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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

CAMPANULA

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*Campanula* L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from the United Kingdom**to be considered by the**Technical Working Party for Ornamental Plants and Forest Trees  
at its forty-seventh session, to be held in Naivasha, Kenya, from May 19 to 23, 2014**Alternative Names:\**

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Campanula</i> L.	Campanula, Bell flower	Campanule	Glockenblume	Campánula

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.

\* 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](http://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 *Campanula* L.

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:

10 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.

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. The plants should be grown in containers to observe the plant growth habit (characteristic 1).

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 10 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.

#### 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 / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 9 plants or parts taken from each of 9 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 second column of 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 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 10 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.

### 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: growth habit (characteristic 1)
- (b) Plant: height (characteristic 2)
- (c) Flower: attitude (characteristic 20)
- (d) Flower: type (characteristic 21)
- (e) Corolla: number of whorls (characteristic 25)
- (f) Corolla: main color of outer side (characteristic 28)
  - Gr. 1: white
  - Gr. 2: pink
  - Gr. 3: red purple
  - Gr. 4: purple
  - Gr. 5: blue
- (g) Corolla: main color of inner side (characteristic 34)
  - Gr. 1: white
  - Gr. 2: pink
  - Gr. 3: red purple
  - Gr. 4: purple
  - Gr. 5: blue
- (h) Corolla: spots on inner side (characteristic 37)

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”.

## 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 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

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*

- (\*) Asterisk characteristic – see Chapter 6.1.2
- QL Qualitative characteristic – see Chapter 6.3
- QN Quantitative characteristic – see Chapter 6.3
- PQ Pseudo-qualitative characteristic – see Chapter 6.3
  
- MG, MS, VG, VS – see Chapter 4.1.5
  
- (a)-(d) 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
<b>1. VG</b> <b>(*)</b> <b>(+)</b>	<b>Plant: growth habit</b>					
<b>PQ (a)</b>	upright				La Bello	1
	semi-upright				Sarastro	2
	spreading				PKMP05	3
	horizontal				Blue Rivulet	4
	drooping				Camp trailbule	5
<b>2. VG/</b> <b>(*)</b> <b>(+)</b>	<b>Plant: height</b>					
<b>MG/</b>						
<b>MS</b>						
<b>QN (a)</b>	extremely short					1
	very short				Samantha	3
	short				Caroline	5
	medium				Sarastro	7
	tall				Kent Belle	9
	very tall					11
	extremely tall				Aida	13
<b>3. VG/</b> <b>(+)</b>	<b>Plant: width</b>					
<b>MG/</b>						
<b>MS</b>						
<b>QN (a)</b>	very narrow					1
	narrow				Napoli Blue	3
	medium				PKMP05	5
	broad				Sarastro	7
	very broad				Blue Rivulet	9
<b>4. VG</b> <b>(+)</b>	<b>Plant: density</b>					
<b>QN (a)</b>	very sparse				PKM01	1
	sparse				Caroline	3
	medium				Samantha	5
	dense				PKMP05	7
	very dense				PKMP01	9



English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>5. VG Stem: color</b>					
<b>(+)</b>					
<b>PQ (a)</b>	yellow green			Blue Eyed Blonde	1
	light green			PKMP05	2
	medium green			Sarastro	3
	dark green			PKM01	4
	grey green			PKMFOR168	5
	green tinged with red purple			Blue Rivulet	6
	red purple			Silver Bells	7
<b>6. VG/ Leaf blade: length</b>					
<b>(*) MG/ MS</b>					
<b>QN (b)</b>	very short			PKMP05	1
	short			Napoli Blue	3
	medium			Blue Rivulet	5
	long			Caroline	7
	very long			Elizabeth	9
<b>7. VG/ Leaf blade: width at</b>					
<b>(*) MG/ broadest part</b>					
<b>MS</b>					
<b>QN (b)</b>	very narrow			Pink Octopus	1
	narrow			Blue Eyed Blonde	3
	medium			Caroline	5
	broad			Silver Bells	7
	very broad			Sarastro	9
<b>8. VG/ Leaf blade: length/width</b>					
<b>(*) MG/ ratio</b>					
<b>(+) MS</b>					
<b>QN (b)</b>	low			Caroline	3
	medium			Pink Octopus	5
	high			Blue Eyed Blond	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>9.</b>	<b>VG</b>					
	<b>(+)</b>					
	<b>Leaf blade: position of broadest part</b>					
<b>QN</b>	<b>(b)</b>					
	strongly towards base					1
	moderately towards base					2
	at middle					3
	towards apex					4
<b>10.</b>	<b>VG</b>					
	<b>(+)</b>					
	<b>Leaf blade: shape of apex</b>					
<b>PQ</b>	<b>(b)</b>					
	acuminate					1
	acute					2
	obtuse					3
<b>11.</b>	<b>VG</b>					
	<b>(+)</b>					
	<b>Leaf blade: shape of base</b>					
<b>PQ</b>	<b>(b)</b>					
	attenuate					1
	acute					2
	obtuse					3
	rounded					4
	truncate					5
	cordate					6
<b>12.</b>	<b>VG</b>					
	<b>(*)</b>					
	<b>Leaf blade: variegation</b>					
<b>QL</b>	<b>(b)</b>					
	absent				Pink Octopus	1
	present				Kifu	9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>13. VG Leaf blade: main color</b>					
<b>(*)</b>					
<b>(+)</b>					
<b>PQ (b)</b>	whitish				1
	yellow			Kifu	2
	yellow green			Blue Eyed Blonde	3
	light green			Caroline	4
	medium green			Sarastro	5
	dark green			PKM01	6
	grey green			Silver Bells	7
	green tinged with purplish red			Blue Rivulet	8
<b>14. VG Leaf blade: rugosity</b>					
<b>QN (b)</b>	absent or very weak			PKM01	1
	weak			Pink Octopus	2
	medium			Sarastro	3
	strong			Elizabeth	4
	very strong			Hot Lips	5
<b>15. VG Leaf blade: glossiness</b>					
<b>QN (b)</b>	absent or very weak			PKM01	1
	weak			Pink Octopus	2
	medium			Caroline	3
	strong			Silver Bells	4
<b>16. VG Leaf blade: pubescence</b>					
<b>(*)</b>					
<b>QN (b)</b>	absent or very sparse			PKM01	1
	sparse			Pink Octopus	2
	medium			Sarastro	3
	dense			Caroline	4
	very dense			PKMFOR168	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>17. VG</b>	<b>Leaf blade: indentations of margin</b>					
<b>(+)</b>						
<b>QN (b)</b>	absent or very few				PKM01	1
	few				Napoli Blue	2
	medium				Sarastro	3
	many				Caroline	4
	very many				Elizabeth	5
<b>18. VG</b>	<b>Leaf blade: depth of indentations of margin</b>					
<b>(+)</b>						
<b>QN (b)</b>	very shallow				PKM01	1
	shallow				Caroline	2
	medium				Pink Octopus	3
	deep				Camp trailbule	4
	very deep				Sarastro	5
<b>19. VG</b>	<b>Leaf blade: undulation of margin</b>					
<b>(+)</b>						
<b>QN (b)</b>	absent or very weak				Sarastro	1
	weak				Caroline	2
	medium				Elizabeth	3
	strong				PKMFOR168	4
	very strong				Hot Lips	5
<b>20. VG</b>	<b>Flower: attitude</b>					
<b>(*)</b>						
<b>(+)</b>						
<b>QN (c)</b>	upwards				Samantha	1
	slightly outwards				PKMP05	2
	strongly outwards				Blue Eyed Blonde	3
	slightly downwards				Pink Octopus	4
	strongly downwards				Sarastro	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>21.</b>	<b>VG Flower: type</b>					
(*)						
(+)						
<b>PQ (c)</b>	tubular					1
	campanulate					2
	rotate					3
	stellate (with strap-shaped lobes)					4
<b>22.</b>	<b>VG Calyx: petaloid lobes</b>					
(*)						
(+)						
<b>QL (c)</b>	absent				Kent Belle	1
	present				Pantaloons	9
<b>23.</b>	<b>VG <u>Only varieties with calyx:</u> <u>petaloid lobes present:</u> Calyx lobe: color of outer side</b>					
<b>PQ (c)</b>	RHS Colour Chart (indicate reference number)					
<b>24.</b>	<b>VG Calyx: position of lobes</b>					
(+)						
<b>QN (c)</b>	adpressed to corolla					1
	moderately spreading					3
	horizontal					5
	moderately reflexed					7
	strongly reflexed					9
<b>25.</b>	<b>VG Corolla: number of whorls</b>					
(*)						
(+)						
<b>QN (c)</b>	very few					1
	few					2
	medium					3
	many					4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
<b>26.</b>	<b>VG/</b>	<b>Corolla: length</b>					
<b>(*)</b>	<b>MG/</b>						
<b>(+)</b>	<b>MS</b>						
<b>QN</b>	<b>(c)</b>	very short			Blue Rivulet	1	
		short			Jelly Bells	3	
		medium			Caroline	5	
		long			Pantaloons	7	
		very long			Sarastro	9	
<b>27.</b>	<b>VG/</b>	<b>Corolla: diameter</b>					
<b>(*)</b>	<b>MG/</b>						
<b>(+)</b>	<b>MS</b>						
<b>QN</b>	<b>(c)</b>	very small				1	
		small			PKMP05	3	
		medium			Sarastro	5	
		large			Blue Eyed Blonde	7	
		very large			Pink Octopus	9	
<b>28.</b>	<b>VG</b>	<b>Corolla: main color of outer side</b>					
<b>(*)</b>							
<b>PQ</b>	<b>(c)</b>	RHS Colour Chart					
	<b>(d)</b>	(indicate reference number)					
<b>29.</b>	<b>VG</b>	<b>Corolla: secondary color of outer side</b>					
<b>(*)</b>							
<b>PQ</b>	<b>(c)</b>	RHS Colour Chart					
	<b>(d)</b>	(indicate reference number)					
<b>30.</b>	<b>VG</b>	<b>Corolla: distribution of secondary color of outer side</b>					
<b>(+)</b>							
<b>PQ</b>	<b>(c)</b>	none				1	
	<b>(d)</b>	distal quarter				2	
		basal half				3	
		basal quarter				4	
		at base				5	
		marginal zone				6	
		midribs				7	
		midribs and marginal zone				8	
		along veins				9	

