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| |  |  |  | | --- | --- | --- | |  |  | **E** | |  |  |  | |  |  | |  | | --- | | **TG/86/6** | | **ORIGINAL:** English | | **DATE:** 2022-10-25 | | | **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** | | | |  | Geneva |  | |  |  |  | |  |  |  | |  | |  | | --- | |  | | **ANTHURIUM** | |  | | |  | | --- | |  | | |  | | --- | | UPOV Code(s): ANTHU | | |  | | |  | | |  |  | | --- | --- | | |  | | --- | | *Anthurium* Schott | | |  | | |  | | |  | | --- | | \* | | |  |  |  | | |  | | --- | | **GUIDELINES** | |  | | **FOR THE CONDUCT OF TESTS** | |  | | **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** | | | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | Alternative names:\* | | | | | | | |  | | --- | |  | | | | | | | *Botanical name* | *English* | *French* | *German* | *Spanish* | | |  | | --- | | *Anthurium* Schott | | |  | | --- | | Anthurium | | |  | | --- | | Anthurium | | |  | | --- | | Flamingoblume | | |  | | --- | | Anthurium | | | | | |  |  |  | | 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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| |  |  | | --- | --- | | TABLE OF CONTENTS | PAGE | |  |  | | |  |  |  | | --- | --- | --- | | 1. | SUBJECT OF THESE TEST GUIDELINES.......................................................................................................... | [3](#Section1) | |  |  |  | | 2. | MATERIAL REQUIRED......................................................................................................................................... | [3](#Section2) | |  |  |  | | 3. | METHOD OF EXAMINATION................................................................................................................................ | [3](#Section3) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 3.1 | Number of Growing Cycles........................................................................................................................ | [3](#Section3-1) | | 3.2 | Testing Place............................................................................................................................................. | [3](#Section3-2) | | 3.3 | Conditions for Conducting the Examination............................................................................................... | [3](#Section3-3) | | 3.4 | Test Design................................................................................................................................................ | [3](#Section3-4) | | 3.5 | Additional Tests......................................................................................................................................... | [3](#Section3-5) | | | |  |  |  | | 4. | ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY................................................................. | [4](#Section4) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 4.1 | Distinctness............................................................................................................................................... | [4](#Section4-1) | | 4.2 | Uniformity.................................................................................................................................................. | [5](#Section4-2) | | 4.3 | Stability...................................................................................................................................................... | [5](#Section4-3) | | | |  |  |  | | 5. | GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL................................................ | [5](#Section5) | |  |  |  | | 6. | INTRODUCTION TO THE TABLE OF CHARACTERISTICS................................................................................ | [6](#Section6) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 6.1 | Categories of Characteristics..................................................................................................................... | [6](#Section6-1) | | 6.2 | States of Expression and Corresponding Notes........................................................................................ | [6](#Section6-2) | | 6.3 | Types of Expression.................................................................................................................................. | [6](#Section6-3) | | 6.4 | Example Varieties...................................................................................................................................... | [6](#Section6-4) | | 6.5 | Legend....................................................................................................................................................... | [7](#Section6-5) | | | |  |  |  | | 7. | TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES...................................................................................................................................................... | [8](#Section7) | |  |  |  | | 8. | EXPLANATIONS ON THE TABLE OF CHARACTERISTICS............................................................................... | [21](#Section8) | |  | |  |  |  | | --- | --- | --- | | 8.1 | Explanations covering several characteristics........................................................................................... | [21](#Section8-1) | | |  | | --- | | 8.2 | | Explanations for individual characteristics................................................................................................. | [21](#Section8-2) | | | |  |  |  | | 9. | LITERATURE......................................................................................................................................................... | [32](#Section9) | |  |  |  | | 10 | TECHNICAL QUESTIONNAIRE............................................................................................................................ | [33](#Section10) | |  |  |  | |  | |  | | --- | |  | |  | | | |

|  |  |
| --- | --- |
| 1. | Subject of these Test Guidelines |
|  |  |
|  | |  | | --- | | These Test Guidelines apply to all varieties of *Anthurium* Schott. | |

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| --- | --- |
|  |  |
|  |  |
| 2. | Material Required |
|  |  |
| 2.1 | |  | | --- | | The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with. | |
|  |  |
| 2.2 | |  | | --- | | The material is to be supplied in the form of young plants. | |
|  |  |
| 2.3 | |  | | --- | | The minimum quantity of plant material, to be supplied by the applicant, should be: | |
|  |  |
|  | |  | | --- | | 6 plants | |
|  |  |
| 2.4 | |  | | --- | | The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. | |
|  |  |
| 2.5 | |  | | --- | | The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given. | |

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|  |  |
| 3. | Method of Examination |
|  |  |
| *3.1* | *Number of Growing Cycles* |
|  |  |
| |  | | --- | | 3.1.1 | | The minimum duration of tests should normally be a single growing cycle. |
|  |  |
| |  | | --- | | 3.1.2 | | The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test. |
|  |  |
| *3.2* | *Testing Place* |
|  |  |
|  | Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 “Examining Distinctness”. |
|  |  |
| *3.3* | *Conditions for Conducting the Examination* |
|  |  |
| |  | | --- | | 3.3.1 | | The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. |
|  |  |
| |  | | --- | | 3.3.2 | | Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description. |
|  |  |

|  |  |
| --- | --- |
| *3.4* | *Test Design* |
|  |  |
| 3.4.1 | |  | | --- | | Each test should be designed to result in a total of at least 6 plants. | |
|  |  |
| |  | | --- | | 3.4.2 | | |  | | --- | | The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle. | |
|  |  |
| |  | | --- | |  |   *3.5* | *Additional Tests* |
|  |  |
|  | Additional tests, for examining relevant characteristics, may be established. |

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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. |
|  |  |
| 4.1.4 | |  | | --- | | Number of Plants or Parts of Plants to be Examined | |
|  |  |
|  | |  | | --- | | Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 5 plants or parts of plants taken from each of 5 plants and any other observations made on all plants in the test, disregarding any off-type plants. | |
|  |  |
| 4.1.5 | Method of Observation |
|  |  |
|  | The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 “Examining Distinctness”, Section 4 “Observation of characteristics”): |
|  |  |
|  | |  | | --- | | MG: single measurement of a group of plants or parts of plants  MS: measurement of a number of individual plants or parts of plants  VG: visual assessment by a single observation of a group of plants or parts of plants  VS: visual assessment by observation of individual plants or parts of plants | |
|  |  |

|  |  |
| --- | --- |
|  | Type of observation: visual (V) or measurement (M) |
|  |  |
|  | “Visual” observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc. |
|  |  |
|  | |  | | --- | | Type of record: for a group of plants (G) or for single, individual plants (S) | |
|  |  |
|  | |  | | --- | | For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, “G” provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness. | |
|  |  |
|  | In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2. |
|  |  |

|  |  |
| --- | --- |
| *4.2* | *Uniformity* |
|  |  |
| 4.2.1 | It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines: |
|  |  |
| |  | | --- | | 4.2.2 | | |  | | --- | | These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed. | |
|  |  |
| 4.2.3 | |  | | --- | | For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 6 plants, 1 off-type is allowed. | |
|  |  |
| *4.3* | *Stability* |
|  |  |
| 4.3.1 | In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable. |
|  |  |
| 4.3.2 | Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied. |

