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|  | ZANTEDESCHIA  UPOV Code(s): ZANTE  *Zantedeschia* Spreng. | \* |

GUIDELINESFOR THE CONDUCT OF TESTS  
FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Kingdom of the Netherlands

to be considered by the

Technical Working Party for Ornamental Plants and Forest Trees at its fifty-seventh session,

to be held in Roelofarendsveen, Kingdom of the Netherlands,

from 2025-03-31 to 2025-04-03

Disclaimer: this document does not represent UPOV policies or guidance

Alternative Names:\*

| *Botanical name* | *English* | *French* | *German* | *Spanish* |
| --- | --- | --- | --- | --- |
| *Zantedeschia* Spreng. | Calla Lily, Zantedeschia | Arum, Zantédesquie | Calla, Kalla | Cala |

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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# Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Zantedeschia* Spreng..

# 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 rhizomes/tubers of flowering size.

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

vegetatively propagated varieties: 20 rhizomes/tubers  
seed-propagated varieties: 40 rhizomes/tubers

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.

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.

# 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 20 plants.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

## 3.5  Additional Tests

Additional tests, for examining relevant characteristics, may be established.

# 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

In the case of vegetatively 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.

In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 40 plants or parts taken from each of 40 plants and any other observation 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 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction.

4.2.4 For the assessment of uniformity of vegetatively propagated varieties a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 1 off-type is allowed.

## 4.3  Stability

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

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

# 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) Leaf blade: size of lobes (characteristic 8)

(b) Leaf blade: number of spots (characteristic 10)

(c) Spathe: main color of inner side (characteristic 30) with the following groups:

Gr. 1: white

Gr. 2: yellowish white

Gr. 3: yellow

Gr. 4: yellow brown

Gr. 5: yellow orange

Gr. 6: orange

Gr. 7: orange red

Gr. 8: red

Gr. 9: purple red

Gr. 10: pink

Gr. 11: pink red

Gr. 12: purple

(d) Spathe: size of throat spot (characteristic 34)

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”.

# 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.

## 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)-(x) See Explanations on the Table of Characteristics in Chapter 8.1