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>31. VG (*)</b>	<b>Corolla: spots on outer side</b>					
<b>QL (c)</b>	absent				Sarastro	1
	present				Pink Chimes	9
<b>32. VG (+)</b>	<b>Corolla: distribution of spots on outer side</b>					
<b>PQ (c)</b>	mainly in basal quarter					1
	mainly in basal half					2
	mainly in basal three quarters					3
	throughout					4
	mainly along basal quarter of midribs					5
	mainly along basal half of midribs					6
	mainly along basal three quarters of midribs					7
	mainly along entire length of midribs					8
<b>33. VG</b>	<b>Corolla: density of spots on outer side</b>					
<b>QN (c)</b>	very sparse					1
	sparse				Silver Bells	3
	medium				Elizabeth	5
	dense				Pink Chimes	7
	very dense					9
<b>34. VG (*)</b>	<b>Corolla: main color of inner side</b>					
<b>PQ (c)</b>	RHS Colour Chart					
<b>(d)</b>	(indicate reference number)					
<b>35. VG (*)</b>	<b>Corolla: secondary color of inner side</b>					
<b>PQ (c)</b>	RHS Colour Chart					
<b>(d)</b>	(indicate reference number)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>36. VG (+)</b>	<b>Corolla: distribution of secondary color of inner side</b>					
<b>PQ (c)</b>	none					1
<b>(d)</b>	distal quarter					2
	basal half					3
	basal quarter					4
	at base					5
	marginal zone					6
	midribs					7
	longitudinal zone (lobe sinus to base)					8
	along veins					9
<b>37. VG (*)</b>	<b>Corolla: spots on inner side</b>					
<b>QL (c)</b>	absent				La Bello	1
	present				Pink Octopus	9
<b>38. VG (+)</b>	<b>Corolla: distribution of spots on inner side</b>					
<b>PQ (c)</b>	mainly in basal quarter					1
	mainly in basal half					2
	mainly in basal three quarters					3
	throughout					4
	mainly along basal quarter of midribs					5
	mainly along basal half of midribs					6
	mainly along basal three quarters of midribs					7
	mainly along entire length of midribs					8