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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: |
|  | |  |  |  | | --- | --- | --- | |  |  |  | | |  | | --- | | (a) | |  | |  | | --- | | Plant: height (characteristic 1) | | | |  | | --- | | (b) | |  | |  | | --- | | Inflorescence: number of spathes (characteristic 16) | | | |  | | --- | | (c) | |  | |  | | --- | | Spathe: length (characteristic 17) | | | |  | | --- | | (d) | |  | |  | | --- | | Spathe: main color of upper side (characteristic 25) with the following groups:  Gr. 1: white  Gr. 2: green  Gr. 3: yellow  Gr. 4: orange  Gr. 5: pink  Gr. 6: red  Gr. 7: purple  Gr. 8: brown | | | |  | | --- | | (e) | |  | |  | | --- | | Spathe: secondary color of upper side (characteristic 26) with the following groups:  Gr. 1: none  Gr. 2: white  Gr. 3: green  Gr. 4: yellow  Gr. 5: orange  Gr. 6: pink  Gr. 7: red  Gr. 8: purple  Gr. 9: brown | | | |  | | --- | | (f) | |  | |  | | --- | | Spathe: distribution of secondary color of upper side (characteristic 27) | | | |  | | --- | | (g) | |  | |  | | --- | | Spadix: rolling (characteristic 36) | | | |  | | --- | | (h) | |  | |  | | --- | | Spadix: main color of basal part (characteristic 39) | | | |  | | --- | | (i) | |  | |  | | --- | | Spadix: main color of distal part (characteristic 41) | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | |  | | --- | |  | | | |
| 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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| --- | --- |
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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 Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | **1** | | |  | | --- | | **2** | | |  | | --- | | **3** | | |  | | --- | | **4** | | |  | | --- | | **5** | | |  | | --- | | **6** | | |  | | --- | | **7** | | | | | |  |  | |  | | --- | | **Name of characteristics in English** | | | |  | | --- | | **Nom du caractère en français** | | | |  | | --- | | **Name des Merkmals auf Deutsch** | | |  | | --- | | **Nombre del carácter en español** | |  |  | |  |  | |  | | --- | | states of expression | | | |  | | --- | | types d’expression | | | |  | | --- | | Ausprägungsstufen | | |  | | --- | | tipos de expresión | | |  | | --- | |  | |  | |  |  |  |  |  |  |  |  |  |  | | |
| |  |  |  |  | | --- | --- | --- | --- | | 1 | Characteristic number | | | |  |  |  |  | | 2 | (\*) | Asterisked characteristic | – see Chapter 6.1.2 | |  |  |  |  | | 3 | Type of expression | | | |  | QL | Qualitative characteristic | – see Chapter 6.3 | |  | QN | Quantitative characteristic | – see Chapter 6.3 | |  | PQ | Pseudo-qualitative characteristic | – see Chapter 6.3 | |  |  |  |  | | 4 | Method of observation (and type of plot, if applicable) | | | |  | MG, MS, VG, VS | | – see Chapter 4.1.5 | |  |  |  |  | | 5 | |  | | --- | | (+) | | |  |  | | --- | --- | | |  | | --- | | See Explanations on the Table of Characteristics in Chapter 8.2 | | | | |  |  |  |  | | 6 | |  | | --- | | (a)-(c) | | |  |  | | --- | --- | | |  | | --- | | See Explanations on the Table of Characteristics in Chapter 8.1 | | | | |  |  |  |  | | 7 | |  | | --- | | Not applicable | | | | | |