7 Growth stage key (if applicable) See Explanations on the Table of Characteristics in Chapter 8.3

# Table of Characteristics/Tableau des caracteres/Merkmalstabelle/Tabla de caracteres

|  | | English | | français | | deutsch | español | Example Varieties  Exemples  Beispielssorten  Variedades ejemplo | Note/  Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  |  |  |  |
|  | | **Plant: height** | |  | |  |  |  |  |
| very short | |  | |  |  | KONZWHITEA | 1 |
| very short to short | |  | |  |  | Izzy Mae | 2 |
| short | |  | |  |  | Captain Serano | 3 |
| short to medium | |  | |  |  | Blushing Lady | 4 |
| medium | |  | |  |  | Captain Ranomi | 5 |
| medium to tall | |  | |  |  |  | 6 |
| tall | |  | |  |  | Snowstar | 7 |
| tall to very tall | |  | |  |  | Captain Chelsea | 8 |
| very tall | |  | |  |  | Flamingo | 9 |
| **2.** |  | **QN** | **MG/MS/VG** |  | **(a)** |  |  |  |  |
|  | | **Plant: total number of shoots** | |  | |  |  |  |  |
| very few | |  | |  |  | Outback | 1 |
| few | |  | |  |  | Snowstar | 2 |
| medium | |  | |  |  | Blushing Lady | 3 |
| many | |  | |  |  | Captain Ranomi | 4 |
| very many | |  | |  |  | Captain Serano | 5 |
| **3.** |  | **PQ** | **VG** |  |  |  |  |  |  |
|  | | **Young shoot: color** | |  | |  |  |  |  |
| green | |  | |  |  | Blushing Lady | 1 |
| yellow green | |  | |  |  | Captain Serano | 2 |
| red purple | |  | |  |  | Captain Ranomi | 3 |
| **4.** |  | **QN** | **VG** |  | **(b)** |  |  |  |  |
|  | | **Leaf blade: attitude** | |  | |  |  |  |  |
| erect | |  | |  |  | Captain Ranomi | 1 |
| erect to horizontal | |  | |  |  | Blushing Lady | 2 |
| horizontal | |  | |  |  |  | 3 |
| **5.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: length** | |  | |  |  |  |  |
| very short | |  | |  |  | Universe | 1 |
| very short to short | |  | |  |  | Captain Serano | 2 |
| short | |  | |  |  | Blushing Lady | 3 |
| short to medium | |  | |  |  | Captain Ranomi | 4 |
| medium | |  | |  |  | Snowstar | 5 |
| medium to long | |  | |  |  |  | 6 |
| long | |  | |  |  | Sapporo | 7 |
| long to very long | |  | |  |  | Flamingo | 8 |
| very long | |  | |  |  |  | 9 |
| **6.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: width** | |  | |  |  |  |  |
| very narrow | |  | |  |  | KONZWHITEA | 1 |
| very narrow to narrow | |  | |  |  |  | 2 |
| narrow | |  | |  |  |  | 3 |
| narrow to medium | |  | |  |  | Captain Ranomi | 4 |
| medium | |  | |  |  | Captain Chelsea | 5 |
| medium to broad | |  | |  |  |  | 6 |
| broad | |  | |  |  | Flamingo | 7 |
| broad to very broad | |  | |  |  |  | 8 |
| very broad | |  | |  |  |  | 9 |
| **7.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: ratio length /width** | |  | |  |  |  |  |
| very low | |  | |  |  |  | 1 |
| very low to low | |  | |  |  | Dream Lady | 2 |
| low | |  | |  |  |  | 3 |
| low to medium | |  | |  |  | Royal Blizz | 4 |
| medium | |  | |  |  | Captain Ranomi | 5 |
| medium to high | |  | |  |  | Royal Dutch | 6 |
| high | |  | |  |  |  | 7 |
| high to very high | |  | |  |  |  | 8 |
| very high | |  | |  |  |  | 9 |
| **8.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: size of lobes** | |  | |  |  |  |  |
| absent or very small | |  | |  |  | KONZWHITEA | 1 |
| small | |  | |  |  | Universe | 2 |
| medium | |  | |  |  |  | 3 |
| large | |  | |  |  | Flamingo | 4 |
| very large | |  | |  |  |  | 5 |
| **9.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: angle of apex** | |  | |  |  |  |  |
| acute | |  | |  |  | Captain Redwood | 1 |
| acute to obtuse | |  | |  |  | Karetta | 2 |
| obtuse | |  | |  |  |  | 3 |