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>39. VG</b>	<b>Corolla: density of spots on inner side</b>					
<b>QN (c)</b>	very sparse					1
	sparse				Silver Bells	3
	medium				Pink Octopus	5
	dense				Pink Chimes	7
	very dense				Hot Lips	9
<b>40. VG</b>	<b>Corolla: color of spots on inner side</b>					
<b>PQ (c)</b>	RHS Colour Chart (indicate reference number)					
<b>41. VG (*)</b>	<b>Corolla: pubescence of inner side</b>					
<b>QL (c)</b>	absent				Caroline	1
	present				Pink Octopus	9
<b>42. VG/ MG/ MS (+)</b>	<b>Corolla: length of fused part</b>					
<b>QN (c)</b>	absent or extremely short				Pink Octopus	1
	very short				PKM01	3
	short				Caroline	5
	medium				Kent Belle	7
	long				Pantaloons	9
	very long				Elizabeth	11
	extremely long				Sarastro	13
<b>43. VG (*) (+)</b>	<b>Corolla: length of fused part compared to total corolla length</b>					
<b>QN (c)</b>	absent or very short					1
	short					3
	medium					5
	long					7
	very long					9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					
	<b>MS</b>					
<b>44.</b>	<b>VG/</b>					
<b>(+)</b>	<b>MG/</b>					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>48. VG/ MG/ MS (+)</b>	<b>Corolla lobe: width</b>					
<b>QN (c)</b>	very narrow				Blue Rivulet	1
	narrow				Caroline	3
	medium				Kent Belle	5
	broad				La Bello	7
	very broad				Blue Eyed Blonde	9
<b>49. VG (*) (+)</b>	<b>Corolla lobe: curvature</b>					
<b>QN (c)</b>	very weakly incurving					1
	straight					2
	very weakly reflexing					3
	weakly reflexing					4
	moderately reflexing					5
	strongly reflexing					6
	very strongly reflexing					7
<b>50. VG (+)</b>	<b>Corolla lobe: shape of apex</b>					
<b>PQ (c)</b>	acuminate					1
	acute					2
	obtuse					3
	rounded					4
	truncate					5
<b>51. VG</b>	<b>Pollen: color</b>					
<b>PQ (c)</b>	whitish				Pink Octopus	1
	greenish					2
	yellowish				Caroline	3
	purplish				June Bell	4
	bluish				PKM01	5

## 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) Observation should be made on plants at the time of full flowering.
- (b) Observations on the leaf should be made on fully expanded leaves from the middle third of a flowering stem, excluding the inflorescence. Observations are not made on the basal leaves of the plant. The upper side of the leaf should always be observed unless otherwise stated.
- (c) Observations on the calyx and corolla should be made on new fully open flowers.
- (d) The main color is the color with the largest surface area, excluding any spots that may be present. The color with the second largest area is the secondary color, excluding any spots that may be present. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color. The guideline makes provision for two colors; if more colors are present, those with the smallest area should not be observed.

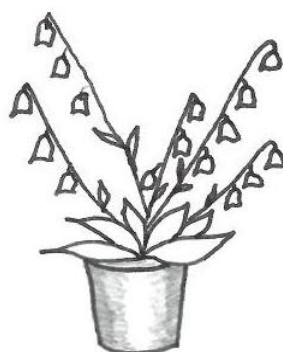
### 8.2 *Explanations for individual characteristics*

#### Ad. 1: Plant: growth habit

The plants should be grown in containers to observe the plant growth habit.



1  
upright



2  
semi-upright



3  
spreading



4  
horizontal

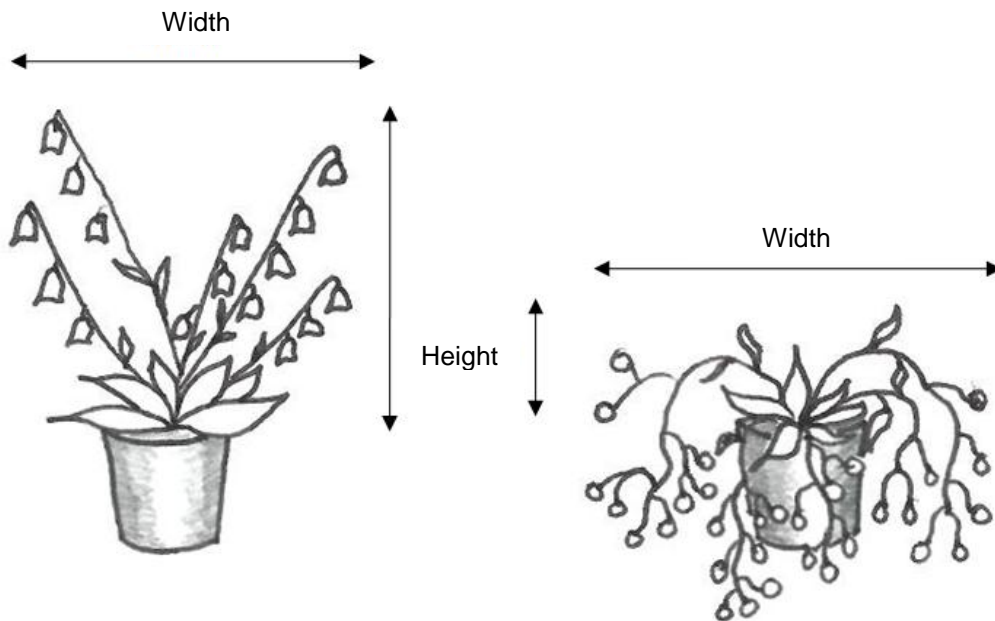


5  
drooping

Ad. 2: Plant: height

Ad. 3: Plant: width

The natural height of the plant should be assessed from the surface of the growing medium. The natural width of the plants should be observed.



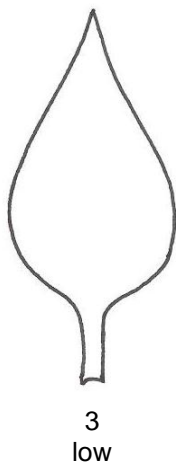
Ad. 4: Plant: density

This is an overall assessment of the density of the whole plant, including flowers and leaves.

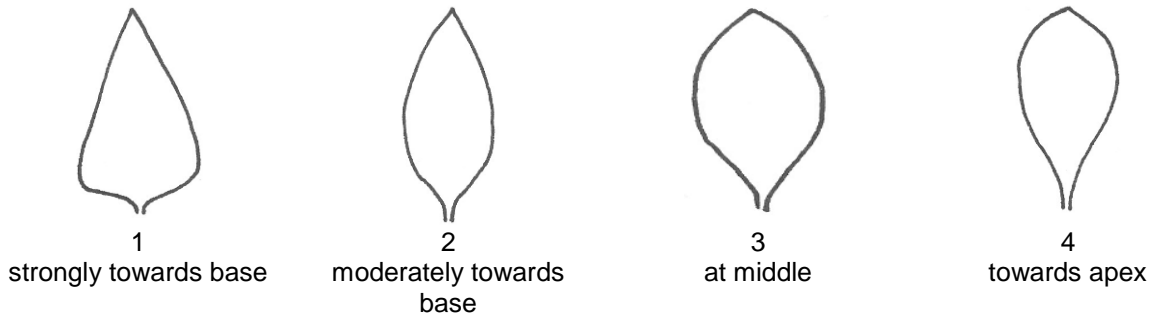
Ad. 5: Stem: color

To be observed in the middle third of the flowering stem, excluding the flowering part.