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

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Plant: height** | | | |  | | --- | | **Plante : hauteur** | | | |  | | --- | | **Pflanze: Höhe** | | |  | | --- | | **Planta: altura** | |  |  |
|  |  | very short | | très courte | | sehr niedrig | muy baja |  | 1 |
|  |  | very short to short | | très courte à courte | | sehr niedrig bis niedrig | muy baja a baja |  | 2 |
|  |  | short | | courte | | niedrig | baja | ANTHDOSDOH | 3 |
|  |  | short to medium | | courte à moyenne | | niedrig bis mittel | baja a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHCAPBUK | 5 |
|  |  | medium to tall | | moyenne à haute | | mittel bis hoch | media a alta |  | 6 |
|  |  | tall | | haute | | hoch | alta | ANTHARYSIA | 7 |
|  |  | tall to very tall | | haute à très haute | | hoch bis sehr hoch | alta a muy alta |  | 8 |
|  |  | very tall | | très haute | | sehr hoch | muy alta |  | 9 |
| **2.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: length** | | | |  | | --- | | **Limbe : longueur** | | | |  | | --- | | **Blattspreite: Länge** | | |  | | --- | | **Limbo: longitud** | |  |  |
|  |  | very short | | très courte | | sehr kurz | muy corta |  | 1 |
|  |  | very short to short | | très courte à courte | | sehr kurz bis kurz | muy corta a corta |  | 2 |
|  |  | short | | courte | | kurz | corta | ANTHEPEDI | 3 |
|  |  | short to medium | | courte à moyenne | | kurz bis mittel | corta a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHCAPBUK | 5 |
|  |  | medium to long | | moyenne à longue | | mittel bis lang | media a larga |  | 6 |
|  |  | long | | longue | | lang | larga | ANTHARYSIA | 7 |
|  |  | long to very long | | longue à très longue | | lang bis sehr lang | larga a muy larga |  | 8 |
|  |  | very long | | très longue | | sehr lang | muy larga |  | 9 |
| **3.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: width** | | | |  | | --- | | **Limbe : largeur** | | | |  | | --- | | **Blattspreite: Breite** | | |  | | --- | | **Limbo: anchura** | |  |  |
|  |  | very narrow | | très étroite | | sehr schmal | muy estrecha |  | 1 |
|  |  | very narrow to narrow | | très étroite à étroite | | sehr schmal bis schmal | muy estrecha a estrecha |  | 2 |
|  |  | narrow | | étroite | | schmal | estrecha | RYN2009006 | 3 |
|  |  | narrow to medium | | étroite à moyenne | | schmal bis mittel | estrecha a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHCAPBUK | 5 |
|  |  | medium to broad | | moyenne à large | | mittel bis breit | media a ancha |  | 6 |
|  |  | broad | | large | | breit | ancha | ANTHAQUIRE | 7 |
|  |  | broad to very broad | | large à très large | | breit bis sehr breit | ancha a muy ancha |  | 8 |
|  |  | very broad | | très large | | sehr breit | muy ancha |  | 9 |
| **4.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: ratio length/width** | | | |  | | --- | | **Limbe : rapport longueur/largeur** | | | |  | | --- | | **Blattspreite: Verhältnis Länge/Breite** | | |  | | --- | | **Limbo: relación longitud/anchura** | |  |  |
|  |  | very low | | très bas | | sehr klein | muy baja |  | 1 |
|  |  | very low to low | | très bas à bas | | sehr klein bis klein | muy baja a baja |  | 2 |
|  |  | low | | bas | | klein | baja |  | 3 |
|  |  | low to medium | | bas à moyen | | klein bis mittel | baja a media |  | 4 |
|  |  | medium | | moyen | | mittel | media | ANTHCAMZIP | 5 |
|  |  | medium to high | | moyen à élevé | | mittel bis groß | media a alta |  | 6 |
|  |  | high | | élevé | | groß | alta | ANTHDUBAQ | 7 |
|  |  | high to very high | | élevé à très élevé | | groß bis sehr groß | alta a muy alta |  | 8 |
|  |  | very high | | très élevé | | sehr groß | muy alta | ANTHDOSDOH | 9 |
| **5.** | **(\*)** | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: size of lobes** | | | |  | | --- | | **Limbe : taille des lobes** | | | |  | | --- | | **Blattspreite: Größe der Lappen** | | |  | | --- | | **Limbo: tamaño de los lóbulos** | |  |  |
|  |  | absent or very small | | absente ou très petite | | fehlend oder sehr klein | ausente o muy pequeño | ANTHDOSDOH | 1 |
|  |  | very small to small | | très petite à petite | | sehr klein bis klein | muy pequeño a pequeño |  | 2 |
|  |  | small | | petite | | klein | pequeño | ANTHZUPAP | 3 |
|  |  | small to medium | | petite à moyenne | | klein bis mittel | pequeño a medio |  | 4 |
|  |  | medium | | moyenne | | mittel | medio | ANTHCOTBIK | 5 |
|  |  | medium to large | | moyenne à grande | | mittel bis groß | medio a grande |  | 6 |
|  |  | large | | grande | | groß | grande | ANTHAQUIRE | 7 |
|  |  | large to very large | | grande à très grande | | groß bis sehr groß | grande a muy grande |  | 8 |
|  |  | very large | | très grande | | sehr groß | muy grande |  | 9 |
| **6.** |  | **PQ** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: relative position of lobes at base** | | | |  | | --- | | **Limbe: position relative des lobes à la base** | | | |  | | --- | | **Blattspreite: relative Stellung der Lappen an der Basis** | | |  | | --- | | **Limbo: posición relativa de los lóbulos en la base** | |  |  |
|  |  | incurved but not touching | | incurvée mais ne se touchant pas | | eingebogen, aber sich nicht berührend | incurvada sin contacto | RIJN200449 | 1 |
|  |  | free | | libre | | freistehend | libre | ANTHEPEDI | 2 |
|  |  | touching | | tangente | | einander berührend | en conacto | ANTHQUODO | 3 |
|  |  | overlapping | | chevauchante | | überlappend | solapada |  | 4 |
|  |  | adpressed | | appliquée | | anliegend | adpresa |  | 5 |
| **7.** |  | **PQ** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: angle of apex** | | | |  | | --- | | **Limbe: angle de l'apex** | | | |  | | --- | | **Blattspreite: Winkel des Apex** | | |  | | --- | | **Limbo: ángulo del ápice** | |  |  |
|  |  | acute | | aigu | | spitz | agudo |  | 1 |
|  |  | approximately right angle | | presque droit | | annähernd rechtwinklig | aproximadamente ángulo recto |  | 2 |
|  |  | obtuse | | obtus | | stumpf | obtuso |  | 3 |
| **8.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: differentiated tip** | | | |  | | --- | | **Limbe: extrémité différenciée** | | | |  | | --- | | **Blattspreite: aufgesetzte Spitze** | | |  | | --- | | **Limbo: punta diferenciada** | |  |  |
|  |  | absent | | absente | | fehlend | ausente |  | 1 |
|  |  | narrow acuminate | | acuminée étroite | | schmal zugespitzt | acuminada estrecha |  | 2 |
|  |  | medium acuminate | | acuminée moyenne | | mittel zugespitzt | acuminada media |  | 3 |
|  |  | broad acuminate | | acuminée large | | breit zugespitzt | acuminada ancha |  | 4 |
| **9.** |  | **QN** | **VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: intensity of green color of upper side** | | | |  | | --- | | **Limbe: intensité de la couleur verte la face supérieure** | | | |  | | --- | | **Blattspreite: Intensität der Grünfärbung der Oberseite** | | |  | | --- | | **Limbo: intensidad del color verde del haz** | |  |  |
|  |  | very light | | très claire | | sehr hell | muy clara |  | 1 |
|  |  | very light to light | | très claire à claire | | sehr hell bis hell | muy clara a clara |  | 2 |
|  |  | light | | claire | | hell | clara | ANTHDOSDOH | 3 |
|  |  | light to medium | | claire à moyenne | | hell bis mittel | clara a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHBNZL | 5 |
|  |  | medium to dark | | moyenne à foncée | | mittel bis dunkel | media a oscura |  | 6 |
|  |  | dark | | foncée | | dunkel | oscura | ANTHARYSIA | 7 |
|  |  | dark to very dark | | foncée à très foncée | | dunkel bis sehr dunkel | oscura a muy oscura |  | 8 |
|  |  | very dark | | très foncée | | sehr dunkel | muy oscura |  | 9 |
| **10.** |  | **QN** | **VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: blistering** | | | |  | | --- | | **Limbe : cloqûre** | | | |  | | --- | | **Blattspreite: Blasigkeit** | | |  | | --- | | **Limbo: abullonado** | |  |  |
|  |  | absent or very weak | | absente ou très faible | | fehlend oder sehr gering | ausente o muy débil | ANTHDOSDOH | 1 |
|  |  | very weak to weak | | très faible à faible | | sehr gering bis gering | muy débil a débil |  | 2 |
|  |  | weak | | faible | | gering | débil | ANTHCIMWI | 3 |
|  |  | weak to medium | | faible à moyenne | | gering bis mittel | débil a medio |  | 4 |
|  |  | medium | | moyenne | | mittel | medio | ANTHCAPBUK | 5 |
|  |  | medium to strong | | moyenne à forte | | mittel bis stark | medio a fuerte |  | 6 |
|  |  | strong | | forte | | stark | fuerte | ANTHAHOTO | 7 |
|  |  | strong to very strong | | forte à très forte | | stark bis sehr stark | fuerte a muy fuerte |  | 8 |
|  |  | very strong | | très forte | | sehr stark | muy fuerte |  | 9 |
| **11.** |  | **QN** | **MG/MS/VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **Petiole: length** | | | |  | | --- | | **Pétiole : longueur** | | | |  | | --- | | **Blattstiel: Länge** | | |  | | --- | | **Peciolo: longitud** | |  |  |
|  |  | very short | | très courte | | sehr kurz | muy corta |  | 1 |
|  |  | very short to short | | très courte à courte | | sehr kurz bis kurz | muy corta a corta |  | 2 |
|  |  | short | | courte | | kurz | corta | ANTHEBENEX | 3 |
|  |  | short to medium | | courte à moyenne | | kurz bis mittel | corta a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHBNZL | 5 |
|  |  | medium to long | | moyenne à longue | | mittel bis lang | de media a larga |  | 6 |
|  |  | long | | longue | | lang | larga | ANTHAQUIRE | 7 |
|  |  | long to very long | | longue à très longue | | lang bis sehr lang | de larga a muy larga |  | 8 |
|  |  | very long | | très longue | | sehr lang | muy larga |  | 9 |
| **12.** | **(\*)** | **QN** | **MG/MS/VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Peduncle: length** | | | |  | | --- | | **Pédoncule : longueur** | | | |  | | --- | | **Blütenstandsstiel: Länge** | | |  | | --- | | **Pedúnculo: longitud** | |  |  |
|  |  | very short | | très courte | | sehr kurz | muy corta |  | 1 |
|  |  | very short to short | | très courte à courte | | sehr kurz bis kurz | muy corta a corta |  | 2 |
|  |  | short | | courte | | kurz | corta | ANTHEPEDI | 3 |
|  |  | short to medium | | courte à moyenne | | kurz bis mittel | corta a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHCAPBUK | 5 |
|  |  | medium to long | | moyenne à longue | | mittel bis lang | media a larga |  | 6 |
|  |  | long | | longue | | lang | larga | ANTHAQUIRE | 7 |
|  |  | long to very long | | longue à très longue | | lang bis sehr lang | larga a muy larga |  | 8 |
|  |  | very long | | très longue | | sehr lang | muy larga |  | 9 |
| **13.** |  | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Peduncle: thickness** | | | |  | | --- | | **Pédoncule : épaisseur** | | | |  | | --- | | **Blütenstandsstiel: Dicke** | | |  | | --- | | **Pedúnculo: grosor** | |  |  |
|  |  | very thin | | très mince | | sehr dünn | muy delgado |  | 1 |
|  |  | thin | | mince | | dünn | delgado | ANTHEPEDI | 2 |
|  |  | medium | | moyenne | | mittel | medio | ANTHCAPBUK | 3 |
|  |  | thick | | épaisse | | dick | grueso | ANTHAQUIRE | 4 |
|  |  | very thick | | très épaisse | | sehr dick | muy grueso |  | 5 |
| **14.** |  | **QN** | **VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Peduncle: anthocyanin coloration** | | | |  | | --- | | **Pédoncule : pigmentation anthocyanique** | | | |  | | --- | | **Blütenstandsstiel: Anthocyanfärbung** | | |  | | --- | | **Pedúnculo: pigmentación antociánica** | |  |  |