| **10.** | **(\*)** | **QN** | **MG/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: number of spots** | |  | |  |  |  |  |
| absent or very few | |  | |  |  | Izzy Mae | 1 |
| very few to few | |  | |  |  | Dream Lady | 2 |
| few | |  | |  |  | Captain Serano | 3 |
| few to medium | |  | |  |  | Outback | 4 |
| medium | |  | |  |  | KONZWHITEA | 5 |
| medium to many | |  | |  |  | Captain Chelsea | 6 |
| many | |  | |  |  | Captain Nevado | 7 |
| many to very many | |  | |  |  | Royal Blizz | 8 |
| very many | |  | |  |  |  | 9 |
| **11.** | **(\*)** | **QN** | **MG/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: size of spots** | |  | |  |  |  |  |
| very small | |  | |  |  |  | 1 |
| very small to small | |  | |  |  | Paco | 2 |
| small | |  | |  |  | Dream Lady | 3 |
| small to medium | |  | |  |  | Outback | 4 |
| medium | |  | |  |  | Universe | 5 |
| medium to large | |  | |  |  | Captain Tango | 6 |
| large | |  | |  |  | Captain Ranomi | 7 |
| large to very large | |  | |  |  |  | 8 |
| very large | |  | |  |  |  | 9 |
| **12.** | **(\*)** | **QN** | **VG** |  | **(b)** |  |  |  |  |
|  | | **Leaf blade: intensity of green color** | |  | |  |  |  |  |
| very light | |  | |  |  |  | 1 |
| light | |  | |  |  | Dream Lady | 2 |
| medium | |  | |  |  | Captain Tango | 3 |
| dark | |  | |  |  | Royal Blizz | 4 |
| very dark | |  | |  |  |  | 5 |
| **13.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: secondary color** | |  | |  |  |  |  |
| none | |  | |  |  |  | 1 |
| yellow | |  | |  |  |  | 2 |
| red | |  | |  |  |  | 3 |
| red purple | |  | |  |  | Dozanpinha | 4 |
| purple | |  | |  |  | Karetta | 5 |
| **14.** | **(\*)** | **PQ** | **VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Leaf blade: distribution of secondary color** | |  | |  |  |  |  |
| none | |  | |  |  | Royal Blizz | 1 |
| on margin | |  | |  |  | Dozanpinha | 2 |
| marginal zone | |  | |  |  |  | 3 |
| Throughout | |  | |  |  | Karetta | 4 |
| **15.** |  | **QN** | **VG** |  | **(b)** |  |  |  |  |
|  | | **Leaf blade: undulation of margin** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  |  | 1 |
| weak | |  | |  |  | Luxury | 2 |
| medium | |  | |  |  | Captain Redwood | 3 |
| strong | |  | |  |  | Dozanpinha | 4 |
| very strong | |  | |  |  |  | 5 |
| **16.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(b)** |  |  |  |  |
|  | | **Petiole: length** | |  | |  |  |  |  |
| very short | |  | |  |  | Universe | 1 |
| short | |  | |  |  | Captain Chelsea | 2 |
| medium | | courte | | kurz | corta | Paco | 3 |
| long | |  | |  |  | Royal Blizz | 4 |
| very long | | moyenne | | mittel | media | Royal Dutch | 5 |
| **17.** | **(\*)** | **PQ** | **VG** |  | **(b)** |  |  |  |  |
|  | | **Petiole: color of basal third** | |  | |  |  |  |  |
| light green | |  | |  |  | Dozanwhumba | 1 |
| medium green | |  | |  |  | KONZWHITEA | 2 |
| dark green | |  | |  |  | Royal Dutch | 3 |
| yellow green | |  | |  |  |  | 4 |
| brown red | |  | |  |  | Izzy Mae | 5 |
| purple | |  | |  |  | Captain Tango | 6 |
| **18.** |  | **QN** | **MG/MS/VG** |  | **(c)** |  |  |  |  |
|  | | **Peduncle: length** | |  | |  |  |  |  |
| very short | |  | |  |  |  | 1 |
| very short to short | |  | |  |  | Universe | 2 |
| short | |  | |  |  | Snowstar | 3 |
| short to medium | |  | |  |  | Captain Tango | 4 |
| medium | |  | |  |  | Paco | 5 |
| medium to long | |  | |  |  | Izzy Mae | 6 |
| long | |  | |  |  |  | 7 |
| long to very long | |  | |  |  | Royal Blizz | 8 |
| very long | |  | |  |  | Flamingo | 9 |
| **19.** |  | **QN** | **MG/MS/VG** |  | **(c)** |  |  |  |  |
|  | | **Peduncle: thickness** | |  | |  |  |  |  |
