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| **TG/OXYPE\_CAE(proj.2)** |
| **ORIGINAL:** English |
| **DATE:** 2023-04-30 |

 |
| **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** |
|  | Geneva  |  |
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| **OXYPETALUM** |
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| UPOV Code(s): OXYPE\_CAE |

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| *Oxypetalum coeruleum* (D. Don) Decne. |

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

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| *prepared by experts from Japan* |
| *to be considered by the* |
|

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| --- |
| *Technical Working Party for Ornamental Plants and Forest Trees* |

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

|  |
| --- |
| *from 2023-06-12 to 2023-06-16* |

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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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| *Oxypetalum coeruleum* (D. Don) Decne., *Tweedia coerulea* D. Don |

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| Oxypetalum |

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| Oxypetalum |

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| Oxypetalum |

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| Oxipetalum |

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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. |
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| **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 *Oxypetalum coeruleum* (D. Don) Decne. |

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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 seeds or rooted cuttings. |

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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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| seed-propagated varieties: sufficient seeds to produce 30 plantsvegetatively propagated varieties: 15 rooted cuttings |

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|  | In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. |
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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 |
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| *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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| 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. |
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| 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. |
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| *3.4* | *Test Design* |
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| 3.4.1 |

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| In the case of seed-propagated varieties, each test should be designed to result in a total of at least 30 plants. |

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| 3.4.2 |

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| In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 15 plants. |

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

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| 4. | Assessment of Distinctness, Uniformity and Stability |
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| *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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| In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation made on all plants in the test, disregarding any off-type plants. |

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| In the case of vegetatively propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observation 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. |

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|  |   |
|  | 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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| 4.2.2 |

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| These Test Guidelines have been developed for the examination of self-pollinated seed-propagated and 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 self-pollinated seed-propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 30 plants, 1 off-type is allowed. |

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| 4.2.4 |

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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 15 plants, 1 off-type is allowed. |

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| *4.3* | *Stability* |
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| 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. |
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| 4.3.2 | Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied. |

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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. |
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| 5.3 | The following have been agreed as useful grouping characteristics: |
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| (a) |

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| Flower: type (characteristic 16) |

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| --- |
| (b) |

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| --- |
| Corolla lobe: number of colors on upper side (characteristic 23) |

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| --- |
| (c) |

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| Corolla lobe: main color of upper side (characteristic 24) with the following groups:Gr. 1: whiteGr. 2: pinkGr. 3: redGr. 4: purpleGr. 5: blue |

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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 |
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| *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* |
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|  |  | 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** |

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| **Nom du caractère en français** |

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| --- |
| **Name des Merkmals auf Deutsch** |

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| **Nombre del carácter en español** |

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| --- |
| states of expression |

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| --- |
| 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 |
|  |   |  |  |
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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)-(g) |

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

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| 7 |

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| --- |
| 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.** |  | **PQ** | **VG** | **(+)** | **(a)** |  |
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| **Plant: growth habit** |

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 |  |  |
|  |  | upright |  |  |  | Shane Blue, Tanioka 2go | 1 |
|  |  | arched |  |  |  | Sasaodemu | 2 |
|  |  | spreading |  |  |  |  | 3 |
| **2.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  |
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| **Plant: height** |

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|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  |  | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Shane Blue, Tanioka 2go | 5 |
|  |  | medium to tall |  |  |  | Sasabrand | 6 |
|  |  | tall |  |  |  |  | 7 |
|  |  | tall to very tall |  |  |  |  | 8 |
|  |  | very tall |  |  |  |  | 9 |
| **3.** |  | **PQ** | **VG** |  | **(a), (b)** |  |
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| **Stem: color** |

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|  |  | light green |  |  |  | Shane Blue, Tanioka 2go | 1 |
|  |  | medium green |  |  |  | Ikeda Pink 1go | 2 |
|  |  | green brown |  |  |  |  | 3 |
| **4.** |  | **QN** | **VG** |  | **(a), (b)** |  |
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| **Stem: density of pubescence** |

