



TG/SUTERA(proj.2)

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

DRAFT

| | |
|--|---|
| <p>SUTERA</p> <p>UPOV Code: SUTER</p> <p><i>Sutera</i> Roth</p> <p>JAMESBRITTENIA</p> <p>UPOV Code: JAMES</p> <p><i>Jamesbrittenia</i> O. Kuntze</p> | * |
|--|---|

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

prepared by an expert from Germany

to be considered by the

*Technical Working Party for Ornamental Plants and Forest Trees at its thirty-ninth session,
to be held in Fortaleza, Ceará State, Brazil, from August 28 to September 1, 2006*

Alternative Names:*

| <i>Botanical name</i> | <i>English</i> | <i>French</i> | <i>German</i> | <i>Spanish</i> |
|---------------------------------|----------------|---------------|----------------|----------------|
| <i>Sutera</i> Roth | Sutera | Sutera | Sutera | Sutera |
| <i>Jamesbrittenia</i> O. Kuntze | Jamesbrittenia | | Jamesbrittenia | |

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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* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Sutera* Roth and *Jamesbrittenia* O. Kuntze and hybrids between them, of the family *Scrophulariaceae*.

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 rooted cuttings.

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

20 rooted cuttings

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

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be a single growing cycle.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. Except where otherwise indicated, the optimum stage of development for the assessment of the characteristics is at the time of full flowering.

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.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 15 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 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.

3.6 *Additional Tests*

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

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.2.2 For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 15 plants, 1 off-type is allowed.

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 tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Leaf blade: variegation (characteristic 13)
- (b) Flower: type (characteristic 15)
- (c) Corolla lobe: number of colors of upper side (characteristic 20)
- (d) Corolla lobe: main color of upper side (characteristic 21) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
 - Gr. 5: violet

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

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*

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.

6.3 *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*

(*) Asterisked characteristic – see Chapter 6.1.2

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-Qualitative characteristic – Chapter 6.3

(a) See Explanations on the Table of Characteristics in Chapter 8.1.