|  |  | absent or very weak | | absente ou très faible | | fehlend oder sehr gering | ausente o muy débil | ANTHCAPBUK | 1 |
|  |  | very weak to weak | | très faible à faible | | sehr gering bis gering | muy débil a débil |  | 2 |
|  |  | weak | | faible | | gering | débil | ANTHBNZL | 3 |
|  |  | weak to medium | | faible à moyenne | | gering bis mittel | débil a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media |  | 5 |
|  |  | medium to strong | | moyenne à forte | | mittel bis stark | media a fuerte |  | 6 |
|  |  | strong | | forte | | stark | fuerte | ANTHEBENEX | 7 |
|  |  | strong to very strong | | forte à très forte | | stark bis sehr stark | fuerte a muy fuerte |  | 8 |
|  |  | very strong | | très forte | | sehr stark | muy fuerte |  | 9 |
| **15.** | **(\*)** | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Inflorescence: position in relation to foliage** | | | |  | | --- | | **Inflorescence : position par rapport au feuillage** | | | |  | | --- | | **Blütenstand: Stellung im Verhältnis zum Laub** | | |  | | --- | | **Inflorescencia: posición en relación con el follaje** | |  |  |
|  |  | below | | au-dessous | | unterhalb | debajo |  | 1 |
|  |  | same level | | au même niveau | | auf gleicher Höhe | al mismo nivel | ANTHBNEK | 2 |
|  |  | slightly above | | légèrement au-dessus | | etwas oberhalb | ligeramente por encima | ANTHEPEDI | 3 |
|  |  | strongly above | | fortement au-dessus | | deutlich oberhalb | fuertemente por encima | ANTHEBENEX | 4 |
| **16.** | **(\*)** | **QL** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Inflorescence: number of spathes** | | | |  | | --- | | **Inflorescence : nombre de spathes** | | | |  | | --- | | **Blütenstand: Anzahl Spathen** | | |  | | --- | | **Inflorescencia: número de espatas** | |  |  |
|  |  | one | | un | | eine | un | ANTHBNZL | 1 |
|  |  | two | | deux | | zwei | dos | KURIN HEART | 2 |
| **17.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: length** | | | |  | | --- | | **Spathe : longueur** | | | |  | | --- | | **Spatha: Länge** | | |  | | --- | | **Espata: longitud** | |  |  |
|  |  | very short | | très courte | | sehr kurz | muy corta |  | 1 |
|  |  | very short to short | | très courte à courte | | sehr kurz bis kurz | muy corta a corta |  | 2 |
|  |  | short | | courte | | kurz | corta | ANTHEBENEX | 3 |
|  |  | short to medium | | courte à moyenne | | kurz bis mittel | corta a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHEPEDI | 5 |
|  |  | medium to long | | moyenne à longue | | mittel bis lang | media a larga |  | 6 |
|  |  | long | | longue | | lang | larga | ANTHARYSIA | 7 |
|  |  | long to very long | | longue à très longue | | lang bis sehr lang | larga a muy larga |  | 8 |
|  |  | very long | | très longue | | sehr lang | muy larga |  | 9 |
| **18.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: width** | | | |  | | --- | | **Spathe : largeur** | | | |  | | --- | | **Spatha: Breite** | | |  | | --- | | **Espata: anchura** | |  |  |
|  |  | very narrow | | très étroite | | sehr schmal | muy estrecha |  | 1 |
|  |  | very narrow to narrow | | très étroite à étroite | | sehr schmal bis schmal | muy estrecha a estrecha |  | 2 |
|  |  | narrow | | étroite | | schmal | estrecha | ANTHDUBAQ | 3 |
|  |  | narrow to medium | | étroite à moyenne | | schmal bis mittel | estrecha a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHEPEDI | 5 |
|  |  | medium to broad | | moyenne à large | | mittel bis breit | media a ancha |  | 6 |
|  |  | broad | | large | | breit | ancha | ANTHAQUIRE | 7 |
|  |  | broad to very broad | | large à très large | | breit bis sehr breit | ancha a muy ancha |  | 8 |
|  |  | very broad | | très large | | sehr breit | muy ancha |  | 9 |
| **19.** |  | **QN** | **MS/VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: ratio length/width** | | | |  | | --- | | **Spathe : rapport longueur/largeur** | | | |  | | --- | | **Spatha: Verhältnis Länge/Breite** | | |  | | --- | | **Espata: relación longitud/anchura** | |  |  |
|  |  | very low | | très bas | | sehr klein | muy baja |  | 1 |
|  |  | very low to low | | très bas à bas | | sehr klein bis klein | muy baja a baja |  | 2 |
|  |  | low | | bas | | klein | baja | ANTHCAPBUK | 3 |
|  |  | low to medium | | bas à moyen | | klein bis mittel | baja a media |  | 4 |
|  |  | medium | | moyen | | mittel | media | ANTHAQUIRE | 5 |
|  |  | medium to high | | moyen à élevé | | mittel bis groß | media a alta |  | 6 |
|  |  | high | | élevé | | groß | alta |  | 7 |
|  |  | high to very high | | élevé à très élevé | | groß bis sehr groß | alta a muy alta |  | 8 |
|  |  | very high | | très élevé | | sehr groß | muy alta | ANTHDOSDOH | 9 |
| **20.** | **(\*)** | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: position of broadest part** | | | |  | | --- | | **Spathe : position de la partie la plus large** | | | |  | | --- | | **Spatha: Position des breitesten Teils** | | |  | | --- | | **Espata: posición de la parte más ancha** | |  |  |
|  |  | at base | | à la base | | an der Basis | en la base | ANTHBNZL | 1 |
|  |  | between base and middle | | entre la base et le milieu | | zwischen Basis und Mitte | entre la base y el centro | ANTHOLYL | 2 |
|  |  | at middle | | au milieu | | in der Mitte | en el centro | ANTHITOXO | 3 |
| **21.** | **(\*)** | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: size of lobes** | | | |  | | --- | | **Spathe : taille des lobes** | | | |  | | --- | | **Spatha: Größe der Lappen** | | |  | | --- | | **Espata: tamaño de los lóbulos** | |  |  |
|  |  | absent or very small | | absente ou très petite | | fehlend oder sehr klein | ausente o muy pequeño | ANTHDOSDOH | 1 |
|  |  | very small | | très petite | | sehr klein bis klein | muy pequeño |  | 2 |
|  |  | small | | petite | | klein | pequeño | ANTHZUPAP | 3 |
|  |  | small to medium | | petite à moyenne | | klein bis mittel | pequeño a medio |  | 4 |
|  |  | medium | | moyenne | | mittel | medio | ANTHOLYL | 5 |
|  |  | medium to large | | moyenne à grande | | mittel bis groß | medio a grande |  | 6 |
|  |  | large | | grande | | groß | grande | ANTHAHOTO | 7 |
|  |  | large to very large | | grande à très grande | | groß bis sehr groß | grande a muy grande |  | 8 |
|  |  | very large | | très grande | | sehr groß | muy grande |  | 9 |
| **22.** |  | **PQ** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: relative position of lobes at base** | | | |  | | --- | | **Spathe : position relative des lobes à la base** | | | |  | | --- | | **Spatha: relative Stellung der Lappen an der Basis** | | |  | | --- | | **Espata: posición relativa de los lóbulos en la base** | |  |  |
|  |  | incurved but not touching | | incurvée mais ne se touchant pas | | eingebogen, aber sich nicht berührend | incurvada sin contacto |  | 1 |
|  |  | free | | libre | | freistehend | libre |  | 2 |
|  |  | touching | | tangente | | einander berührend | en conacto |  | 3 |
|  |  | overlapping | | chevauchante | | überlappend | solapada |  | 4 |
|  |  | adpressed | | appliquée | | anliegend | adpresa |  | 5 |
| **23.** |  | **PQ** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: shape of apex** | | | |  | | --- | | **Spathe : forme de l'apex** | | | |  | | --- | | **Spatha: Form des Apex** | | |  | | --- | | **Espata: forma del ápice** | |  |  |
|  |  | acute | | aiguë | | spitz | aguda |  | 1 |
|  |  | obtuse | | obtuse | | stumpf | obtusa |  | 2 |
|  |  | rounded | | arrondie | | abgerundet | redondeada |  | 3 |
| **24.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: differentiated tip** | | | |  | | --- | | **Spathe : extrémité différenciée** | | | |  | | --- | | **Spatha: aufgesetzte Spitze** | | |  | | --- | | **Espata: punta diferenciada** | |  |  |
|  |  | absent | | absente | | fehlend | ausente |  | 1 |
|  |  | narrow acuminate | | acuminée étroite | | schmal zugespitzt | acuminada estrecha |  | 2 |
|  |  | medium acuminate | | acuminée moyenne | | mittel zugespitzt | acuminada media |  | 3 |
|  |  | broad acuminate | | acuminée large | | breit zugespitzt | acuminada ancha |  | 4 |
| **25.** | **(\*)** | **PQ** | **VG** |  | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spathe: main color of upper side** | | | |  | | --- | | **Spathe: couleur principale de la face supérieure** | | | |  | | --- | | **Spatha: Hauptfarbe der Oberseite** | | |  | | --- | | **Espata: color principal del haz** | |  |  |
|  |  | RHS Colour Chart (indicate reference number) | | Code RHS des couleurs (indiquer le numéro de référence) | | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) |  |  |
| **26.** | **(\*)** | **PQ** | **VG** |  | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spathe: secondary color of upper side** | | | |  | | --- | | **Spathe: couleur secondaire de la face supérieure** | | | |  | | --- | | **Spatha: Sekundärfarbe der Oberseite** | | |  | | --- | | **Espata: color secundario del haz** | |  |  |
|  |  | RHS Colour Chart (indicate reference number) | | Code RHS des couleurs (indiquer le numéro de référence) | | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) |  |  |
| **27.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spathe: distribution of secondary color of upper side** | | | |  | | --- | | **Spathe: distribution de la couleur secondaire de la face supérieure** | | | |  | | --- | | **Spatha: Verteilung der Sekundärfarbe der Oberseite** | | |  | | --- | | **Espata: distribución del color secundario del haz** | |  |  |
|  |  | none | | aucune | | keine | ninguna |  | 1 |
|  |  | at basal zone | | en zone basale | | in basaler Zone | en la zona basal |  | 2 |
|  |  | at central zone | | en zone centrale | | in mittlerer Zone | en la zona central |  | 3 |
|  |  | at apex | | à l'apex | | am Apex | en el ápice |  | 4 |
|  |  | at marginal zone | | en zone marginale | | im Randbereich | en la zona del borde |  | 5 |
|  |  | along veins | | le long des nervures | | entlang der Adern | a lo largo de los nervios |  | 6 |
|  |  | at apex and along veins | | à l'apex et le long des nervures | | am Apex und entlang der Adern | en el ápice y a lo largo de los nervios |  | 7 |
|  |  | throughout | | partout | | überall | en la totalidad |  | 8 |
| **28.** | **(\*)** | **PQ** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Spathe: pattern of secondary color of upper side** | | | |  | | --- | | **Spathe: répartition de la couleur secondaire de la face supérieure** | | | |  | | --- | | **Spatha: Muster der Sekundärfarbe der Oberseite** | | |  | | --- | | **Espata: forma de disposición del color secundario del haz** | |  |  |
|  |  | solid | | uniforme | | durchgefärbt | lisa | ANTHIUFEN | 1 |
|  |  | flushed | | diffuse | | verschwommen | pátina |  | 2 |
|  |  | spotted | | mouchetée | | gepunktet | en lunares |  | 3 |
|  |  | irregular | | irrégulière | | unregelmäßig | irregular |  | 4 |
| **29.** |  | **PQ** | **VG** |  | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spathe: main color of lower side** | | | |  | | --- | | **Spathe: couleur principale du côté inférieur** | | | |  | | --- | | **Spatha: Hauptfarbe der Unterseite** | | |  | | --- | | **Espata: color principal del envés** | |  |  |
|  |  | RHS Colour Chart (indicate reference number) | | Code de couleurs RHS (indiquer le numéro de référence) | | RHS-Farbkarte (Nummer angeben) | Carta de colores RHS (indíquese el número de referencia) |  |  |