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 |  |  |
|  |  | absent or very sparse |  |  |  |  | 1 |
|  |  | sparse |  |  |  | INTA-GEISEI001 | 2 |
|  |  | medium |  |  |  | Shane Blue, Tanioka 2go | 3 |
|  |  | dense |  |  |  | Pegasus White | 4 |
|  |  | very dense |  |  |  |  | 5 |
| **5.** |  | **QN** | **MG/MS/VG** | **(+)** | **(a), (c)** |  |
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| **Leaf blade: length** |

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 |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  |  | 3 |
|  |  | short to medium |  |  |  | Mayor Pink | 4 |
|  |  | medium |  |  |  | Sasaodemu | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  |  | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |
| **6.** |  | **QN** | **MG/MS/VG** | **(+)** | **(a), (c)** |  |
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| **Leaf blade: width** |

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 |  |  |
|  |  | very narrow |  |  |  |  | 1 |
|  |  | narrow |  |  |  | Sasapawel | 2 |
|  |  | medium |  |  |  | Sasaodemu | 3 |
|  |  | broad |  |  |  |  | 4 |
|  |  | very broad |  |  |  |  | 5 |
| **7.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a), (c)** |  |
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| **Leaf blade: shape of base** |

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|  |  | truncate |  |  |  |  | 1 |
|  |  | cordate |  |  |  |  | 2 |
|  |  | auriculate |  |  |  |  | 3 |
| **8.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a), (c)** |  |
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| **Leaf blade: shape of apex** |

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 |  |  |
|  |  | acuminate |  |  |  |  | 1 |
|  |  | acute |  |  |  |  | 2 |
|  |  | obtuse |  |  |  |  | 3 |
|  |  | rounded |  |  |  |  | 4 |
| **9.** |  | **QN** | **VG** |  | **(a), (c)** |  |
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| **Leaf blade: intensity of green color on upper side** |

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 |  |  |
|  |  | very light |  |  |  |  | 1 |
|  |  | light |  |  |  | INTA-GEISEI001 | 2 |
|  |  | medium |  |  |  | Shane Blue | 3 |
|  |  | dark |  |  |  |  | 4 |
|  |  | very dark |  |  |  |  | 5 |
| **10.** |  | **QN** | **VG** |  | **(a), (c)** |  |
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| **Leaf blade: density of pubescence** |

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 |  |  |
|  |  | absent or very sparse |  |  |  |  | 1 |
|  |  | sparse |  |  |  | INTA-GEISEI001 | 2 |
|  |  | medium |  |  |  | Shane Blue, Tanioka 2go | 3 |
|  |  | dense |  |  |  |  | 4 |
|  |  | very dense |  |  |  |  | 5 |
| **11.** |  | **QN** | **MG/MS/VG** | **(+)** | **(a), (c)** |  |
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| **Petiole: length** |

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 |  |  |
|  |  | very short |  |  |  | Mayor Pink | 1 |
|  |  | short |  |  |  | Tanioka 2go | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | long |  |  |  |  | 4 |
|  |  | very long |  |  |  |  | 5 |
| **12.** |  | **QN** | **MG/MS/VG** | **(+)** | **(d)** |  |
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| **Inflorescence: length** |

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 |  |  |
|  |  | very short |  |  |  |  | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Sasapawel | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Tanioka 2go | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  |  | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  |  | 9 |
| **13.** |  | **PQ** | **VG** | **(+)** | **(d)** |  |
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| **Inflorescence: shape** |

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|  |  | conical |  |  |  | Blue Dia | 1 |
|  |  | cylindrical |  |  |  | Sasaodemu, Shane Blue | 2 |
| **14.** |  | **QN** | **MG/MS/VG** |  | **(d)** |  |
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| **Inflorescence: number of flowers** |

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|  |  | very few |  |  |  |  | 1 |
|  |  | few |  |  |  | INTA-GEISEI001 | 2 |
|  |  | medium |  |  |  | Shane Blue, Tanioka 2go | 3 |
|  |  | many |  |  |  |  | 4 |
|  |  | very many |  |  |  |  | 5 |
| **15.** |  | **QN** | **MG/MS/VG** | **(+)** | **(e)** |  |
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| **Pedicel: length** |