(+) See Explanations on the Table of Characteristics in Chapter 8.2

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

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|----------------------------------|---|----------|---|---------|--|---------------|
| 1. (* (*) | Plant: height | | Pflanze: Höhe | | | |
| QN | very short | | sehr niedrig | | Giwhisto 12 | 1 |
| | short | | niedrig | | | 3 |
| | medium | | mittel | | Yasflos | 5 |
| | tall | | hoch | | Sumsut 02 | 7 |
| 2. (* (*) (+) | Shoot: length | | Trieb: Länge | | | |
| QN | short | | kurz | | Wesbadream | 3 |
| | medium | | mittel | | Giwhisto 12 | 5 |
| | long | | lang | | Dancoplace | 7 |
| 3. | Shoot: length of internodes (middle third of shoot) | | Trieb: Internodienlänge (im mittleren Drittel des Triebes) | | | |
| QN | short | | kurz | | Gicomwhi 14 | 3 |
| | medium | | mittel | | Giwhisto 12 | 5 |
| | long | | lang | | Yaspea | 7 |
| 4. | Shoot: anthocyanin coloration (upper third of shoot) | | Trieb: Anthocyanfärbung (im oberen Drittel des Triebes) | | | |
| QN | absent or very weak | | fehlend oder sehr gering | | | 1 |
| | weak | | gering | | Sumsut 03 | 3 |
| | medium | | mittel | | | 5 |
| | strong | | stark | | Novasnow | 7 |
| | very strong | | sehr stark | | | 9 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------------------------------------|---|----------------------|--|------------------------|--|---------------|
| 5. | Petiole: length | | Blattstiel: Länge | | | |
| QN | (a) | absent or very short | | fehlend oder sehr kurz | | 1 |
| | | short | | kurz | Sumsut 03 | 3 |
| | | medium | | mittel | | 5 |
| | | long | | lang | Dancop 18 | 7 |
| 6. (*) (+) | Leaf: type | | Blatt: Typ | | | |
| QL | (a) | simple | | einfach | | 1 |
| | | pinnate | | zusammengesetzt | | 2 |
| 7. (*) (+) | Leaf blade: length | | Blattspreite: Länge | | | |
| QN | (a) | short | | kurz | Wesbadream | 3 |
| | | medium | | mittel | Eskimo | 5 |
| | | long | | lang | Giwhisto 12 | 7 |
| 8. (*) (+) | Leaf blade: width | | Blattspreite: Breite | | | |
| QN | (a) | narrow | | schmal | Wesbadream | 3 |
| | | medium | | mittel | Eskimo | 5 |
| | | broad | | breit | Giwhisto 12 | 7 |
| 9. | Leaf blade: length/width ratio | | Blattspreite: Verhältnis Länge/Breite | | | |
| QN | (a) | small | | klein | | 3 |
| | | medium | | mittel | | 5 |
| | | large | | groß | | 7 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|--------------------|---|----------|--|---------|--|---------------|
| 10. (+) | Leaf blade: position of broadest part | | Blattspreite: Position der breitesten Stelle | | | |
| PQ | (a) towards the middle | | mehr zur Mitte | | | 1 |
| | towards the base | | mehr zur Basis | | | 2 |
| 11. (+) | <u>Only varieties with simple leaves:</u> Leaf blade: depth of incisions of margin | | <u>Nur Sorten mit einfachen Blättern:</u> Blattspreite: Tiefe der Randeinschnitte | | | |
| QN | (a) absent or very shallow | | fehlend oder sehr flach | | | 1 |
| | shallow | | flach | | | 3 |
| | medium | | mittel | | | 5 |
| | deep | | tief | | | 7 |
| 12. | Young leaf: color (if clearly different from color of fully developed leaf) | | Junges Blatt: Farbe (falls deutlich verschieden von der Farbe des ausgewachsenen Blattes) | | | |
| PQ | white | | weiß | | | 1 |
| | yellow | | gelb | | Dancop 15 | 2 |
| 13. (*) | Leaf blade: variegation | | Blattspreite: Panaschierung | | | |
| QL | (a) absent | | fehlend | | Wesbadream | 1 |
| | present | | vorhanden | | | 9 |
| 14. (+) | Leaf blade: main color of upper side | | Blattspreite: Hauptfarbe der Oberseite | | | |
| PQ | (a) yellow | | gelb | | | 1 |
| | light green | | hellgrün | | | 2 |
| | medium green | | mittelgrün | | Eskimo | 3 |
| | dark green | | dunkelgrün | | | 4 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---------------------------|--|----------|--|---------|--|---------------|
| 15. (*) | Flower: type | | Blüte: Typ | | | |
| QL | single | | einfach | | Wesbadream | 1 |
| | double | | gefüllt | | Sumsut 03 | 2 |
| 16. (* (+) | Flower: length | | Blüte: Länge | | | |
| QN | short | | kurz | | | 3 |
| | medium | | mittel | | | 5 |
| | long | | lang | | | 7 |
| 17. (* (+) | Flower: width | | Blüte: Breite | | | |
| QN | very narrow | | sehr schmal | | | 1 |
| | narrow | | schmal | | Wesbadream | 3 |
| | medium | | mittel | | Wesbavio | 5 |
| | broad | | breit | | Giwhisto 12 | 7 |
| | very broad | | sehr breit | | | 9 |
| 18. (+) | Corolla lobe: width | | Kronzipfel: Breite | | | |
| QN | narrow | | schmal | | Wesbadream | 3 |
| | medium | | mittel | | Wesbavio | 5 |
| | broad | | breit | | Gicomwhi 14 | 7 |
| 19. (+) | Corolla lobe: shape of apex | | Kronzipfel: Form der Spitze | | | |
| PQ | pointed | | spitz | | | 1 |
| | rounded | | rundlich | | | 2 |
| | truncate | | flach | | | 3 |
| | retuse | | eingedrückt | | | 4 |

| | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|-----------------------------------|--|----------|---|---------|--|---------------|
| 20. (* (*) | Corolla lobe: number of colors of upper side (excluding corolla tube) | | Kronzipfel: Anzahl Farben der Oberseite (ohne Kronröhre) | | | |
| QL | one | | eine | | Wesbadream | 1 |
| | two | | zwei | | Dancop 18 | 2 |
| | more than two | | mehr als zwei | | | 3 |
| 21. (* (*) (+) | Corolla lobe: main color of upper side | | Kronzipfel: Hauptfarbe der Oberseite | | | |
| PQ | RHS Colour Chart (indicate reference number) | | RHS-Farbkarte (Nummer angeben) | | | |
| 22. (* (*) | Corolla lobe: secondary color of upper side | | Kronzipfel: Sekundärfarbe der Oberseite | | | |
| PQ | white | | weiß | | | 1 |
| | yellow | | gelb | | | 2 |
| | dark pink | | dunkelrosa | | | 3 |
| | dark purple | | dunkelpurpurn | | | 4 |
| | dark violet | | dunkelviolett | | | 5 |
| 23. (+) | Corolla tube: length | | Kronröhre: Länge | | | |
| QN | short | | kurz | | | 3 |
| | medium | | mittel | | | 5 |
| | long | | lang | | | 7 |
| 24. (+) | <u>Only varieties with single flowers:</u> Corolla tube: main color at transition to corolla lobe | | <u>Nur Sorten mit einfachen Blüten:</u> Kronröhre: Hauptfarbe am Übergang zum Kronlappen | | | |
| PQ | yellow | | gelb | | | 1 |
| | yellow orange | | gelborange | | | 2 |
| | orange | | orange | | | 3 |

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

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

(a) Observations on the leaf should be made on the fully developed basal leaf (leaf located at the base of the shoot).