| very thin | |  | |  |  | Paco | 1 |
| thin | |  | |  |  | Dozanwhumba | 2 |
| medium | |  | |  |  | Captain Ranomi | 3 |
| thick | |  | |  |  | Captain Tango | 4 |
| very thick | |  | |  |  | Royal Blizz | 5 |
| **20.** |  | **QN** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Peduncle: anthocyanin coloration** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  | Royal Blizz | 1 |
| weak | |  | |  |  | Captain Redwood | 2 |
| medium | |  | |  |  | Captain Chelsea | 3 |
| strong | |  | |  |  | Dozanpinha | 4 |
| very strong | |  | |  |  | Starry Night | 5 |
| **21.** | **(\*)** | **QN** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Inflorescence: position in relation to foliage** | |  | |  |  |  |  |
| slightly above | |  | |  |  | Captain Serano | 1 |
| strongly above | |  | |  |  | Flamingo | 2 |
| **22.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: length in side view** | |  | |  |  |  |  |
| very short | |  | |  |  |  | 1 |
| very short to short | |  | |  |  |  | 2 |
| short | |  | |  |  | Dream Lady | 3 |
| short to medium | |  | |  |  | Captain Tango | 4 |
| medium | |  | |  |  | Dozanpinha | 5 |
| medium to long | |  | |  |  | Captain Chelsea | 6 |
| long | |  | |  |  |  | 7 |
| long to very long | |  | |  |  | Flamingo | 8 |
| very long | |  | |  |  |  | 9 |
| **23.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: length of overlapping part** | |  | |  |  |  |  |
| absent or very short | |  | |  |  |  | 1 |
| very short to short | |  | |  |  |  | 2 |
| short | |  | |  |  | Flamingo | 3 |
| short to medium | |  | |  |  |  | 4 |
| medium | |  | |  |  | Captain Ranomi | 5 |
| medium to long | |  | |  |  |  | 6 |
| long | |  | |  |  | Captain Chelsea | 7 |
| long to very long | |  | |  |  | Outback | 8 |
| very long | |  | |  |  |  | 9 |
| **24.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: length** | |  | |  |  |  |  |
| very short | |  | |  |  |  | 1 |
| very short to short | |  | |  |  | Royal Blizz | 2 |
| short | |  | |  |  | Dozanwhumba | 3 |
| short to medium | |  | |  |  | Captain Redwood | 4 |
| medium | |  | |  |  | Captain Linda | 5 |
| medium to long | |  | |  |  | Sapporo | 6 |
| long | |  | |  |  |  | 7 |
| long to very long | |  | |  |  | Flamingo | 8 |
| very long | |  | |  |  |  | 9 |
| **25.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: width** | |  | |  |  |  |  |
| very narrow | |  | |  |  |  | 1 |
| very narrow to narrow | |  | |  |  |  | 2 |
| narrow | |  | |  |  |  | 3 |
| narrow to medium | |  | |  |  | Captain Tango | 4 |
| medium | |  | |  |  | Captain Redwood | 5 |
| medium to broad | |  | |  |  |  | 6 |
| broad | |  | |  |  |  | 7 |
| broad to very broad | |  | |  |  | Flamingo | 8 |
| very broad | |  | |  |  |  | 9 |
| **26.** |  | **PQ** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: natural shape of distal part** | |  | |  |  |  |  |
| acute | |  | |  |  | Captain Lorenzo | 1 |
| obtuse | |  | |  |  |  | 2 |
| round | |  | |  |  | Novi Sun | 3 |
| **27.** | **(\*)** | **QN** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: undulation of margin** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  | Captain Tango | 1 |
| weak | |  | |  |  | Outback | 2 |
| medium | |  | |  |  | Captain Redwood | 3 |
| strong | |  | |  |  |  | 4 |
| very strong | |  | |  |  |  | 5 |
| **28.** | **(\*)** | **QN** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: recurving of margin** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  | Luxury | 1 |
| weak | |  | |  |  | Royal Blizz | 2 |
| medium | |  | |  |  | Dozanwhumba | 3 |
| strong | |  | |  |  | Dream Lady | 4 |