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|  |  | very short |  |  |  |  | 1 |
|  |  | short |  |  |  | Hoppy Pegasus | 2 |
|  |  | medium |  |  |  | Sasaodemu | 3 |
|  |  | long |  |  |  |  | 4 |
|  |  | very long |  |  |  |  | 5 |
| **16.** | **(\*)** | **PQ** | **VG** | **(+)** | **(e)** |  |
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| **Flower: type** |

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|  |  | single |  |  |  | Shane Blue, Tanioka 2go | 1 |
|  |  | semi-double |  |  |  | Blue Dia | 2 |
|  |  | double |  |  |  | Sasadango | 3 |
| **17.** |  | **QN** | **VG** | **(+)** | **(e), (f)** |  |
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| **Flower: attitude of corolla lobes** |

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|  |  | upwards |  |  |  |  | 1 |
|  |  | upwards to horizontal |  |  |  |  | 2 |
|  |  | horizontal |  |  |  | Tanioka 2go | 3 |
|  |  | horizontal to downwards |  |  |  |  | 4 |
|  |  | downwards |  |  |  | Sasadango | 5 |
| **18.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(e)** |  |
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| **Flower: diameter** |

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|  |  | very small |  |  |  |  | 1 |
|  |  | very small to small |  |  |  |  | 2 |
|  |  | small |  |  |  |  | 3 |
|  |  | small to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Sasabrand, Sasaiku | 5 |
|  |  | medium to large |  |  |  |  | 6 |
|  |  | large |  |  |  | King Sapphire | 7 |
|  |  | large to very large |  |  |  |  | 8 |
|  |  | very large |  |  |  |  | 9 |
| **19.** |  | **QN** | **MG/MS/VG** |  | **(e)** |  |
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| **Calyx: length of lobe** |

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|  |  | very short |  |  |  |  | 1 |
|  |  | short |  |  |  | Sasabrand | 2 |
|  |  | medium |  |  |  | Shane Blue, Tanioka 2go | 3 |
|  |  | long |  |  |  |  | 4 |
|  |  | very long |  |  |  |  | 5 |
| **20.** |  | **QN** | **MG/MS/VG** | **(+)** | **(e), (f)** |  |
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| **Corolla lobe: length** |

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|  |  | very short |  |  |  |  | 1 |
|  |  | short |  |  |  | Shane Blue | 2 |
|  |  | medium |  |  |  | Sasaiku | 3 |
|  |  | long |  |  |  | Sasadango | 4 |
|  |  | very long |  |  |  |  | 5 |
| **21.** |  | **QN** | **MG/MS/VG** | **(+)** | **(e), (f)** |  |
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| **Corolla lobe: width** |

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|  |  | very narrow |  |  |  |  | 1 |
|  |  | narrow |  |  |  |  | 2 |
|  |  | medium |  |  |  | INTA-GEISEI001, Sasaiku | 3 |
|  |  | broad |  |  |  | Ikeda Pink 1go | 4 |
|  |  | very broad |  |  |  |  | 5 |
| **22.** | **(\*)** | **PQ** | **VG** | **(+)** | **(e), (f)** |  |
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| **Corolla lobe: shape** |

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|  |  | lanceolate |  |  |  |  | 1 |
|  |  | narrow elliptic |  |  |  | Sasaiku | 2 |
|  |  | medium elliptic |  |  |  |  | 3 |
|  |  | broad elliptic |  |  |  | Shane Blue, Tanioka 2go | 4 |
|  |  | spatulate |  |  |  | Sasadango | 5 |
| **23.** | **(\*)** | **QL** | **VG** |  | **(e), (f)** |  |
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| **Corolla lobe: number of colors on upper side** |

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 |  |  |
|  |  | one |  |  |  | Shane Blue, Tanioka 2go | 1 |
|  |  | more than one |  |  |  | Blue Heart | 2 |
| **24.** | **(\*)** | **PQ** | **VG** |  | **(e), (f), (g)** |  |
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| **Corolla lobe: main color of upper side** |