8.2 *Explanations for individual characteristics*

Ad. 2: Shoot: length

The shoot length should be observed towards the end of full flowering.

Ad. 6: Leaf: type



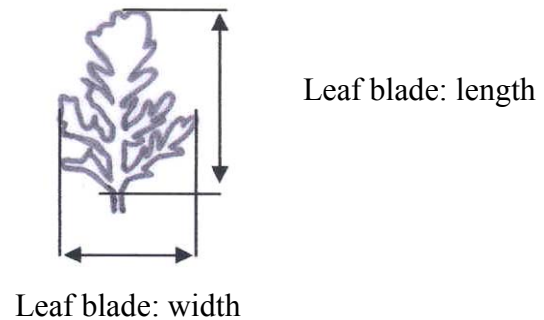
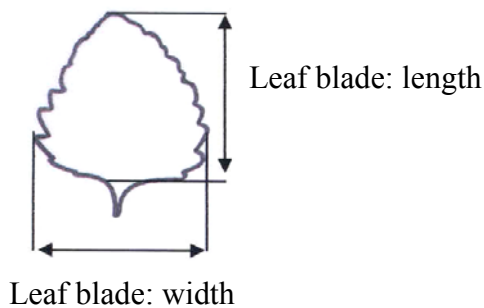
1
simple



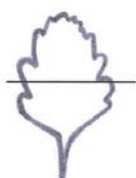
2
pinnate

Ad. 7: Leaf blade: length

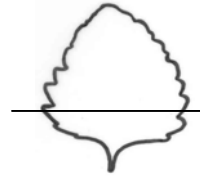
Ad. 8: Leaf blade : width



Ad. 10: Leaf blade: position of the broadest part

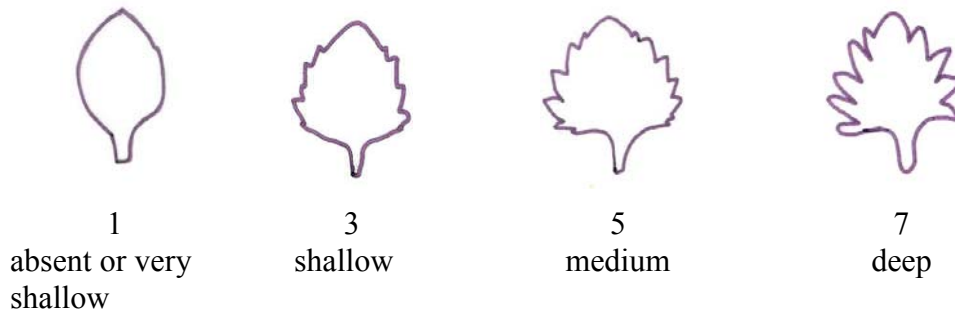


1
towards the middle



2
towards the base

Ad. 11: Only varieties with simple leaves: Leaf blade: depth of incisions of margin



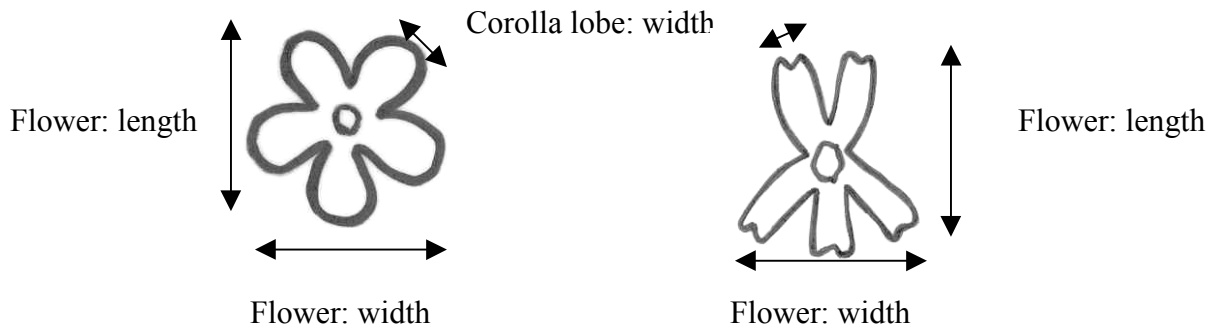
Ad. 14: Leaf blade: main color of upper side

The main color is the color of the largest area of the leaf. If the area of the colors is nearly half and half, the darker color is the main color.