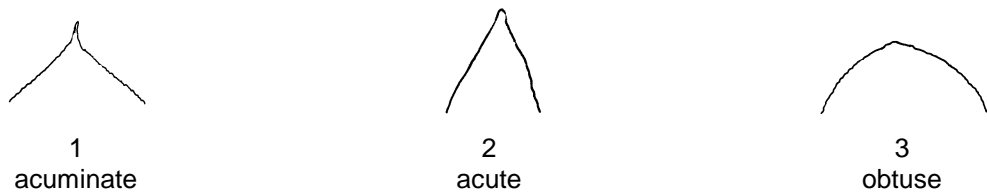
Ad. 8: Leaf blade: length/width ratio



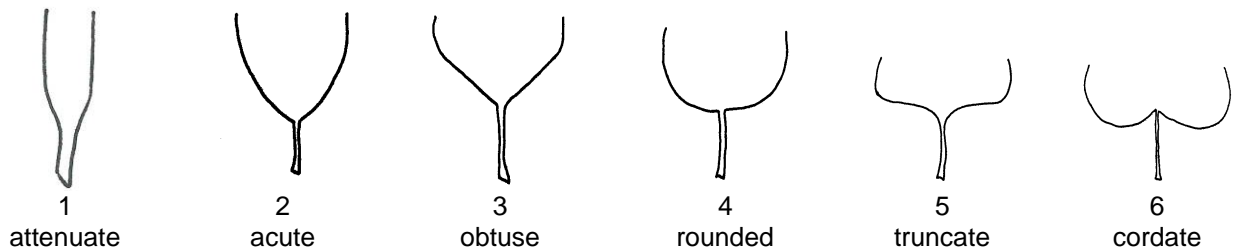
Ad. 9: Leaf blade: position of broadest part



Ad. 10: Leaf blade: shape of apex



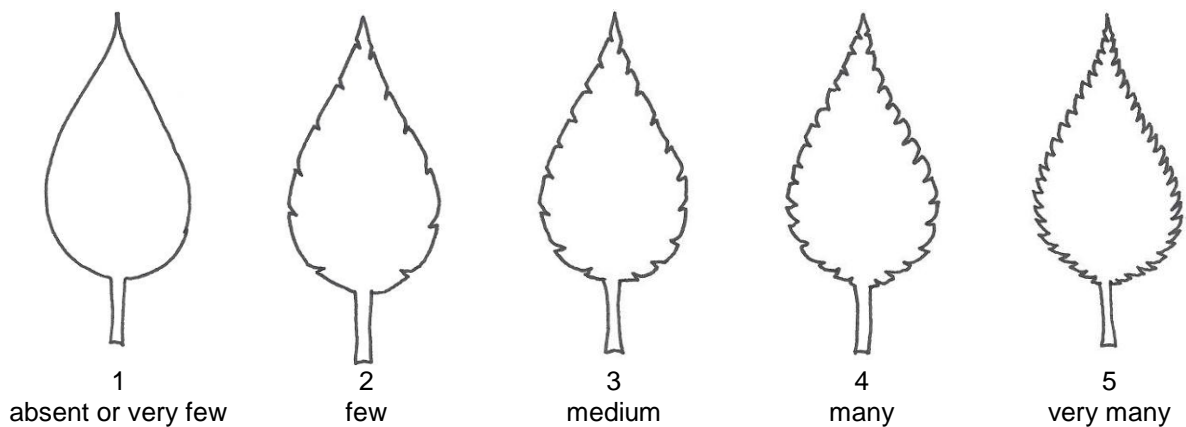
Ad. 11: Leaf blade: shape of base



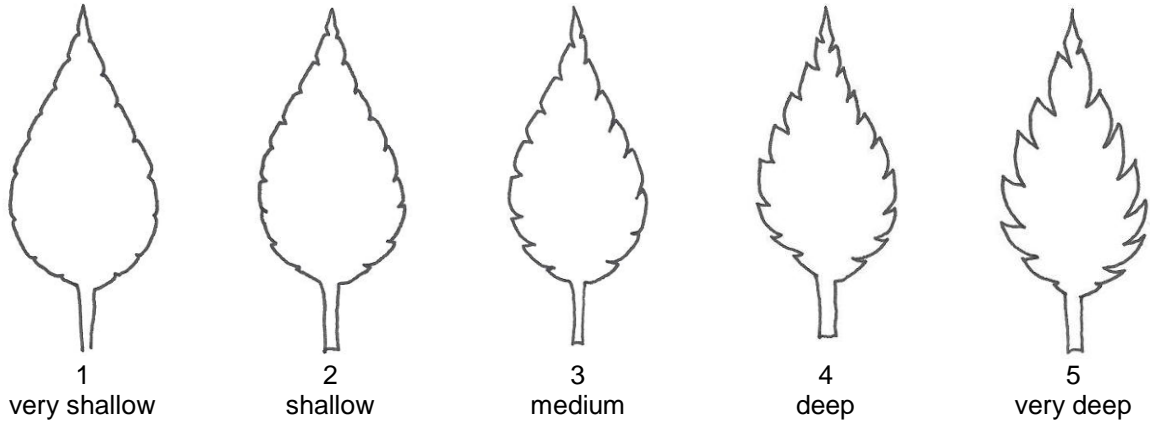
Ad. 13: Leaf blade: main color

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

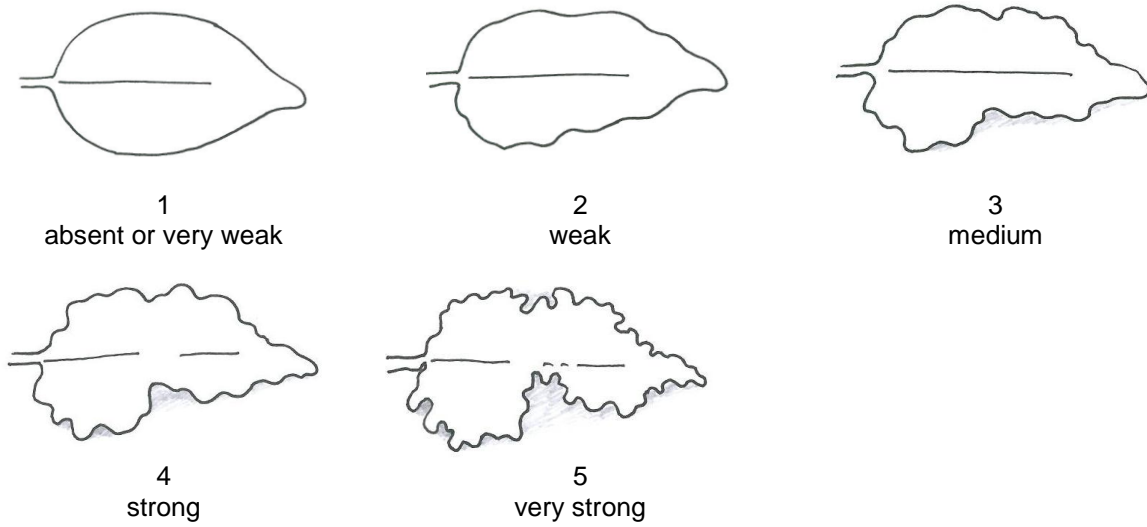
Ad. 17: Leaf blade: indentations of margin