| very strong | |  | |  |  |  | 5 |
| **29.** | **(\*)** | **QN** | **VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spathe: recurving of tip** | |  | |  |  |  |  |
| absent or very weak | |  | |  |  | Dozanwhumba | 1 |
| weak | |  | |  |  |  | 2 |
| medium | |  | |  |  | Royal Blizz | 3 |
| strong | |  | |  |  | Captain Tango | 4 |
| very strong | |  | |  |  | Captain Ranomi | 5 |
| **30.** |  | **PQ** | **VG** |  | **(c), (d)** |  |  |  |  |
|  | | **Spathe: main color of inner side** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **31.** |  | **PQ** | **VG** | **(+)** | **(c), (d)** |  |  |  |  |
|  | | **Spathe: secondary color of inner side** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **32.** |  | **PQ** | **VG** | **(+)** | **(c), (d)** |  |  |  |  |
|  | | **Spathe: distribution of secondary color of inner side** | |  | |  |  |  |  |
| none | |  | |  |  | Captain Tango | 1 |
| basal zone | |  | |  |  |  | 2 |
| central zone | |  | |  |  | Dozanwhumba | 3 |
| apex | |  | |  |  |  | 4 |
| marginal zone | |  | |  |  | Captain Ranomi | 5 |
| throughout | |  | |  |  | Royal Dutch | 6 |
| **33.** |  | **PQ** | **VG** | **(+)** | **(c), (d)** |  |  |  |  |
|  | | **Spathe: pattern of secondary color of inner side** | |  | |  |  |  |  |
| solid | |  | |  |  |  | 1 |
| flushed | |  | |  |  | Royal Dutch | 2 |
| striped | |  | |  |  |  | 3 |
| speckled | |  | |  |  |  | 4 |
| **34.** |  | **QN** | **MG/MS/VG** |  | **(c)** |  |  |  |  |
|  | | **Spathe: size of throat spot** | |  | |  |  |  |  |
| absent or very small | |  | |  |  | Captain Tango | 1 |
| small | |  | |  |  | Royal Blizz | 2 |
| medium | |  | |  |  | Dozanpinha | 3 |
| large | |  | |  |  | Captain Lorenzo | 4 |
| very large | |  | |  |  | Captain Miro | 5 |
| **35.** |  | **PQ** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Spathe: color of throat spot** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **36.** |  | **PQ** | **VG** |  | **(c), (d)** |  |  |  |  |
|  | | **Spathe: main color of outer side** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |
| **37.** |  | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spadix: thickness** | |  | |  |  |  |  |
| very thin | |  | |  |  |  | 1 |
| thin | |  | |  |  | Konartorange | 2 |
| medium | |  | |  |  | Captain Lorenzo | 3 |
| thick | |  | |  |  | Dozanpinha | 4 |
| very thick | |  | |  |  | Universe | 5 |
| **38.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c)** |  |  |  |  |
|  | | **Spadix: length** | |  | |  |  |  |  |
| very short | |  | |  |  | KONZWHITEA | 1 |
| very short to short | |  | |  |  | Captain Redwood | 2 |
| short | |  | |  |  | Royal Dutch | 3 |
| short to medium | |  | |  |  | Dozanwhumba | 4 |
| medium | |  | |  |  | Captain Ranomi | 5 |
| medium to long | |  | |  |  |  | 6 |
| long | |  | |  |  |  | 7 |
| long to very long | |  | |  |  | Flamingo | 8 |
| very long | |  | |  |  |  | 9 |
| **39.** |  | **PQ** | **VG** |  | **(c)** |  |  |  |  |
|  | | **Spadix: main color** | |  | |  |  |  |  |
| white | |  | |  |  |  | 1 |
| yellow green | |  | |  |  |  | 2 |
| light yellow | |  | |  |  | Dream Lady | 3 |
| medium yellow | |  | |  |  | Dozanwhumba | 4 |
| yellow orange | |  | |  |  | Captain Tango | 5 |
| orange brown | |  | |  |  |  | 6 |
| orange red | |  | |  |  |  | 7 |
| pink | |  | |  |  |  | 8 |
| purple red | |  | |  |  | Dozantoky | 9 |
| purple | |  | |  |  | Starry Night | 10 |
| **40.** |  | **PQ** | **VG** | **(+)** | **(e)** |  |  |  |  |
|  | | **Spathe: main color on aging** | |  | |  |  |  |  |
| RHS Colour Chart (indicate reference number) | |  | |  |  |  |  |