| **30.** |  | **QN** | **VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: glossiness on upper side** | | | |  | | --- | | **Spathe: brillance de la face supérieure** | | | |  | | --- | | **Spatha: Glanz der Oberseite** | | |  | | --- | | **Espata: brillo en el haz** | |  |  |
|  |  | absent or very weak | | absente ou très faible | | fehlend oder sehr gering | ausente o muy débil | ARINOS | 1 |
|  |  | very weak to weak | | très faible à faible | | sehr gering bis gering | muy débil a débil |  | 2 |
|  |  | weak | | faible | | gering | débil | KURIN HEART | 3 |
|  |  | weak to medium | | faible à moyenne | | gering bis mittel | débil a medio |  | 4 |
|  |  | medium | | moyenne | | mittel | medio | ANTHARYSIA | 5 |
|  |  | medium to strong | | moyenne à forte | | mittel bis stark | medio a fuerte |  | 6 |
|  |  | strong | | forte | | stark | fuerte | ANTHBNZL | 7 |
|  |  | strong to very strong | | forte à très forte | | stark bis sehr stark | fuerte a muy fuerte |  | 8 |
|  |  | very strong | | très forte | | sehr stark | muy fuerte |  | 9 |
| **31.** | **(\*)** | **QN** | **VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: blistering** | | | |  | | --- | | **Spathe: cloqûre** | | | |  | | --- | | **Spatha: Blasigkeit** | | |  | | --- | | **Espata: abullonado** | |  |  |
|  |  | absent or very weak | | absente ou très faible | | fehlend oder sehr gering | ausente o muy débil | ANTHDOSDOH | 1 |
|  |  | very weak to weak | | très faible à faible | | sehr gering bis gering | muy débil a débil |  | 2 |
|  |  | weak | | faible | | gering | débil | ANTHCAPBUK | 3 |
|  |  | weak to medium | | faible à moyenne | | gering bis mittel | débil a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHEPEDI | 5 |
|  |  | medium to strong | | moyenne à forte | | mittel bis stark | media a fuerte |  | 6 |
|  |  | strong | | forte | | stark | fuerte | ANTHBNZL | 7 |
|  |  | strong to very strong | | forte à très forte | | stark bis sehr stark | fuerte a muy fuerte |  | 8 |
|  |  | very strong | | très forte | | sehr stark | muy fuerte |  | 9 |
| **32.** |  | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: shape in cross-section of middle zone** | | | |  | | --- | | **Spathe: forme de la zone médiane en section transversale** | | | |  | | --- | | **Spatha: Form der Mittelzone im Querschnitt** | | |  | | --- | | **Espata: forma en sección transversal de la zona media** | |  |  |
|  |  | concave | | concave | | konkav | cóncava |  | 1 |
|  |  | flat | | plate | | gerade | plana |  | 2 |
|  |  | convex | | convexe | | konvex | convexa |  | 3 |
| **33.** |  | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spathe: angle of distal part to peduncle** | | | |  | | --- | | **Spathe: angle de la partie distincte par rapport au pédoncule** | | | |  | | --- | | **Spatha: Winkel zwischen distalem Teil und Blütenstandsstiel** | | |  | | --- | | **Espata: ángulo de la parte distal con respecto al pedúnculo** | |  |  |
|  |  | acute | | aigu | | spitz | agudo |  | 1 |
|  |  | right angle | | angle droit | | rechter Winkel | ángulo recto |  | 2 |
|  |  | obtuse | | obtus | | stumpf | obtuso |  | 3 |
| **34.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spadix: length** | | | |  | | --- | | **Spadice: longueur** | | | |  | | --- | | **Kolben: Länge** | | |  | | --- | | **Espádice: longitud** | |  |  |
|  |  | very short | | très courte | | sehr kurz | muy corta |  | 1 |
|  |  | very short to short | | très courte à courte | | sehr kurz bis kurz | muy corta a corta |  | 2 |
|  |  | short | | courte | | kurz | corta | ANTHEPEDI | 3 |
|  |  | short to medium | | courte à moyenne | | kurz bis mittel | corta a media |  | 4 |
|  |  | medium | | moyenne | | mittel | media | ANTHBNZL | 5 |
|  |  | medium to long | | moyenne à longue | | mittel bis lang | media a larga |  | 6 |
|  |  | long | | longue | | lang | larga | ANTHAQUIRE | 7 |
|  |  | long to very long | | longue à très longue | | lang bis sehr lang | larga a muy larga |  | 8 |
|  |  | very long | | très longue | | sehr lang | muy larga |  | 9 |
| **35.** |  | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spadix: thickness** | | | |  | | --- | | **Spadice: épaisseur** | | | |  | | --- | | **Kolben: Dicke** | | |  | | --- | | **Espádice: grosor** | |  |  |
|  |  | very thin | | très mince | | sehr dünn | muy delgado |  | 1 |
|  |  | very thin to thin | | très mince à mince | | sehr dünn bis dünn | muy delgado a delgado |  | 2 |
|  |  | thin | | mince | | dünn | delgado | RYN2009006 | 3 |
|  |  | thin to medium | | mince à moyenne | | dünn bis mittel | delgado a medio |  | 4 |
|  |  | medium | | moyenne | | mittel | medio | ANTHBNZL | 5 |
|  |  | medium to thick | | moyenne à épaisse | | mittel bis dick | medio a grueso |  | 6 |
|  |  | thick | | épaisse | | dick | grueso | ANTHIOWIR | 7 |
|  |  | thick to very thick | | épaisse à très épaisse | | dick bis sehr dick | grueso a muy grueso |  | 8 |
|  |  | very thick | | très épaisse | | sehr dick | muy grueso |  | 9 |
| **36.** | **(\*)** | **QL** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spadix: rolling** | | | |  | | --- | | **Spadice: enroulement** | | | |  | | --- | | **Kolben: Einrollen** | | |  | | --- | | **Espádice: curvatura** | |  |  |
|  |  | absent | | absent | | fehlend | ausente | ANTHBNZL | 1 |
|  |  | present | | présent | | vorhanden | presente | ARINOS | 9 |
| **37.** | **(\*)** | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Only varieties with Spadix: rolling: absent: Spadix: curvature of longitudinal axis** | | | |  | | --- | | **Seulement variétés avec Spadice : enroulement : absent : Spadice : courbure de l'axe longitudinal** | | | |  | | --- | | **Nur Sorten mit Kolben: Einrollen: fehlend: Kolben: Krümmung der Längsachse** | | |  | | --- | | **Solo variedades con Espádice: curvatura: ausente: Espádice: curvatura del eje longitudinal** | |  |  |
|  |  | strongly incurved | | fortement incurvée | | stark aufgebogen | fuertemente incurvada |  | 1 |
|  |  | weakly incurved | | faiblement incurvée | | schwach aufgebogen | débilmente incurvada |  | 2 |
|  |  | straight | | droite | | gerade | recta |  | 3 |
|  |  | weakly recurved | | faiblement recourbée | | schwach zurückgebogen | débilmente recurvada |  | 4 |
|  |  | strongly recurved | | fortement recourbée | | stark zurückgebogen | fuertemente recurvada |  | 5 |
| **38.** |  | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Spadix: tapering towards the tip** | | | |  | | --- | | **Spadice : effilage vers l'extrémité** | | | |  | | --- | | **Kolben: Verjüngung zur Spitze hin** | | |  | | --- | | **Espádice: estrechado hacia la punta** | |  |  |
|  |  | absent or very weak | | absent ou très faible | | fehlend oder sehr gering | ausente o muy débil |  | 1 |
|  |  | weak | | faible | | gering | débil |  | 2 |
|  |  | medium | | moyen | | mittel | medio |  | 3 |
|  |  | strong | | fort | | stark | fuerte |  | 4 |
|  |  | very strong | | très fort | | sehr stark | muy fuerte |  | 5 |
| **39.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spadix: main color of basal part** | | | |  | | --- | | **Spadice: couleur principale de la partie basale** | | | |  | | --- | | **Kolben: Hauptfarbe des basalen Teils** | | |  | | --- | | **Espádice: color principal de la parte basal** | |  |  |
|  |  | whitish | | blanchâtre | | weißlich | blanquecino |  | 1 |
|  |  | green | | vert | | grün | verde |  | 2 |
|  |  | yellow | | jaune | | gelb | amarillo |  | 3 |
|  |  | orange | | orange | | orange | naranja |  | 4 |
|  |  | pink | | rose | | rosa | rosa |  | 5 |
|  |  | red | | rouge | | rot | rojo |  | 6 |
|  |  | red purple | | rouge-pourpre | | rotpurpurn | púrpura rojizo |  | 7 |
|  |  | purple | | pourpre | | purpurn | púrpura |  | 8 |
|  |  | brown | | brun | | braun | marrón |  | 9 |
| **40.** |  | **PQ** | **VG** | **(+)** | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spadix: main color of middle part** | | | |  | | --- | | **Spadice: couleur principale de la partie médiane** | | | |  | | --- | | **Kolben: Hauptfarbe des Mittelteils** | | |  | | --- | | **Espádice: color principal de la parte central** | |  |  |
|  |  | whitish | | blanchâtre | | weißlich | blanquecino |  | 1 |
|  |  | green | | vert | | grün | verde |  | 2 |
|  |  | yellow | | jaune | | gelb | amarillo |  | 3 |
|  |  | orange | | orange | | orange | naranja |  | 4 |
|  |  | pink | | rose | | rosa | rosa |  | 5 |
|  |  | red | | rouge | | rot | rojo |  | 6 |
|  |  | red purple | | rouge-pourpre | | rotpurpurn | púrpura rojizo |  | 7 |
|  |  | purple | | pourpre | | purpurn | púrpura |  | 8 |
|  |  | brown | | brun | | braun | marrón |  | 9 |
| **41.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b), (c)** |  | | | |
|  |  | |  | | --- | | **Spadix: main color of distal part** | | | |  | | --- | | **Spadice: couleur principale de la partie distale** | | | |  | | --- | | **Kolben: Hauptfarbe des distalen Teils** | | |  | | --- | | **Espádice: color principal de la parte distal** | |  |  |
|  |  | whitish | | blanchâtre | | weißlich | blanquecino |  | 1 |
|  |  | green | | vert | | grün | verde |  | 2 |
|  |  | yellow | | jaune | | gelb | amarillo |  | 3 |
|  |  | orange | | orange | | orange | naranja |  | 4 |
|  |  | pink | | rose | | rosa | rosa |  | 5 |
|  |  | red | | rouge | | rot | rojo |  | 6 |
|  |  | red purple | | rouge-pourpre | | rotpurpurn | púrpura rojizo |  | 7 |
|  |  | purple | | pourpre | | purpurn | púrpura |  | 8 |
|  |  | brown | | brun | | braun | marrón |  | 9 |
| **42.** |  | **PQ** | **VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Spadix: main color of basal part after dehiscence of anthers** | | | |  | | --- | | **Spadice: couleur principale de la partie basale après déhiscence des anthères** | | | |  | | --- | | **Kolben: Hauptfarbe des basalen Teils nach dem Pollenstäuben** | | |  | | --- | | **Espádice: color principal de la parte basal tras la dehiscencia de las anteras** | |  |  |
|  |  | whitish | | blanchâtre | | weißlich | blanquecino |  | 1 |
|  |  | green | | vert | | grün | verde |  | 2 |
|  |  | yellow | | jaune | | gelb | amarillo |  | 3 |
|  |  | orange | | orange | | orange | naranja |  | 4 |
|  |  | pink | | rose | | rosa | rosa |  | 5 |
|  |  | red | | rouge | | rot | rojo |  | 6 |
|  |  | red purple | | rouge-pourpre | | rotpurpurn | púrpura rojizo |  | 7 |
|  |  | purple | | pourpre | | purpurn | púrpura |  | 8 |
|  |  | brown | | brun | | braun | marrón |  | 9 |
| **43.** |  | **PQ** | **VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Spadix: main color of distal part after dehiscence of anthers** | | | |  | | --- | | **Spadice: couleur principale de la partie distale après déhiscence des anthères** | | | |  | | --- | | **Kolben: Hauptfarbe des distalen Teils nach dem Pollenstäuben** | | |  | | --- | | **Spádice: color principal de la parte distal tras la dehiscencia de las anteras** | |  |  |
|  |  | whitish | | blanchâtre | | weißlich | blanquecino |  | 1 |
|  |  | green | | vert | | grün | verde |  | 2 |
|  |  | yellow | | jaune | | gelb | amarillo |  | 3 |
|  |  | orange | | orange | | orange | naranja |  | 4 |
|  |  | pink | | rose | | rosa | rosa |  | 5 |
|  |  | red | | rouge | | rot | rojo |  | 6 |
|  |  | red purple | | rouge-pourpre | | rotpurpurn | púrpura rojizo |  | 7 |
|  |  | purple | | pourpre | | purpurn | púrpura |  | 8 |
|  |  | brown | | brun | | braun | marrón |  | 9 |