Ad. 16: Flower: length

Ad. 17: Flower: width

Ad. 18: Corolla lobe: width



Ad. 19: Corolla lobe: shape of apex

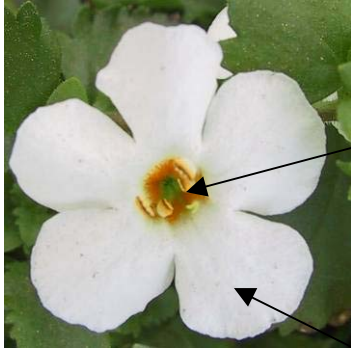


Ad. 21: Corolla lobe: main color of upper side

Ad. 22: Corolla lobe: secondary color of upper side

Ad. 24: Only varieties with single flowers:

Corolla tube: main color at transition to corolla lobe



Corolla tube: main color at transition to corolla lobe (on both pictures: orange)



Corolla lobe: secondary color of upper side (here: dark purple)

Corolla lobe: main color of upper side

Ad. 23: Corolla tube: length



length

9. Literature

Hilliard, O.M. , 1994: The Manuleae. A Tribe of Scrophulariaceae, Edinburgh University Press

10. Technical Questionnaire

| | | |
|--|---|---|
| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
| | | Application date: (not to be filled in by the applicant) |
| TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | | |
| 1. Subject of the Technical Questionnaire | | |
| 1.1 Genus | <input type="text" value="Sutera Roth"/> | [] |
| 1.2 Species | | |
| Botanical name | <input type="text"/> | |
| (please complete) | | |
| Common name | <input type="text"/> | |
| 2.1 Genus | <input type="text" value="Jamesbrittenia O. Kuntze"/> | [] |
| 2.2 Species | | |
| Botanical name | <input type="text"/> | |
| (please complete) | | |
| Common name | <input type="text"/> | |
| 3.1 Hybrid: please indicate name(s) of genera and species used in the crossing | | |
| Botanical name | <input type="text"/> | [] |
| 2. Applicant | | |
| Name | <input type="text"/> | |
| Address | <input type="text"/> | |
| Telephone No. | <input type="text"/> | |
| Fax No. | <input type="text"/> | |
| E-mail address | <input type="text"/> | |
| Breeder (if different from applicant) | <input type="text"/> | |

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

3. Proposed denomination and breeder's reference

Proposed denomination
(if available)

Breeder's reference

#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

- (a) controlled cross
(please state parent varieties)
- (b) partially known cross
(please state known parent variety(ies))
- (c) unknown cross

4.1.2 Mutation
(please state parent variety)

4.1.3 Discovery
(please state where and when discovered and how developed)

4.1.4 Other
(please provide details)

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings
- (b) *in vitro* propagation
- (c) other (state method)

4.2.2 Seed

4.2.3 Other
(please provide details)

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

| | | |
|-------------------------|-----------------|-------------------|
| 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 Leaf blade: variegation (13) | | |
| absent | Wesbadream | 1[] |
| present | | 9[] |
| 5.2 Flower: type (15) | | |
| single | Wesbadream | 1[] |
| double | Sumsut 03 | 2[] |
| 5.3 Flower: width (17) | | |
| very narrow | | 1[] |
| narrow | Wesbadream | 3[] |
| medium | Wesbavio | 5[] |
| broad | Giwhisto 12 | 7[] |
| very broad | | 9[] |
| 5.4 Corolla lobe: number of colors of upper side (excluding corolla tube) (20) | | |
| one | Wesbadream | 1[] |
| two | Dancop 18 | 2[] |
| more than two | | 3[] |

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

| Characteristics | Example Varieties | Note |
|---|-------------------|------|
| 5.5i Corolla lobe: main color of upper side (21) | | |
| RHS Colour Chart (indicate reference number) | | |
| 5.5ii Corolla lobe: main color of upper side (21) | | |
| white | | 1[] |
| pink | | 2[] |
| red | | 3[] |
| purple | | 4[] |
| violet | | 5[] |
| other color (indicate which) | | |
| 5.6 Corolla lobe: secondary color of upper side (22) | | |
| white | | 1[] |
| yellow | | 2[] |
| dark pink | | 3[] |
| dark purple | | 4[] |
| dark violet | | 5[] |
| other color (indicate which) | | |

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

6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

| Denomination(s) of variety(ies) similar to your candidate variety | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | Describe the expression of the characteristic(s) for the similar variety(ies) | Describe the expression of the characteristic(s) for your candidate variety |
|---|---|---|---|
| <i>(Example)</i> | <i>Flower: width</i> | <i>broad</i> | <i>medium</i> |
| | | | |
| | | | |
| | | | |

#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 should accompany the Technical Questionnaire.

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

| | | |
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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