# Explanations on the Table of Characteristics

## 8.1  Explanations covering several characteristics

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

(a) Observations should be made at the time of full flowering.

(b) Observations should be made on full-grown leaves.

(c) Observations should be made on fully ripe flowers when pollen starts to become loose.

(d) 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.

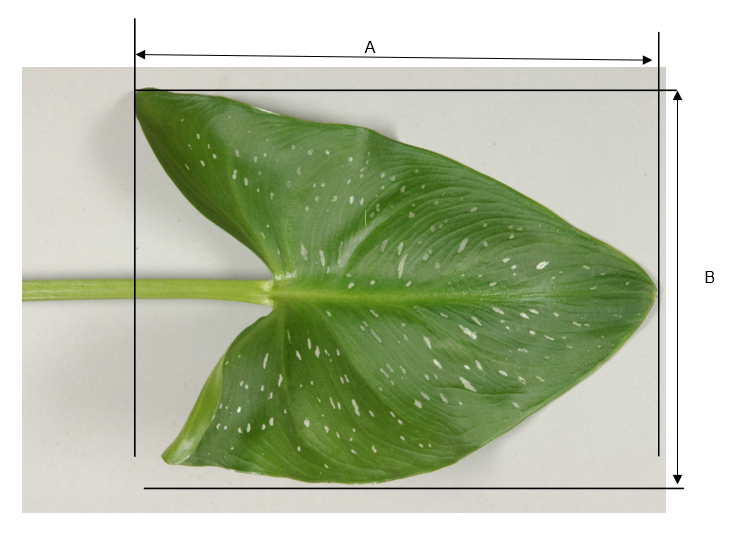
(e) Observations should be made after three to four weeks after the pollen has become loose.

## 8.2  Explanations for individual characteristics

Ad. 1: Plant: height



Ad. 5: Leaf blade: length



A = Leaf blade: length  
B = Leaf blade: width

Ad. 6: Leaf blade: width

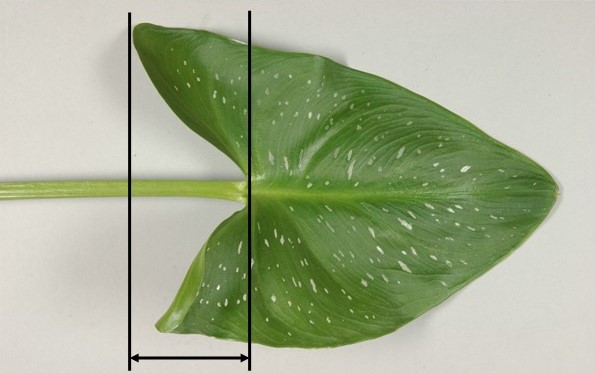
See ad Leaf blade: length

Ad. 7: Leaf blade: ratio length /width

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 3 | 5 | 7 |
| low | medium | high |

Ad. 8: Leaf blade: size of lobes

Observations should be made relative to the full size of the leaf blade.



Ad. 9: Leaf blade: angle of apex

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 2 | 3 |
| acute | acute to obtuse | obtuse |

Ad. 10: Leaf blade: number of spots

|  |  |
| --- | --- |
|  |  |
| 1 | 3 |
| absent or very few | few |

|  |  |
| --- | --- |
|  |  |
| 5 | 7 |
| medium | many |

Ad. 11: Leaf blade: size of spots

Observation should be made relative to the full size of the leaf blade.

Ad. 13: Leaf blade: secondary color

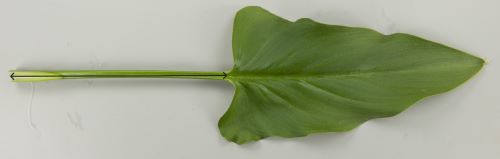
Observation should be made exclusive the leafspots

Ad. 14: Leaf blade: distribution of secondary color

|  |  |
| --- | --- |
|  |  |
| 2 | 4 |
| on margin | throughout |

Ad. 16: Petiole: length

Observations should be made including leaf sheath.

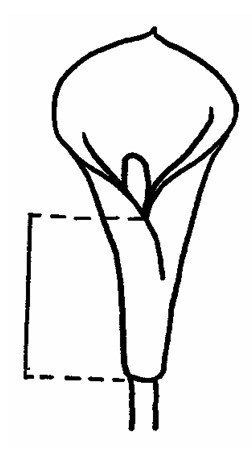


Ad. 22: Spathe: length in side view



Ad. 23: Spathe: length of overlapping part

Observations should be made relative to the full size of the spathe.