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| |  |  |  |  | | --- | --- | --- | --- | | 8. | Explanations on the Table of Characteristics | | | |  | | | | | *8.1* | *Explanations covering several characteristics* | | | |  | | | | |  | |  | | --- | | Unless otherwise indicated, observations should be made on fully grown plants with fully developed flowers. | | | | |  |  |  |  | |  | Characteristics containing the following key in the Table of Characteristics should be examined as indicated below: | | | |  | | | | | |  | | --- | | (a) | | |  | | --- | | Observations should be made on the largest fully developed leaf. | | | | |  |  |  |  | | |  | | --- | | (b) | | |  | | --- | | Observations should be made when the basal 1/3 to 2/3 of the flowers spadix are developed and feel rough.  wordml://76.png | | | | |  |  |  |  | | |  | | --- | | (c) | | |  | | --- | | The main color is the color with the largest surface area, the secondary color is the color with the second largest surface area, and the tertiary color is the color with the third largest surface area. In cases where the area of the main and secondary color are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color. In cases where the area of the secondary and tertiary color are too similar to reliably decide which color has the second largest area, the darker color is considered to be the secondary color. | | | | |  |  |  |  | |

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| |  |  |  | | --- | --- | --- | | |  | | --- | | *8.2* | | *Explanations for individual characteristics* | |  | | | |  | | --- | | Ad. 1: Plant: height  wordml://77.png | | | | |  | | --- | | Ad. 2: Leaf blade: length  wordml://78.png  a = Leaf blade: length  b = Leaf blade: width | | | | |  | | --- | | Ad. 3: Leaf blade: width  See Ad. 2 | | | |

