

**TWO/35/13****ORIGINAL:** English**DATE:** November 7, 2002

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**TECHNICAL WORKING PARTY  
FOR  
ORNAMENTAL PLANTS AND FOREST TREES**

**Thirty-Fifth Session  
Quito, November 18 to 22, 2002**

WORKING PAPER ON DRAFT TREATY GUIDELINES FOR CALIBRATED BRACHIOLETS

*Document prepared by experts from Germany*





Calibr(proj.1)

ORIGINAL: English

DATE: November 5, 2002

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**CALIBRACHOA\***

*Calibrachoa* Llave & Lex.\*

**GUIDELINES**

**FOR THE CONDUCT OF TESTS**

**FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

Alternative Names: \*

Latin	English	French	German	Spanish
<i>Calibrachoa</i> Llave & Lex.	Calibrachoa			

**ASSOCIATED DOCUMENTS**

These guidelines should be read in conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (hereinafter referred to as 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.]

<b>TABLEOFCONTENTS</b>	<b>PAGE</b>
1. SUBJECTOF THESE GUIDELINES.....	3
2. MATERIALREQUIRED .....	3
3. METHODOFEXAMINATION .....	3
3.1 DurationofTests .....	3
3.2 TestingPlace .....	3
3.3 ConditionsforConductingtheExamination .....	3
3.4 TestDesign .....	4
3.5 NumberofPlants/PartsofPlantstobeExamined .....	4
3.6 AdditionalTests .....	4
4. ASSESSMENTOFDISTINCTNESS,UNIFORMITYANDSTABILITY .....	4
4.1 Distinctness .....	4
4.2 Uniformity .....	4
4.3 Stability .....	5
5. GROUPINGOFVARIETIESANDORGANIZATIONOFTHEGROWINGTRIAL.....	5
6. INTRODUCTIONTOTHE TABLEOFCHARACTERISTICS .....	5
6.1 CategoriesofCharacteristics .....	5
6.1.1 StandardTestGuidelinesCharacteristics .....	5
6.1.2 AsteriskedCharacteristics .....	5
6.2 StatesofExpressionandCorrespondingNotes .....	6
6.3 TypesofExpression .....	6
6.4 ExampleVarieties .....	6
6.5 Legend .....	6
7. TABLEOFCHARACTERISTICS .....	7
8. EXPLANATIONSONTHE TABLEOFCHARACTERISTICS.....	12
9. LITERATURE.....	13
10. TECHNICALQUESTIONNAIRE.....	14

## 1. Subject of these Guidelines

1.1 These Test Guidelines apply to all varieties of the genus *Calibrachoa* Llave & Lex. of the family Solanaceae.

## 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 *Duration of Tests*

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

### 3.2 *Testing Place*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the variety may be tested at an additional place.

### 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. In particular, unless otherwise stated, all observations should be made 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 D6500 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 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.

3.4.2 Each test should be designed to result in a total of at least 20 plants.

### 3.5 *Number of Plants/Parts of Plants to be Examined*

Unless otherwise indicated, all observations determined by measuring or counting should be made on 20 plants or part stake n from each of 20 plants.

### 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 minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any difference in a characteristic is sufficiently consistent.

#### 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 The acceptable number of off-type tolerated in a sample size of 20 plants is 1 on the basis of a population standard of 1% and an acceptance probability of 95%.

### 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 seed or 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 is 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 others 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 trials so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Leaf blade: variegation (characteristic 9)
- (b) Flower: type (characteristic 15)
- (c) Flower: number of colors of upper side (flower tube excluded) (characteristic 18)
- (d) Flower: main color of upper side (flower tube excluded) (characteristic 19)

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 harmonized 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 Section 6.1.2
- (QL) Qualitative characteristic –see Section 6.3
- (QN) Quantitative characteristic –see Section 6.3
- (PQ) Pseudo-Qualitative characteristic –see Section 6.3
- (+) See Explanations on the Table of Characteristics in Chapter 8.

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

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1.</b>		<b>Plant: growth habit</b>		<b>Pflanze: Wuchsform</b>			
		upright		aufrecht			1
		creeping		kriechend			2
<b>2. (* )</b>		<b>Plant: height</b>		<b>Pflanze: Höhe</b>			
		short		niedrig			3
		medium		mittel			5
		tall		hoch			7
<b>3. (* )</b>		<b>Shoot: length</b>		<b>Trieb: Länge</b>			
		short		kurz			3
		medium		mittel			5
		long		lang			7
<b>4.</b>		<b>Petiole: presence</b>		<b>Blattstiel: Vorhandensein</b>			
		absent		fehlend			1
		present		vorhanden			9
<b>5.</b>		<b>Petiole: length</b>		<b>Blattstiel: Länge</b>			
		short		kurz			3
		medium		mittel			5
		long		lang			7
<b>6. (* )</b>		<b>Leafblade: length</b>		<b>Blattspreite: Länge</b>			
		short		kurz			3
		medium		mittel			5
		long		lang			7