Ad. 24: Spathe: length

Observations should be made from above.



Ad. 25: Spathe: width

Observations should be made from above.



Ad. 26: Spathe: natural shape of distal part

Observation should be made excluding caudate tip.

|  |  |
| --- | --- |
|  |  |
| 1 | 3 |
| acute | round |

Ad. 27: Spathe: undulation of margin

photo will follow

Ad. 28: Spathe: recurving of margin

|  |  |
| --- | --- |
|  |  |
| 2 | 4 |
| weak | strong |

Ad. 29: Spathe: recurving of tip

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1 | 3 | 5 |
| absent or very weak | medium | very strong |

Ad. 31: Spathe: secondary color of inner side

Observations should be made excluding the throat spot.

Ad. 32: Spathe: distribution of secondary color of inner side

Observations should be made excluding the throat spot.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| 2 | 3 | 5 | 6 |
| basal zone | central zone | marginal zone | throughout |

Ad. 33: Spathe: pattern of secondary color of inner side

|  |
| --- |
|  |
| 2 |
| flushed |

Ad. 37: Spadix: thickness

Observations should be made at the middle of male part.



Ad. 38: Spadix: length

Observation should made on the male part.  
A close-up of a yellow object

Description automatically generated

Ad. 40: Spathe: main color on aging

Observations should be made three to four weeks after the pollen has become loose.

# Literature

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Tija, B.O., 1989: Zantedeschia in Handbook of Flowering (Halevy, A.H. ed.) Volume VI, CRC Press, Boca Raton, pp 697-702  
  
Knippes, P, 2019, De teelt en broei van Zantedeschia

# Technical Questionnaire

|  |  |  |  |
| --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
|  |  |  | |
|  |  | Application date:  (not to be filled in by the applicant) | |
| TECHNICAL QUESTIONNAIRE  to be completed in connection with an application for plant breeders' rights | | | |
| 1. Subject of the Technical Questionnaire | | | |
| 1.1.1 Botanical name | *Zantedeschia* Spreng. | |  |
|  |  | |  |
| 1.1.2 Common name | Zantedeschia | |  |
|  |  | |  |
| 1.1.3 Species: |  | |  |
| 2. Applicant | | | |
| Name |  | |  |
|  |  | |  |
| Address |  | |  |
|  |  | |  |
| Telephone No. |  | |  |
|  |  | |  |
| Fax No. |  | |  |
|  |  | |  |
| E-mail address |  | |  |
|  |  | |  |
| Breeder (if different from  applicant) |  | |  |
|  |  | |  |

