent                                                                     male parent |

 |
|

|  |
| --- |
| (b) |

 |

|  |
| --- |
| partially known cross  |

 | [ ] |
|  |

|  |
| --- |
| (please state known parent variety(ies))(…………………..……………..…)                          x        (……………..…………………..…)female parent                                                                     male parent |

 |
|

|  |
| --- |
| (c) |

 |

|  |
| --- |
| unknown cross  |

 | [ ] |
|

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| --- |
| 4.1.2 |

 |

|  |
| --- |
| Mutation (please state parent variety) |

 | [ ] |
|  |      |
|  |  |
|

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| --- |
| 4.1.3 |

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| --- |
| Discovery and development (please state where and when discovered and how developed) |

 | [ ] |
|  |      |
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| 4.1.4 |

 | Other(Please provide details) | [ ] |
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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

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|  |  |   |
|  | 4.2 | Method of propagating the variety |
|  |

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| 4.2.1 |

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| --- |
| Seed-propagated varieties |

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| 4.2.2 |

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|  |
| --- |
| Vegetative propagation |

 |  |
|

|  |
| --- |
| (a) |

 |

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| --- |
| Cuttings |

 | [ ] |
|

|  |
| --- |
| (b) |

 |

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| --- |
| *In vitro* propagation |

 | [ ] |
|

|  |
| --- |
| (c) |

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| --- |
| Other (state method) |

 | [ ] |
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| 4.2.3 |

 | Other(Please provide details) | [ ] |
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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

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| --- | --- |
| 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 |
| --- | --- | --- | --- |
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| **5.1** |

|  |
| --- |
| **(1)** |

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| **Plant: height** |

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| --- |
| very short |

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| 1 [   ] |

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| --- |
| very short to short |

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| 2 [   ] |

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|  |
| --- |
| short |

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|  |
| --- |
| Zastapolar |

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| --- |
| 3 [   ] |

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|  |

|  |
| --- |
| short to medium |

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| 4 [   ] |

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| --- |
| medium |

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| --- |
| Flamingo |

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| 5 [   ] |

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| --- |
| medium to tall |

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| --- |
| 6 [   ] |

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| --- |
| tall |

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| --- |
| Nuno Joy |

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| --- |
| 7 [   ] |

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| --- |
| tall to very tall |

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| --- |
| 8 [   ] |

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|  |
| --- |
| very tall |

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| 9 [   ] |

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| **5.2** |

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| **(5)** |

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| **Leaf: shape of blade** |

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|  |

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| --- |
| elliptic |

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| --- |
| BALL452013 |

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| --- |
| 1 [   ] |

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| --- |
| broad ovate to deltoid |

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|  |
| --- |
| Zalimsal |

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| --- |
| 2 [   ] |

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| --- |
| narrow obovate |

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| --- |
| Hildiaange |

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| --- |
| 3 [   ] |

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| --- |
| obovate |

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| --- |
| Sinzii Blueish |

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| --- |
| 4 [   ] |

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| --- |
| **5.3** |

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| **(19)** |

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| --- |
| **Inflorescence: type** |

 |  |  |
|  |

|  |
| --- |
| type I |

 |

|  |
| --- |
| Hilalkansa |

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| --- |
| 1 [   ] |

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|  |

|  |
| --- |
| type II |

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|  |
| --- |
| Zastasky |

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| --- |
| 2 [   ] |

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|  |
| --- |
| type III |

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| --- |
| Limonium perezii |

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| --- |
| 3 [   ] |

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| --- |
| type IV |

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| --- |
| Zalimred |

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| 4 [   ] |

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| --- |
| type V |

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| --- |
| Limonium bellidifolium |

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| 5 [   ] |

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| --- |
| type VI |

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|  |
| --- |
| Phylliostachys suworowii |

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| 6 [   ] |

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| **5.4** |

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| **Calyx: main color** |

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| --- |
| white |

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| 1 [   ] |

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| --- |
| yellow |

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| 2 [   ] |

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|  |

|  |
| --- |
| pink |

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| --- |
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| --- |
| 3 [   ] |

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|  |

|  |
| --- |
| red |

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| --- |
| 4 [   ] |

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| --- |
| purple red |

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| 5 [   ] |

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| --- |
| violet |

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| 6 [   ] |

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| --- |
| blue |

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| 7 [   ] |

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|  | Characteristics | Example Varieties | Note |
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| --- |
| **5.5** |

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|  |
| --- |
| **Corolla: main color** |

 |  |  |
|  |

|  |
| --- |
| white |

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| --- |
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| 1 [   ] |

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| yellow |

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| 2 [   ] |

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| pink |

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| 3 [   ] |

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| violet |

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| 4 [   ] |

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| blue |

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| 5 [   ] |

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| 6. | Similar varieties and differences from these varieties |
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| *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.*   |

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| Denomination(s) of variety(ies) similar to your candidate variety |

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| Characteristic(s) in which your candidate variety differs from the similar variety(ies) |

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| Describe the expression of the characteristic(s) for the **similar** variety(ies) |

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| Describe the expression of the characteristic(s) for **your** candidate variety |

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| *Example* |

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| *Inflorescence: number of flowers* |

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| *3* |

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| *5* |

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|  | Comments:    |

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| #7. |

 | Additional information which may help in the examination of the variety |
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| 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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| -    Resistance to pests and diseases-    Growth type        -    annual                    [   ]        -    perennial                [   ]-    Cold treatement        -    not required           [   ]        -    required                 [   ] |

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

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| 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. |
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| 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: |

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|  | (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”. |  |
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| 10. | I hereby declare that, to the best of my knowledge, the information provided in this form is correct: |
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|  |  |   |  |
|  | Applicant’s name |  |
|  |  |   |  |  |  |
|  |  Signature |  | Date |  |  |
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