Ad. 18: Leaf blade: depth of indentations of margin

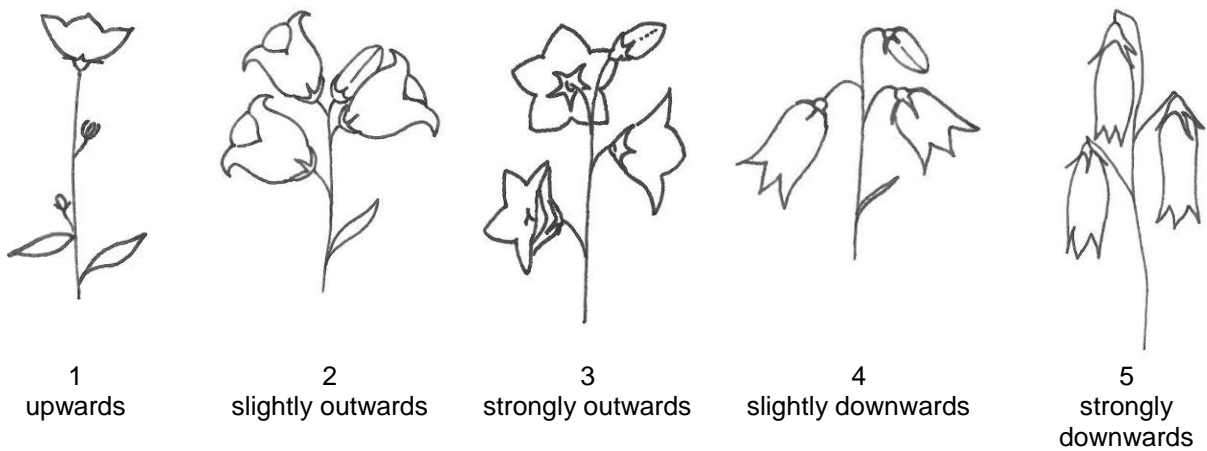


Ad. 19: Leaf blade: undulation of margin



Ad. 20: Flower: attitude

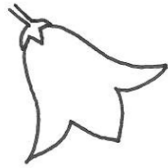
The natural attitude of the corolla should be observed irrespective of the angle of the pedicel.



Ad. 21: Flower: type



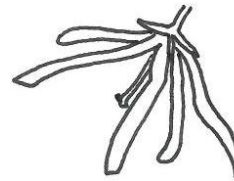
1  
tubular



2  
campanulate



3  
rotate



4  
stellate (with strap-shaped lobes)

Ad. 22: Calyx: petaloid lobes



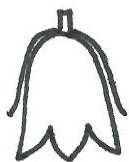
1  
absent



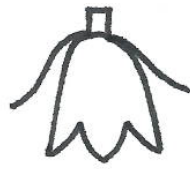
9  
present

Ad. 24: Calyx: position of lobes

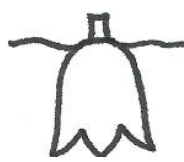
The observation is on the lobe of the calyx and excludes any appendage that might be present between the lobes.



1  
adpressed to  
corolla



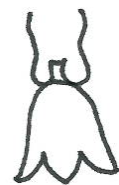
3  
moderately  
spreading



5  
horizontal



7  
moderately reflexed



9  
strongly reflexed

Ad. 25: Corolla: number of whorls

This does not include the petaloid calyx where present.



1  
very few



2  
few



3  
medium



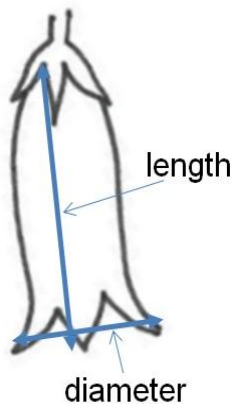
4  
many



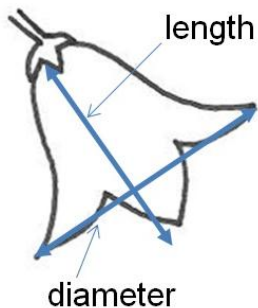
Ad. 26: Corolla: length

Ad. 27: Corolla: diameter

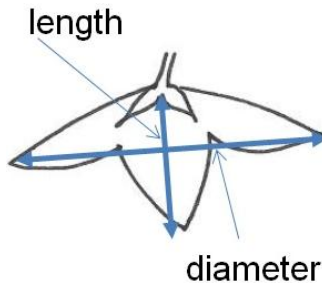
Assess the natural length of the corolla from the lowest to highest point, and assess the natural diameter of the corolla at its widest point.



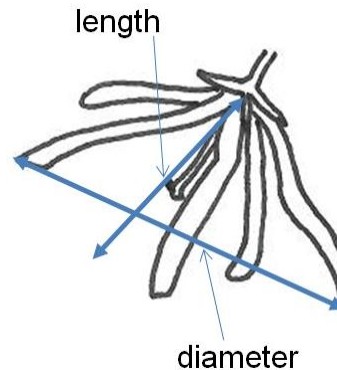
Flower type: tubular



Flower type: campanulate

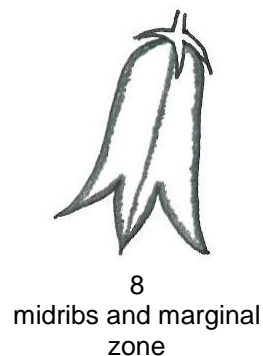


Flower type: rotate



Flower type: stellate (with strap-shaped lobes)

Ad. 30: Corolla: distribution of secondary color of outer side



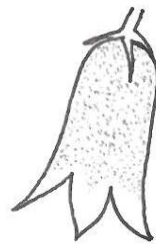
Ad. 32: Corolla: distribution of spots on outer side



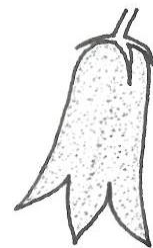
1  
mainly in basal quarter



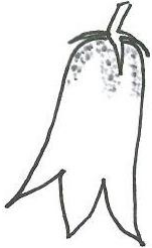
2  
mainly in basal half



3  
mainly in basal three quarters



4  
throughout



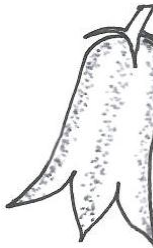
5  
mainly along basal quarter of midribs