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|  |  | RHS Colour Chart (indicate reference number) |  |  |  |  |  |
| **25.** | **(\*)** | **PQ** | **VG** |  | **(e), (f), (g)** |  |
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| **Only varieties with more than one color: Corolla lobe: secondary color of upper side** |

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|  |  | RHS Colour Chart (indicate reference number) |  |  |  |  |  |
| **26.** |  | **PQ** | **VG** | **(+)** | **(e), (f), (g)** |  |
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| **Only varieties with more than one color: Corolla lobe: distribution of secondary color of upper side** |

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|  |  | at margin |  |  |  | Blue Heart | 1 |
|  |  | central |  |  |  |  | 2 |
| **27.** |  | **PQ** | **VG** | **(+)** | **(e), (f)** |  |
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| **Corolla lobe: color of lower side** |

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|  |  | RHS Colour Chart (indicate reference number) |  |  |  |  |  |
| **28.** |  | **QL** | **VG** | **(+)** | **(e)** |  |
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| **Corona: conspicuousness** |

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|  |  | conspicuous |  |  |  | Shane Blue, Tanioka 2go | 1 |
|  |  | inconspicuous |  |  |  | Sasadango | 9 |
| **29.** | **(\*)** | **PQ** | **VG** | **(+)** | **(e)** |  |
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| **Only varieties with conspicuous corona: Corona: color of distal part** |

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|  |  | RHS Colour Chart (indicate reference number) |  |  |  |  |  |

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| 8. | Explanations on the Table of Characteristics |
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| *8.1* | *Explanations covering several characteristics* |
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| Unless otherwise indicated observations should be made 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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| Observations should be made when about 50 % of flowers have opened on the first inflorescence. |

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| (b) |

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| Observations should be made on the middle third of the stem. |

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| (c) |

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| Observations should be made on typical leaves taken from the middle third of the stem. |

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| (d) |

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| Observations should be made on the inflorescence of the longest branch. The optimum stage of development for the assessment of the characteristics is the time when the flowers on the fourth node from the bottom of the inflorescence are fully opened. |

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| (e) |

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| Observations should be made on typical flowers that are fully opened. |

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| (f) |

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| Observations should be made on the outermost corolla lobes in the case of varieties with the semi-double or double flowers. |

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| (g) |

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| The main color is the color with the largest surface area. The color with the second largest area is the secondary color. In cases where the areas of the colors are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color. |

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| *8.2* |

 | *Explanations for individual characteristics* |
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| Ad. 1: Plant: growth habit

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| wordml://76.png | wordml://77.png | wordml://78.png |
| 1 | 2 | 3 |
| upright | arched | spreading |

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| Ad. 2: Plant: height

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| wordml://79.png |
| a = Plant: height |

The plant height should be observed from the base to the highest point of the plant. |

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| Ad. 5: Leaf blade: length

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| wordml://80.png |  a = Leaf blade: length b = Leaf blade: width c = Petiole: length |

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| Ad. 6: Leaf blade: widthSee Ad. 5 |

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| Ad. 7: Leaf blade: shape of base

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| wordml://81.png | wordml://82.png | wordml://83.png |
| 1 | 2 | 3 |
| truncate | cordate | auriculate |

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| Ad. 8: Leaf blade: shape of apex

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| wordml://84.png | wordml://85.png | wordml://86.png | wordml://87.png |
| 1 | 2 | 3 | 4 |
| acuminate | acute | obtuse | rounded |

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| Ad. 11: Petiole: lengthSee Ad. 5 |

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| Ad. 12: Inflorescence: length

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| wordml://88.png | a = Inflorescence: length |

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| Ad. 13: Inflorescence: shape

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| --- | --- | --- | --- | --- | --- | --- |
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| --- | --- |
| wordml://89.png | wordml://90.png |
| 1 | 2 |
| conical | cylindrical |

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| Ad. 15: Pedicel: length

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| wordml://91.png |  a = Pedicel: length   |

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| Ad. 16: Flower: type

|  |  |
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| 1. | Single: flowers with 5 or less corolla lobes. |
| 2. | Semi-double: flowers with 6 to 10 corolla lobes. |
| 3. | Double: flowers with 11 or more corolla lobes. |