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>7.</b> (*)		<b>Leafblade:width</b>		<b>Blattspreite:Breite</b>			
		narrow		schmal			3
		medium		mittel			5
		broad		breit			7
<b>8.</b>		<b>Leafblade:shape of apex</b>		<b>Blattspreite:Form der Spitze</b>			
		narrow acute		schmalspitz			1
		broad acute		breitspitz			2
		obtuse		stumpf			3
<b>9.</b> (*)		<b>Leafblade: variegation</b>		<b>Blattspreite: Panaschierung</b>			
		absent		fehlend			1
		present		vorhanden			9
<b>10.</b> (*)		<b><u>Varieties without variegation only:</u> Leafblade:green color of upper side</b>		<b><u>Nur Sorten ohne Panaschierung:</u> Blattspreite: Grünfärbung der Oberseite</b>			
		light		hell			3
		medium		mittel			5
		dark		dunkel			7
<b>11.</b>		<b>Pedicle:length</b>		<b>Blütenstiel:Länge</b>			
		short		kurz			3
		medium		mittel			5
		long		lang			7
<b>12.</b> (*)		<b>Sepal:length</b>		<b>Kelchblatt:Länge</b>			
		short		kurz			3
		medium		mittel			5
		long		lang			7

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>13.</b> (*)		<b>Sepal:width (broadest part which is not fused)</b>		<b>Kelchblatt:Breite (breiteste, nicht verwachsene Stelle)</b>			
		narrow		schmal			3
		medium		mittel			5
		broad		breit			7
<b>14.</b>		<b>Sepal:anthocyanin coloration</b>		<b>Kelchblatt: Anthocyanfärbung</b>			
		absent		fehlend			1
		present		vorhanden			9
<b>15.</b> (*)		<b>Flower:type</b>		<b>Blüte:Typ</b>			
		single		einfach			1
		double		gefüllt			2
<b>16.</b> (*)		<b>Flower:diameter</b>		<b>Blüte:Durchmesser</b>			
(+)		small		klein			3
		medium		mittel			5
		large		groß			7
<b>17.</b>		<b>Flower:depth of incisions between corolla lobes</b>		<b>Blüte:Tiefeder Einschnitte zwischen den Kronlappen</b>			
		shallow		flach			3
		medium		mittel			5
		deep		tief			7
<b>18.</b> (*)		<b>Flower:number of color of upper side (flower tube excluded)</b>		<b>Blüte:Anzahl Farbender Oberseite (ohne Blütenröhre)</b>			
		one		eine			1
		two		zwei			2
		more than two		mehrer als zwei			3

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (* )		<b>Flower: main color of upper side (as for 18.)</b>		<b>Blüte: Hauptfarbe der Oberseite (wie bei 18.)</b>			
		RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			
20. (* )		<b><u>Formulticolored varieties only:</u></b> <b>Flower: secondary color of upper side (as for 18.)</b>		<b><u>Nur für mehrfarbige Sorten:</u></b> <b>Blüte: Sekundär-farbe der Oberseite (wie bei 18.)</b>			
		RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			
21. (* )		<b>Flower: conspicuousness of vein on upper side (as for 18.)</b>		<b>Blüte: Stärke der Aderung der Oberseite (wie bei 18.)</b>			
		absent or very weak		fehlend oder sehr gering			1
		weak		gering			3
		medium		mittel			5
		strong		stark			7
		very strong		sehr stark			9
22.		<b>Flower: main color of lower side (as for 18.)</b>		<b>Blüte: Hauptfarbe der Unterseite (wie bei 18.)</b>			
		RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			
23. (+)		<b>Corolla lobe: shape of apex</b>		<b>Kronlappen: Form der Spitze</b>			
		cuspidate		mit aufgesetzter Spitze			1
		rounded		abgerundet			2
		truncate		abgeflacht			3
		retuse		eingedrückt			4

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>24.</b>		<b>Flowertube: length</b>		<b>Blütenröhre: Länge</b>			
(+)		short		<b>kurz</b>			3
		medium		<b>mittel</b>			5
		long		<b>lang</b>			7
<b>25.</b>		<b>Flowertube: main color of inner side</b>		<b>Blütenröhre: Hauptfarbe der Innenseite</b>			
(*)		RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			
<b>26.</b>		<b>Flowertube: conspicuousness of vein on inner side</b>		<b>Blütenröhre: Stärke der Adern der Innenseite</b>			
		absent or very weak		fehlend oder sehr gering			1
		weak		gering			3
		medium		mittel			5
		strong		stark			7
		very strong		sehr stark			9