6  
mainly along basal half of midribs

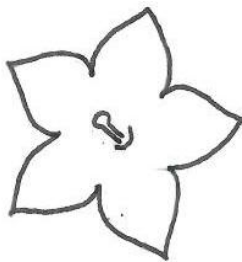


7  
mainly along basal three quarters of midribs

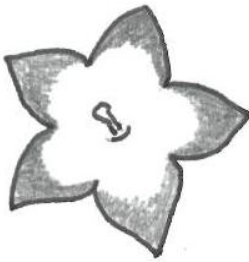


8  
mainly along entire length of midribs

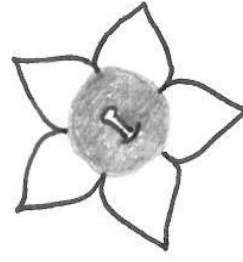
Ad. 36: Corolla: distribution of secondary color of inner side



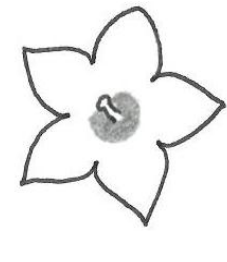
1  
none



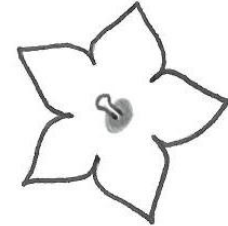
2  
distal quarter



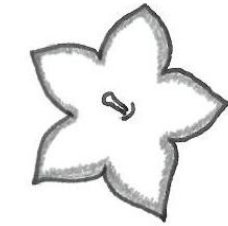
3  
basal half



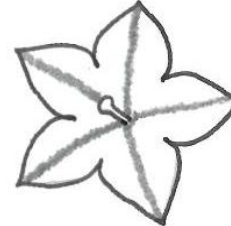
4  
basal quarter



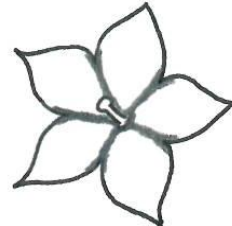
5  
at base



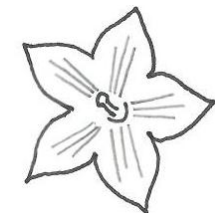
6  
marginal zone



7  
midribs

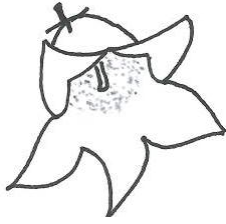


8  
longitudinal zone (lobe sinus to base)

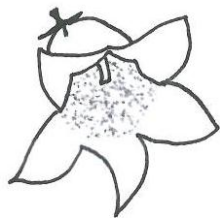


9  
along veins

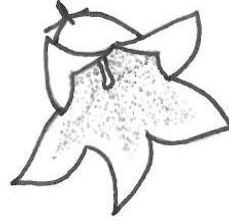
Ad. 38: Corolla: distribution of spots on inner side



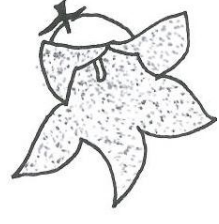
1  
mainly in basal quarter



2  
mainly in basal half



3  
mainly in basal three  
quarters



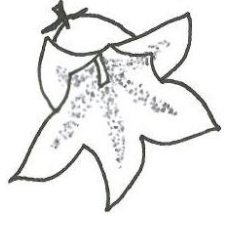
4  
throughout



5  
mainly along basal  
quarter of midribs



6  
mainly along basal half  
of midribs



7  
mainly along basal  
three quarters of  
midribs



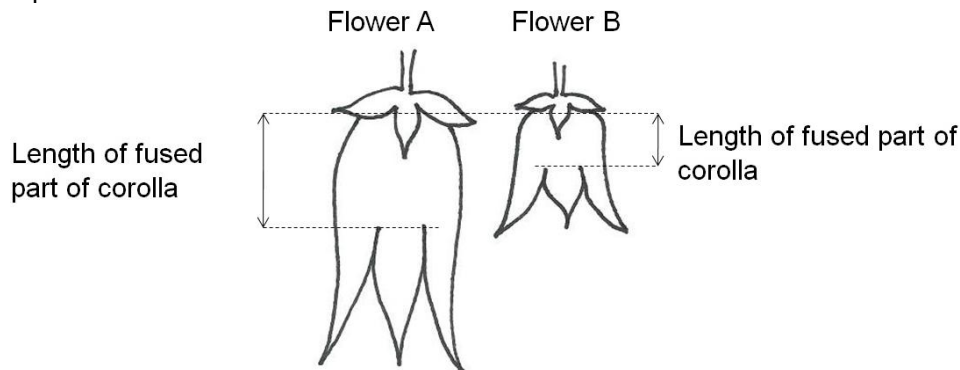
8  
mainly along entire  
length of midribs

Ad. 42: Corolla: length of fused part

Ad. 43: Corolla: length of fused part compared to total corolla length

The length of the fused part of the corolla can be expressed in absolute terms in characteristic 42, or as a proportion of the total length of the corolla in characteristic 43. The expression of the two characteristics is independent as shown in the two examples below.

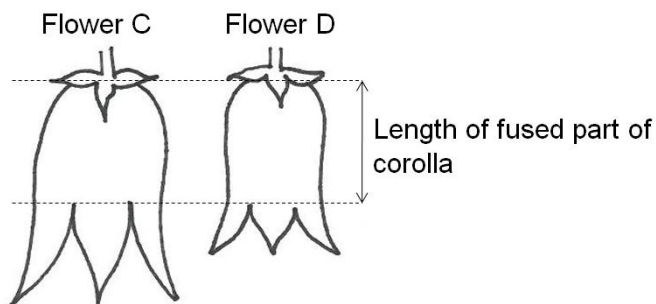
Example 1



Characteristic 42 – the note observed for the absolute length of the fused part of the corolla for flower A would be different from flower B as A is twice the length of B.

Characteristics 43 – the note observed would be the same for flower A and flower B as the proportion of the corolla made up of the fused part is 'medium' for both.

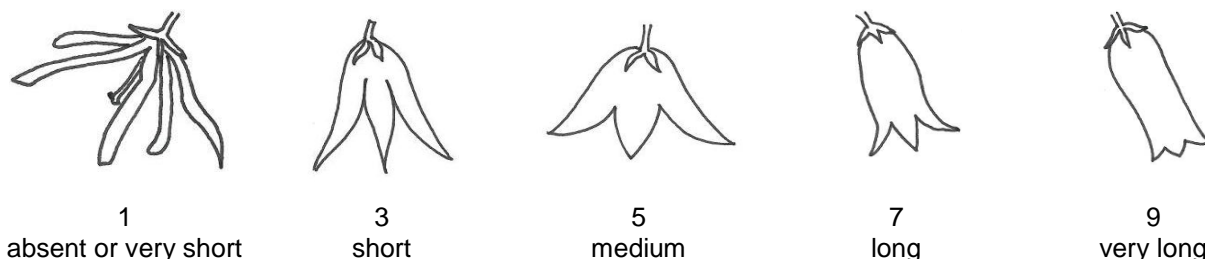
Example 2



Characteristic 42 – the note observed for the absolute length of flower C would be the same as flower D.