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| wordml://92.png | wordml://93.png | wordml://94.png |
| 1 | 2 | 3 |
| single | semi-double | double |

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| Ad. 17: Flower: attitude of corolla lobes

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| wordml://95.png | wordml://96.png | wordml://97.png |
| 1 | 3 | 5 |
| upwards | horizontal | downwards |

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| --- | --- | --- |
| Ad. 18: Flower: diameter

|  |  |
| --- | --- |
| wordml://98.png |  a = Flower: diameter b = Corolla lobe: length c = Corolla lobe: width |

The diameter should be observed at the broadest part of the flower. |

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| Ad. 20: Corolla lobe: lengthSee Ad. 18 |

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| Ad. 21: Corolla lobe: widthSee Ad. 18 |

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| Ad. 22: Corolla lobe: shapewordml://99.png |

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| Ad. 26: Only varieties with more than one color: Corolla lobe: distribution of secondary color of upper side

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| --- | --- |
| wordml://100.png | wordml://101.png |
| 1 | 2 |
| at margin | central |

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| Ad. 27: Corolla lobe: color of lower sideThe darkest color should be observed regardless of its percentage of the surface area in the case with more than one color on lower side. The green color on the midrib should be excluded. |

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| Ad. 28: Corona: conspicuousness

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| wordml://102.png | wordml://103.png |
| 1 | 9 |
| conspicuous | inconspicuous |

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| Ad. 29: Only varieties with conspicuous corona: Corona: color of distal partSee Ad. 28 |

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| --- | --- |
| 9. | Literature |

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|  |
| --- |
| Tsukamoto, Y., 1994: The Grand Dictionary of Horticulture, Volume 1. The Shogakukan Ltd. Chiyoda, Tokyo, JP, pp. 399-400 |

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| --- | --- |
| 10. | Technical Questionnaire |

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

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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 |

 | Botanical name |

|  |
| --- |
| *Oxypetalum coeruleum* (D. Don) Decne. |

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| --- |
|  |

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|  |   |  |   |  |
|  |

|  |
| --- |
| 1.2 |

 | Common name |

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| --- |
| Oxypetalum |

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|  |   |   |

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

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|

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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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| --- |
| #4. |

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

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|

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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 |

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|  |
| --- |
| 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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|

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

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| --- |
| Self-pollination |

 | [ ] |
|

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

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| --- |
| Other (please provide details) |

 | [ ] |
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| 4.2.2 |

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| --- |
| Vegetative propagation |

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|

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

 |

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| --- |
| Cuttings |

 | [ ] |
|

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

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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). |
|  |   |  |  |

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|  | Characteristics | Example Varieties | Note |
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| **5.1** |

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| --- |
| **(2)** |

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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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| 3 [   ] |

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| --- |
| short to medium |

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| 4 [   ] |

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|  |
| --- |
| medium |

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| --- |
| Shane Blue, Tanioka 2go |

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| --- |
| 5 [   ] |

 |
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|  |
| --- |
| medium to tall |

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| --- |
| Sasabrand |

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| 6 [   ] |

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| --- |
| tall |

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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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| **(7)** |

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| **Leaf blade: shape of base** |

 |  |  |
|  |

|  |
| --- |
| truncate |

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| 1 [   ] |

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|  |
| --- |
| cordate |

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| 2 [   ] |

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| --- |
| auriculate |

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| 3 [   ] |

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| **5.3** |

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| **(8)** |

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| **Leaf blade: shape of apex** |

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| acuminate |

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| 1 [   ] |

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| acute |

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| obtuse |

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| 3 [   ] |

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| rounded |

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| **5.4** |

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| **(16)** |

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| **Flower: type** |

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| --- |
| single |

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| --- |
| Shane Blue, Tanioka 2go |