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| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 37: Only varieties with Spadix: rolling: absent: Spadix: curvature of longitudinal axis     |  |  |  |  |  | | --- | --- | --- | --- | --- | | wordml://139.png | wordml://140.png | wordml://141.png | wordml://142.png | wordml://143.png | | 1 | 2 | 3 | 4 | 5 | | strongly incurved | weakly incurved | straight | weakly recurved | strongly recurved | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 38: Spadix: tapering towards the tip     |  |  |  |  |  | | --- | --- | --- | --- | --- | | wordml://144.png | wordml://145.png | wordml://146.png | wordml://147.png | wordml://148.png | | 1 | 2 | 3 | 4 | 5 | | absent or very weak | weak | medium | strong | very strong | | | | |  |  |  | | --- | --- | --- | | Ad. 39: Spadix: main color of basal part   |  |  | | --- | --- | | wordml://149.png | a = main color of basal part (Char. 39)  b = main color of middle part (Char. 40)  c = main color of distal part (Char. 41) | | | |

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| |  |  | | --- | --- | | |  | | --- | | Ad. 40: Spadix: main color of middle part  See Ad. 39 | | | |  | | --- | | Ad. 41: Spadix: main color of distal part  See Ad. 39 | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Ad. 42: Spadix: main color of basal part after dehiscence of anthers   |  |  | | --- | --- | | wordml://150.png | Observations should be made when one to two thirds of anthers in the basal part of the spadix have dehisced.  Some modern varieties don’t show these signs at all. In those cases, observation should be made when the flowers at the top of spadix are developed and feel rough.  a = Spadix: main color of basal part after dehiscence of anthers (Char. 42)  b = Spadix: main color of distal part after dehiscence of anthers (Char. 43) | |  |  | |  |  | | | | |  | | --- | | Ad. 43: Spadix: main color of distal part after dehiscence of anthers  See Ad. 42 | | |
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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | 9. | Literature | | |  |  |  | | --- | | Tsukamoto, Y., 1994: The Grand Dictionary of Horticulture (Volume 1), Shogakukan Inc., Chiyoda-ku, Tokyo, JP, pp. 187-192  Brickel, C., 2003: A to Z Encyclopedia of Garden Plants,  Seibundo Shinkosha Publishing Co. Ltd., Bunkyo-ku, Tokyo, JP, pp. 123, translated by Yokoi M et al. | | |

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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 QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 1. | Subject of the Technical Questionnaire | | | | |  |  |  |  |  | |  | |  | | --- | | 1.1 | | Botanical name | |  | | --- | | *Anthurium* Schott | | |  | | --- | |  | | |  |  |  |  |  | |  | |  | | --- | | 1.2 | | Common name | |  | | --- | | Anthurium | |  | |  |  |  |  |  | |  | |  | | --- | | 1.3 | | Species (please indicate): |  |  | |  |  |  | |  | | --- | |  | |  | |  |  |  |  |  | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 2. | Applicant | | | | |  |  |  |  |  | |  | Name | |  |  | |  |  |  |  |  | |  | Address | |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |  | |  | Telephone No. | |  |  | |  |  |  |  |  | |  | Fax No. | |  |  | |  |  |  |  |  | |  | E-mail address | |  |  | |  |  |  |  |  | |  | Breeder (if different from | |  |  | |  | applicant) | |  |  | |  |  |  |  |  | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 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: | |  | | | | | | |  | | --- | | #4. | | Information on the breeding scheme and propagation of the variety | | | | |  |  |  | | | |  | 4.1 | Breeding scheme | | | |  | Variety resulting from: | | | | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | 4.1.1 | | |  | | --- | | Crossing | |  | | |  | | --- | | (a) | | |  | | --- | | controlled cross | | [ ] | |  | |  | | --- | | (please state parent variety)  (…………………..……………..…)                          x        (……………..…………………..…)  female parent                                                                     male parent | | | | |  | | --- | | (b) | | |  | | --- | | partially known cross | | [ ] | |  | |  | | --- | | (please state known parent variety(ies))  (…………………..……………..…)                          x        (……………..…………………..…)  female parent                                                                     male parent | | | | |  | | --- | | (c) | | |  | | --- | | unknown cross | | [ ] | |  |  | | | |  | | --- | | 4.1.2 | | |  | | --- | | Mutation  (please state parent variety) | | [ ] | |  |  | | |  |  | | | |  | | --- | | 4.1.3 | | |  | | --- | | Discovery and development  (please state where and when discovered and how developed) | | [ ] | |  |  | | |  |  | | | |  | | --- | | 4.1.4 | | Other (Please provide details) | [ ] | |  |  | | |  |  | | | | | | |