Characteristic 43 – the note observed for flower C would be 5 (medium) and for flower D it would be 7 (long), this is because the proportion of the corolla made up of the fused part is different.

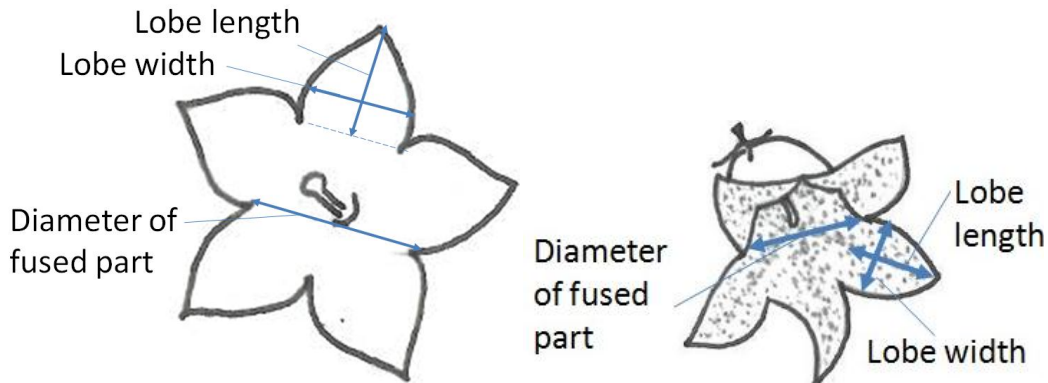
Ad. 43: Corolla: length of fused part compared to total corolla length



Ad. 44: Corolla: diameter of fused part

Ad. 47: Corolla lobe: length

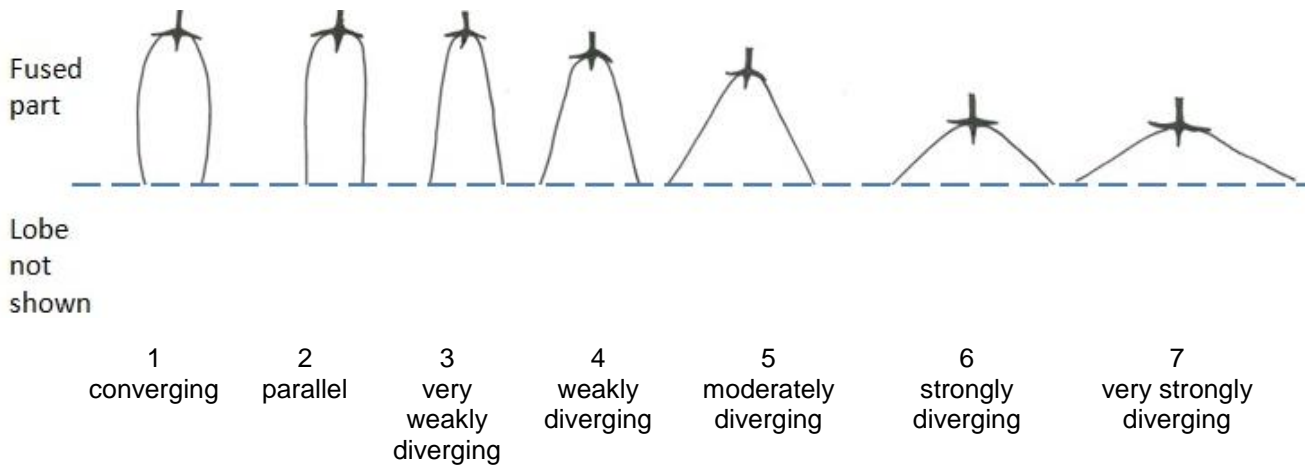
Ad. 48: Corolla lobe: width



Ad. 45: Corolla: profile of fused part in longitudinal section

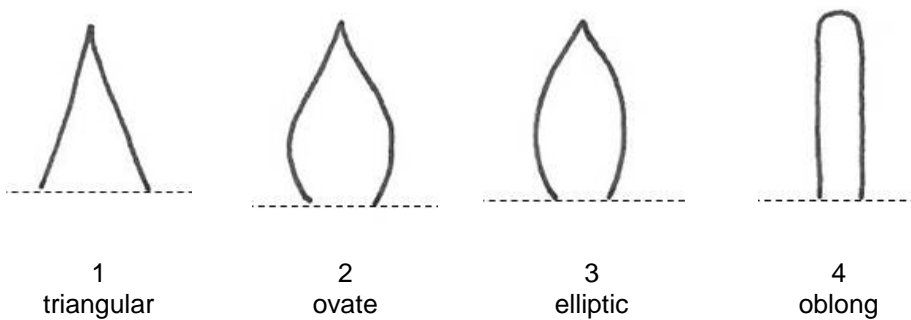
Only to be observed on varieties where characteristic 43. Corolla: length of fused part compared with total corolla length, has been observed to be equal to or greater than note 5.

The observation excludes the angle of the lobe.