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| --- |
| 1 [   ] |

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|  |

|  |
| --- |
| semi-double |

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| --- |
| Blue Dia |

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| --- |
| 2 [   ] |

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| --- |
| double |

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| --- |
| Sasadango |

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| 3 [   ] |

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

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| **(18)** |

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| **Flower: diameter** |

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| very small |

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| 1 [   ] |

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| very small to small |

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| 2 [   ] |

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| --- |
| small |

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| 3 [   ] |

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| --- |
| small to medium |

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| 4 [   ] |

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| --- |
| medium |

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| Sasabrand, Sasaiku |

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| 5 [   ] |

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| --- |
| medium to large |

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| 6 [   ] |

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| --- |
| large |

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| King Sapphire |

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| --- |
| 7 [   ] |

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| --- |
| large to very large |

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| 8 [   ] |

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|  |
| --- |
| very large |

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| 9 [   ] |

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| **5.6** |

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| --- |
| **(22)** |

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| --- |
| **Corolla lobe: shape** |

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|  |

|  |
| --- |
| lanceolate |

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|  |
| --- |
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| --- |
| 1 [   ] |

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|  |

|  |
| --- |
| narrow elliptic |

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|  |
| --- |
| Sasaiku |

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| --- |
| 2 [   ] |

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|  |

|  |
| --- |
| medium elliptic |

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| --- |
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| --- |
| 3 [   ] |

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|  |

|  |
| --- |
| broad elliptic |

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| --- |
| Shane Blue, Tanioka 2go |

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| --- |
| 4 [   ] |

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|  |

|  |
| --- |
| spatulate |

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|  |
| --- |
| Sasadango |

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| --- |
| 5 [   ] |

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| **5.7** |

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| **(23)** |

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| --- |
| **Corolla lobe: number of colors on upper side** |

 |  |  |
|  |

|  |
| --- |
| one |

 |

|  |
| --- |
| Shane Blue, Tanioka 2go |

 |

|  |
| --- |
| 1 [   ] |

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|  |

|  |
| --- |
| more than one |

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|  |
| --- |
| Blue Heart |

 |

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| --- |
| 2 [   ] |

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|  |  |  |  |
|  |  |  |  |
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| --- |
| **5.8(i)** |

|  |
| --- |
| **(24)** |

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| --- |
| **Corolla lobe: main color of upper side** |

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|  |

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| --- |
| RHS Colour Chart (indicate reference number) |

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| --- |
| **5.8(ii)** |

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| --- |
| **(24)** |

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|  |
| --- |
| **Corolla lobe: main color of upper side** |

 |  |  |
|  |

|  |
| --- |
| white |

 |

|  |
| --- |
|  |

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| --- |
| 1 [   ] |

 |
|  |

|  |
| --- |
| pink |

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| --- |
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| --- |
| 2 [   ] |

 |
|  |

|  |
| --- |
| red |

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| --- |
| 3 [   ] |

 |
|  |

|  |
| --- |
| purple |

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| --- |
| 4 [   ] |

 |
|  |

|  |
| --- |
| blue |

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| 5 [   ] |

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| --- |
| other (indicate) |

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| 6 [   ] |

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|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| **5.9(i)** |

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| **(25)** |

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| --- |
| **Only varieties with more than one color: Corolla lobe: secondary color of upper side** |

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| --- |
| RHS Colour Chart (indicate reference number) |

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| **5.9(ii)** |

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| **(25)** |

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| --- |
| **Only varieties with more than one color: Corolla lobe: secondary color of upper side** |

 |  |  |
|  |

|  |
| --- |
| white |

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| 1 [   ] |

 |
|  |

|  |
| --- |
| pink |

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| 2 [   ] |

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| --- |
| red |

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| 3 [   ] |

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| --- |
| purple |

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| 4 [   ] |

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| --- |
| blue |

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| 5 [   ] |

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|  |
| --- |
| other (indicate) |

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| 6 [   ] |

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| **5.10** |

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| **(29)** |

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| **Only varieties with conspicuous corona: Corona: color of distal part** |

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| RHS Colour Chart (indicate reference number) |

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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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| *Plant: height* |

 |

|  |
| --- |
| *short* |

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|  |
| --- |
| *medium* |

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|   |   |   |   |
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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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| 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: |
|  |  |   |  |  |  |
|  |  |   |  |
|  | Applicant’s name |  |
|  |  |   |  |  |  |
|  |  Signature |  | Date |  |  |
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