8. ExplanationsontheTableofCharacteristics

Ad.16:Flower:diameter



Ad.23:Corollalobe:shapeofapex



1  
cuspidate



2  
rounded

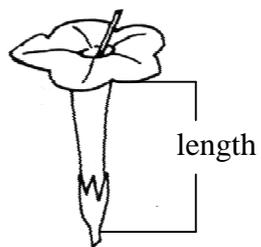


3  
truncate



4  
retuse

Ad.24 :Flowertube:length



9. Literature

Wijsman, H.J.W. and de Jong, J.H. (1985): On the Interrelationships of Certain Species of *Petunia* IV. Hybridization Between *P. linearis* and *P. calycina* and Nomenclatorial Consequences in the *Petunia* Group. Acta Bot. Neerl. 34(3), p.337 - 349.

Wijsman, H.J.W. (1990): On the Interrelationships of Certain Species of *Petunia* VI. New Names for the Species of *Calibrachoa* Formerly Included Into *Petunia* (Solanaceae). Acta Bot. Neerl. 39(19), p.101 -102.

10. Technical Questionnaire

TECHNICALQUESTIONNAIRE	Page{ x }of{y}	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights		
1. SubjectoftheTechnicalQuestionnaire		
1.1 Genus		
1.1 LatinName	<input type="text" value="CalibrachoaLlave&amp;Lex."/>	
1.2 CommonName	<input type="text" value="Calibrachoa"/>	
1.2 Species(pleasecomplete)		
1.2.1 LatinName	<input type="text"/>	
1.2.2 CommonName	<input type="text"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
TelephoneNo.	<input type="text"/>	
FaxNo.	<input type="text"/>	
E-mailaddress	<input type="text"/>	
Breeder(ifdifferentfromapplicant)	<input type="text"/>	

TECHNICALQUESTIONNAIRE	Page{ x }of{y}	ReferenceNumber:
------------------------	----------------	------------------

3. Proposeddenominationandbreeder'sreference

Proposeddenomination   
(ifavailable)

Breeder'sreference

4. Informationonthebreedingschemeandpropagationofthevariety

4.1 BreedingScheme

4.1.1 Varietyresultingfrom:

(a) controlledcross   
(pleasestateparentvarieties)

(b) partiallyunknowncross   
(pleasestateknownparentvariety(i es))

(c) totallyunknowncross

4.1.2 Mutation   
(pleasestateparentvariety)

4.1.3 Discovery   
(pleasestatewhere,whenandhowdeveloped)

4.1.4 Other   
(pleaseprovidedetails)

4.2 MethodofPropagatingtheVariety

(a)cuttings

(b) *invitro* propagation

(c)seed

(d)other(providedetails)

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 Leafblade:variegation</b> <b>(9)</b>  absent  present		1[]  9[]
<b>5.2 Flower:type</b> <b>(15)</b>  single  double		1[]  2[]
<b>5.3 Flower:diameter</b> <b>(16)</b>  verynarrow  narrow  medium  broad  verybroad		1[]  3[]  5[]  7[]  9[]
<b>5.4 Flower:numberofcolorsofupperside</b> <b>(18) (flowertubeexcluded)</b>  one  two  morethant wo		1[]  2[]  3[]
<b>5.5(i) Flower:maincolorofupperside</b> <b>(19) (flowertubeexcluded)</b>  RHSColourChart(indicatorreferencenumber)	.....	

Characteristics	Example Varieties	Note	
<b>5.5(ii) Flower: main color of upper side (19) (flower tube excluded)</b>			
white		1[]	
yellow		2[]	
yelloworange		3[]	
red		5[]	
bluepink		6[]	
bluered		7[]	
purplered		8[]	
purple		9[]	
violet		10[]	
blueviolet		11[]	
other color(indicate)	.....		
<b>5.6 Flower: conspicuousness of vein on upper side (21) (flower tube excluded)</b>			
absent or very weak		1[]	
weak		3[]	
medium		5[]	
strong		7[]	
very strong		9[]	
<b>6. Similar varieties and differences from these varieties</b>			
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>Plant: height</i>	<i>e.g. note 3</i>	<i>note 7</i>
		<i>e.g. short</i>	<i>tall</i>
		<i>e.g. 90cm</i>	<i>130cm</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 Special conditions for the examination of the variety

7.2.1 Are there any special conditions for growing the variety or conducting the examination?

Yes  No

7.2.2 If yes, please give details:

7.3 Other information

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. 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]