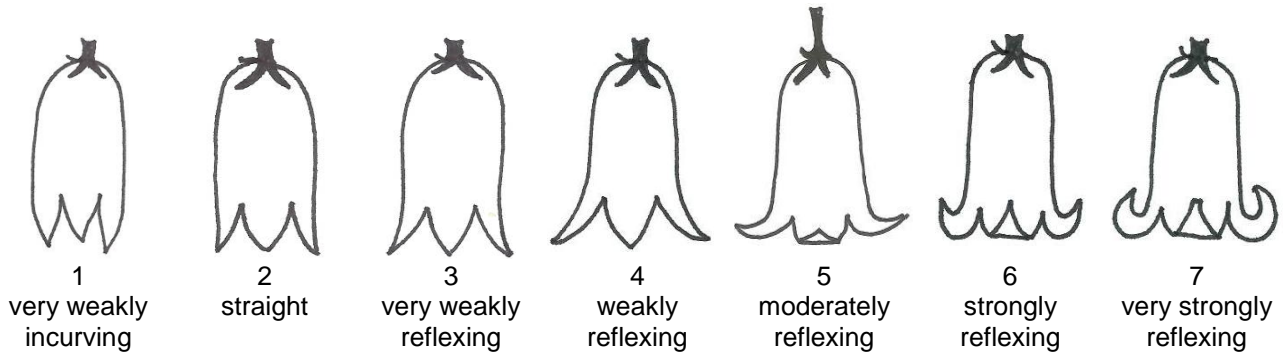


Ad. 46: Corolla lobe: shape

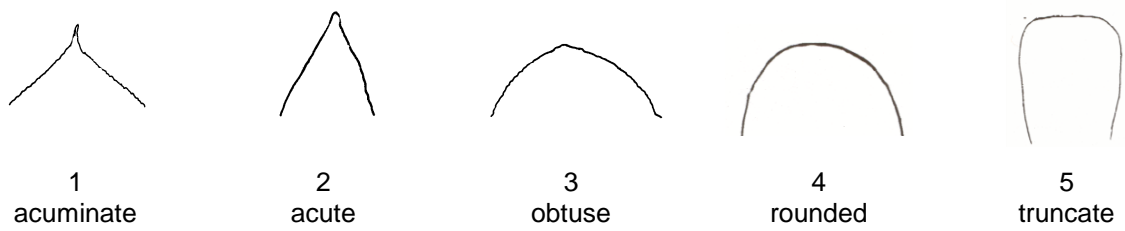
The lobe is the unfused part of the corolla.



Ad. 49: Corolla lobe: curvature



Ad. 50: Corolla lobe: shape of apex



9. Literature

Brickell, C.,(ed.), 1996: The Royal Horticultural Society A-Z Encyclopedia of Garden Plants. Dorling Kindersley Ltd.. London, GB: 219-223

Huxley, A., (ed.), Griffiths, M., (ed.), Levy, M., (ed.), 1999: The Royal Horticultural Society Dictionary of Gardening. McMillan Reference Ltd.. London, GB. 1: 485-495

Lewis, P., Lynch, M., 1989: Campanulas. Christopher Helm Ltd. Bromley, Kent, GB

Nicholls, G., 2006: Dwarf Campanulas and Associated Genera. Timber Press Inc. Oregon, US

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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	Application date: (not to be filled in by the applicant)
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TECHNICAL QUESTIONNAIRE  
to be completed in connection with an application for plant breeders' rights

1. Subject of the Technical Questionnaire

1.1	Botanical name	<input type="text" value="Campanula L."/>
1.2	Common name	<input type="text" value="Campanula"/>
1.3	Species (please complete)	<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"/>

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	<input type="text"/>
Breeder's reference	<input type="text"/>



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross   
(please state parent varieties)

(.....) 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)

.....

# 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:
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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)

.....

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
<b>5.1 Plant: growth habit (1)</b>		
upright	La Bello	1[ ]
semi-upright	Sarastro	2[ ]
spreading	PKMP05	3[ ]
horizontal	Blue Rivulet	4[ ]
drooping	Camp Trailbule	5[ ]
<b>5.2 Plant: height (2)</b>		
extremely short		1[ ]
extremely short to very short		2[ ]
very short	Samantha	3[ ]
very short to short		4[ ]
short	Caroline	5[ ]
short to medium		6[ ]
medium	Sarastro	7[ ]
medium to tall		8[ ]
tall	Kent Belle	9[ ]
tall to very tall		10[ ]
very tall		11[ ]
very tall to extremely tall		12[ ]
extremely tall	Aida	13[ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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Characteristics	Example Varieties	Note
<b>5.3 Leaf blade: main color</b> <b>(13)</b>		
whitish		1[ ]
yellow	Kifu	2[ ]
yellow green	Blue Eyed Blonde	3[ ]
light green	Caroline	4[ ]
medium green	Sarastro	5[ ]
dark green	PKM01	6[ ]
grey green	Silver Bells	7[ ]
green tinged with purplish red	Blue Rivulet	8[ ]
<b>5.4 Flower: attitude</b> <b>(20)</b>		
upwards	Samantha	1[ ]
slightly outwards	PKMP05	2[ ]
strongly outwards	Blue Eyed Blonde	3[ ]
slightly downwards	Pink Octopus	4[ ]
strongly downwards	Sarastro	5[ ]
<b>5.5 Flower: type</b> <b>(21)</b>		
tubular	Sarastro	1[ ]
campanulate	PKMH01	2[ ]
rotate	Samantha	3[ ]
stellate (with strap-shaped lobes)	Pink Octopus	4[ ]
<b>5.6 Corolla: number of whorls</b> <b>(25)</b>		
very few	PKMH01	1[ ]
few	Havidb701	2[ ]
medium	White Ball	3[ ]
many	La Bello	4[ ]
<b>5.7 (i) Corolla: main color of outer side (excluding spots)</b> <b>(28)</b>		
RHS Colour Chart (indicate reference number)		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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Characteristics	Example Varieties	Note
<b>5.7 (ii) Corolla: main color of outer side (excluding spots) (28)</b>		
white	La Bello	1[ ]
pink	Elizabeth	2[ ]
red purple		3[ ]
purple	Sarastro	4[ ]
blue	Blue Rivulet	5[ ]
<b>5.8 (i) Corolla: secondary color of outer side (excluding spots) (29)</b>		
RHS Colour Chart (indicate reference number)		
<b>5.8 (ii) Corolla: secondary color of outer side (excluding spots) (29)</b>		
white	Elizabeth	1[ ]
pink		2[ ]
red purple		3[ ]
purple		4[ ]
blue	La Bello	5[ ]
<b>5.8 (i) Corolla: main color of inner side (excluding spots) (34)</b>		
RHS Colour Chart (indicate reference number)		
<b>5.8 (ii) Corolla: main color of inner side (excluding spots) (34)</b>		
white	Pink Octopus	1[ ]
pink	Elizabeth	2[ ]
red purple		3[ ]
purple	Sarastro	4[ ]
blue	Samantha	5[ ]
<b>5.9 (i) Corolla: secondary color of inner side (excluding spots) (35)</b>		
RHS Colour Chart (indicate reference number)		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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Characteristics	Example Varieties	Note
<b>5.9 (ii) Corolla: secondary color of inner side (excluding spots)</b> <b>(35)</b>		
white	Elizabeth	1[ ]
pink	Caroline	2[ ]
red purple		3[ ]
purple		4[ ]
blue	La Bello	5[ ]
<b>5.10 Corolla: spots on inner side</b> <b>(37)</b>		
absent	La Bello	1[ ]
present	Pink Octopus	9[ ]

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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Flower: attitude</i>	<i>upwards</i>	<i>slightly outwards</i>

Comments:

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

Main use of the variety

- |                  |     |
|------------------|-----|
| (a) pot plant    | [ ] |
| (b) garden plant | [ ] |
| (c) cut flower   | [ ] |
| (d) other        | [ ] |
- (please provide details)

.....

A representative color image of the variety should accompany the Technical Questionnaire.

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.



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

[End of document]