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

|  |  |  |
| --- | --- | --- |
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|  |
| --- |
| #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 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 Seed-propagated varieties  (a) Self-pollination [ ]  (b) Cross-pollination [ ]  (c) Hybrid [ ]  (d) Inbred line [ ]  (e) Other (please provide details) [ ]  4.2.2 Vegetative propagation  (a) Tuber [ ]  (b) In vitro propagation [ ]  (c) Division [ ]  (d) Rhizomes [ ]  (e) Other (state method) [ ]  4.2.3 Other  (Please provide details) [ ] |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | | Page {x} of {y} | | Reference Number: | |
|  | | | | | |
| 5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds). | | | | | |
|  | Characteristics | | Example Varieties | | Note |
| **5.1**  **(8)** | **Leaf blade: size of lobes** | |  | |  |
|  | absent or very small | | KONZWHITEA | | 1 [ ] |
|  | small | | Universe | | 2 [ ] |
|  | medium | |  | | 3 [ ] |
|  | large | | Flamingo | | 4 [ ] |
|  | very large | |  | | 5 [ ] |
| **5.2**  **(10)** | **Leaf blade: number of spots** | |  | |  |
|  | absent or very few | | Izzy Mae | | 1 [ ] |
|  | very few to few | | Dream Lady | | 2 [ ] |
|  | few | | Captain Serano | | 3 [ ] |
|  | few to medium | | Outback | | 4 [ ] |
|  | medium | | KONZWHITEA | | 5 [ ] |
|  | medium to many | | Captain Chelsea | | 6 [ ] |
|  | many | | Captain Nevado | | 7 [ ] |
|  | many to very many | | Royal Blizz | | 8 [ ] |
|  | very many | |  | | 9 [ ] |
| **5.3**  **(24)** | **Spathe: length** | |  | |  |
|  | very short | |  | | 1 [ ] |
|  | very short to short | | Royal Blizz | | 2 [ ] |
|  | short | | Dozanwhumba | | 3 [ ] |
|  | short to medium | | Captain Redwood | | 4 [ ] |
|  | medium | | Captain Linda | | 5 [ ] |
|  | medium to long | | Sapporo | | 6 [ ] |
|  | long | |  | | 7 [ ] |
|  | long to very long | | Flamingo | | 8 [ ] |
|  | very long | |  | | 9 [ ] |
|  |  | |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TECHNICAL QUESTIONNAIRE | | Page {x} of {y} | | Reference Number: | |
|  | |  | |  | |
|  | Characteristics | | Example Varieties | | Note |
| **5.4**  **(25)** | **Spathe: width** | |  | |  |
|  | very narrow | |  | | 1 [ ] |
|  | very narrow to narrow | |  | | 2 [ ] |
|  | narrow | |  | | 3 [ ] |
|  | narrow to medium | | Captain Tango | | 4 [ ] |
|  | medium | | Captain Redwood | | 5 [ ] |
|  | medium to broad | |  | | 6 [ ] |
|  | broad | |  | | 7 [ ] |
|  | broad to very broad | | Flamingo | | 8 [ ] |
|  | very broad | |  | | 9 [ ] |
| **5.5 (i)**  **(30)** | **Spathe: main color of inner side** | |  | |  |
|  | RHS Colour Chart (indicate reference number) | |  | |  |
| **5.5 (ii)**  **(30)** | **Spathe: main color of inner side** | |  | |  |
|  | white | |  | | 1 [ ] |
|  | yellowish white | |  | | 2 [ ] |
|  | yellow | |  | | 3 [ ] |
|  | yellow brown | |  | | 4 [ ] |
|  | yellow orange | |  | | 5 [ ] |
|  | orange | |  | | 6 [ ] |
|  | orange red | |  | | 7 [ ] |
|  | red | |  | | 8 [ ] |
|  | purple red | |  | | 9 [ ] |
|  | pink | |  | | 10 [ ] |
|  | red pink | |  | | 11 [ ] |
|  | purple | |  | | 12 [ ] |
|  | other (please indicate) | |  | | 13 [ ] |
|  |  | |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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|  | |  | |  | |
|  | Characteristics | | Example Varieties | | Note |
| **5.6**  **(34)** | **Spathe: size of throat spot** | |  | |  |
|  | absent or very small | | Captain Tango | | 1 [ ] |
|  | small | | Royal Blizz | | 2 [ ] |
|  | medium | | Dozanpinha | | 3 [ ] |
|  | large | | Captain Lorenzo | | 4 [ ] |
|  | very large | | Captain Miro | | 5 [ ] |
|  |  | |  | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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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* | *Leaf blade: number of spots* | | *few* | | *many* |
|  | | | | | | |
|  | | | | | | |
|  | | | | | | |
| 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     -    Special conditions for the examination of the variety (a)    conditions for planting -    to be covered completely with soil                 [   ] -    to be partly uncovered                                  [   ] (b)    other conditions                                          [   ]     -    Use of the variety (a)  garden                   [   ] (b)  cut flower               [   ] (c)  pot plant                 [   ] | | | |

|  |  |  |  |
| --- | --- | --- | --- |
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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”.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?  Yes [ ]  (please provide details as specified by the Authority)  No [ ] | | | |
| 10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct: | | | |
| Applicant’s name |  | | |
| Signature |  | Date |  |
|  | [End of document] | | |