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| |  |  |  | | --- | --- | --- | |  |  |  | |  | 4.2 | Method of propagating the variety | |  | |  |  |  | | --- | --- | --- | | |  | | --- | | 4.2.1 | | |  | | --- | | Vegetative propagation | |  | | |  | | --- | | (a) | | |  | | --- | | *In vitro* propagation | | [ ] | | |  | | --- | | (b) | | |  | | --- | | Other (state method) | | [ ] | |  |  |  | |  |  |  | |  |  |  | | |  | | --- | | 4.2.2 | | Other (Please provide details) | [ ] | |  |  |  | |  |  |  | |  |  |  | | | |  | |  |  | | --- | --- | | |  | | --- | |  | | | | |

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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)** | | |  | | --- | | **Plant: height** | |  |  |
|  | |  | | --- | | very short | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very short to short | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | short | | |  | | --- | | ANTHDOSDOH | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | short to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | ANTHCAPBUK | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to tall | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | tall | | |  | | --- | | ANTHARYSIA | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | tall to very tall | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very tall | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.2** |  |  | | --- | | **(2)** | | |  | | --- | | **Leaf blade: length** | |  |  |
|  | |  | | --- | | very short | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very short to short | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | short | | |  | | --- | | ANTHEPEDI | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | short to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | ANTHCAPBUK | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to long | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | long | | |  | | --- | | ANTHARYSIA | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | long to very long | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very long | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
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|  |  |  |  |
| |  | | --- | | **5.3** |  |  | | --- | | **(16)** | | |  | | --- | | **Inflorescence: number of spathes** | |  |  |
|  | |  | | --- | | one | | |  | | --- | | ANTHBNZL | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | two | | |  | | --- | | KURIN HEART | | |  | | --- | | 2 [   ] | |
|  |  |  |  |

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

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| |  | | --- | | **5.4** |  |  | | --- | | **(17)** | | |  | | --- | | **Spathe: length** | |  |  |
|  | |  | | --- | | very short | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very short to short | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | short | | |  | | --- | | ANTHEBENEX | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | short to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | ANTHEPEDI | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to long | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | long | | |  | | --- | | ANTHARYSIA | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | long to very long | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very long | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.5** |  |  | | --- | | **(18)** | | |  | | --- | | **Spathe: width** | |  |  |
|  | |  | | --- | | very narrow | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very narrow to narrow | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | narrow | | |  | | --- | | ANTHDUBAQ | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | narrow to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | ANTHEPEDI | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to broad | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | broad | | |  | | --- | | ANTHAQUIRE | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | broad to very broad | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very broad | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.6(i)** |  |  | | --- | | **(25)** | | |  | | --- | | **Spathe: main color of upper side** | |  |  |
|  | |  | | --- | | RHS Colour Chart (indicate reference number) | | |  | | --- | |  | |  |
|  |  |  |  |
| |  | | --- | | **5.6(ii)** |  |  | | --- | | **(25)** | | |  | | --- | | **Spathe: main color of upper side** | |  |  |
|  | |  | | --- | | white | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | orange | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | pink | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | red | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | purple | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | brown | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | other (please indicate) | | |  | | --- | |  | | |  | | --- | | [   ] | |
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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
|  |  |  |  |
| |  | | --- | | **5.7(i)** |  |  | | --- | | **(26)** | | |  | | --- | | **Spathe: secondary color of upper side** | |  |  |
|  | |  | | --- | | RHS Colour Chart (indicate reference number) | | |  | | --- | |  | |  |
|  |  |  |  |
| |  | | --- | | **5.7(ii)** |  |  | | --- | | **(26)** | | |  | | --- | | **Spathe: secondary color of upper side** | |  |  |
|  | none |  | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | white | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | green | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | orange | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | pink | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | red | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | purple | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | brown | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  | |  | | --- | | other (please indicate) | | |  | | --- | |  | | |  | | --- | | [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.8** |  |  | | --- | | **(27)** | | |  | | --- | | **Spathe: distribution of secondary color of upper side** | |  |  |
|  | |  | | --- | | none | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | at basal zone | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | at central zone | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | at apex | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | at marginal zone | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | along veins | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | at apex and along veins | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | throughout | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.9** |  |  | | --- | | **(36)** | | |  | | --- | | **Spadix: rolling** | |  |  |
|  | |  | | --- | | absent | | |  | | --- | | ANTHBNZL | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | present | | |  | | --- | | ARINOS | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.10** |  |  | | --- | | **(39)** | | |  | | --- | | **Spadix: main color of basal part** | |  |  |
|  | |  | | --- | | whitish | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | orange | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | pink | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | red | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | red purple | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | purple | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | brown | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
|  |  |  |  |
| |  | | --- | | **5.11** |  |  | | --- | | **(41)** | | |  | | --- | | **Spadix: main color of distal part** | |  |  |
|  | |  | | --- | | whitish | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | orange | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | pink | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | red | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | red purple | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | purple | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | brown | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
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| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
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| |  |  | | --- | --- | | 6. | Similar varieties and differences from these varieties | | |  | | --- | | *Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.* | | | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | Denomination(s) of variety(ies) similar to your candidate variety | | |  | | --- | | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | | |  | | --- | | Describe the expression of the characteristic(s) for the **similar** variety(ies) | | |  | | --- | | Describe the expression of the characteristic(s) for **your** candidate variety | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | *Example* | |  | | --- | | *Plant: height* | | |  | | --- | | *high* | | |  | | --- | | *medium* | | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |  | Comments: | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | #7. | | Additional information which may help in the examination of the variety | | | | |  |  |  | | | | 7.1 | In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? | | | | |  | Yes | [ ] | No | [ ] | |  | (If yes, please provide details) | | | | | 7.2 | Are there any special conditions for growing the variety or conducting the examination? | | | | |  | Yes | [ ] | No | [ ] | |  | (If yes, please provide details) | | | | | 7.3 | Other information | | | | |  |  |  |  |  | | A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.   The key points to consider when taking a photograph of the candidate variety are:  • Indication of the date and geographic location • Correct labeling (breeder’s reference) • Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)”  Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/).  [The link provided may be deleted by members of the Union when developing authorities’ own test guidelines.] | | | | | | |  | | --- | | -    Resistance to pests and diseases  -    (i) Use of variety                  - cut flower [ ]                  - pot plant [ ]  -    (ii) Other conditions | | | | | | |  |  |  |  |  | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 8. | Authorization for release | | | | | |  | (a) | Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health? | | | | |  |  | Yes | [ ] | No | [ ] | |  | (b) | Has such authorization been obtained? | | | | |  |  | Yes | [ ] | No | [ ] | |  | If the answer to (b) is yes, please attach a copy of the authorization. | | | | | |  |  |  |  |  |  | |
| |  |  | | --- | --- | | |  | | --- | | 9. Information on plant material to be examined or submitted for examination | | |  | | 9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. | |  | | |  | | --- | | 9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to: | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | (a) | Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [ ] | No [ ] |  | |  | (b) | Chemical treatment (e.g. growth retardant, pesticide) | Yes [ ] | No [ ] |  | |  | (c) | Tissue culture | Yes [ ] | No [ ] |  | |  | (d) | Other factors | Yes [ ] | No [ ] |  | |  | Please provide details for where you have indicated “yes”. | | | |  | |  |  | | | |  | | |  | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 10. | I hereby declare that, to the best of my knowledge, the information provided in this form is correct: | | | | | |  |  |  |  |  |  | |  |  |  | | |  | |  | Applicant’s name |  | |  |  |  |  |  |  | |  | Signature |  | Date |  |  | |  |  |  | |  |  | |  |  |  |  |  |  | |
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