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



#### **MANDEVILLA**

**UPOV** Code:

Mandevilla Lindl. Mandevilla sanderi (Hemsl.) Woodson Mandevilla xamablis

#### **GUIDELINES**

#### FOR THE CONDUCT OF TESTS

#### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Netherlands

to be considered by the

Technical Working Party for Ornamental Plants and Forest Trees at its forty-third session, to be held in Cuernavaca, Morelos State, Mexico, from September 20 to 24, 2010

#### Alternative Names:

Botanical name English French German Spanish

Mandevilla Lindl
Mandevilla sanderi
(Hems.) Woodson
Mandevilla
xamabilis

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.

<sup>\*</sup> 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 *Mandevilla Lindl.*, *Mandevilla sanderi* (*Hemsl.*) *Woodson* and *Mandevilla xamabilis* of the family Apocynáceae .

### 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 capable of expressing all relevant characteristics of the variety during the first growing cycle.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

#### 25 young 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. <u>Method of Examination</u>

#### 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.

#### 3.4 Test Design

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

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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, all observations for the purposes of distinctness should be made on 10 plants or parts taken from each of 10 plants, 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"):

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

#### 4.3 Stability

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

### 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) Stem: length of internodes (characteristic 1)
  - (b) Leaf: bulging between the veins (characteristic 17)
  - (c) Limp: main color of upper side (characteristic 43) with the following groups:

Gr. 1: white

Gr. 2: pink

Gr. 3: red

Gr. 4: purple red

- 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. <u>Introduction to the Table of Characteristics</u>
- 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.

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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.

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- 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 see Chapter 6.3

## MG, MS, VG, VS – see Chapter 4.1.5

- (a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

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#### 7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.		Plant: density					
QN	(a)	open					3
		medium				Scarlet Pimpernel	5
		dense				Red Fantasy	7
2.		Stem: length of internode	Plante: hauteur	Pflanze: Hohe	Planta: altura		
QN	(a)	short	courte	niedrig	baja		3
		medium	moyenne	mittel	media		5
		tall	haute	hoch	alta		7
3.		Young stem: color	Tige:	Stiel: farbe	Tallo:		
PQ	(a)	light green		hell grün			3
		medium green		mittel grün			5
		dark green		dunkel grün			7
4.		Young stem: anthocyanin coloration	Tige: pigmentation anthocyanique	Stiel: Anthocyan- farbung			
QN	(a)	absent or very weak	faible	gering			1
		medium	moyenne	mittel			5
		strong	forte	stark			7
5.		Stem: pubescence	Tige:	Stiel:			
QL	(a)	absent					1
		present					9

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten	Note/ Nota
6.		Leaf: arrangements				Variedades ejemplo	
QL	(a)	opposite					1
	(b)	decussate					2
7.		Petiole: length					
QN	(a)	short	courte	kurz	corta		3
	<b>(b)</b>	medium	moyenne	mittel	media		5
		long	longue	lang	larga		7
8.		Petiole: color					
QN	(a)	light green					3
	<b>(b)</b>	medium green					5
		dark green					7
9.		Petiole: anthocyanin coloration	1				
QN	(a)	absent or very weak	faible	gering			
	<b>(b)</b>	medium	moyenne	mittel			
		strong	forte	stark			
10.		Petiole: pubescence	Tige:	Stiel:			
QL	(a)	absent					1
	<b>(b)</b>	present					9
11.		Leaf blade: length					
QN	(a)	short	courte	kurz	corta		3
	<b>(b)</b>	medium	moyenne	mittel	media		5
		long	longue	lang	larga		7

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.		Leaf blade: width					
QN	(a)	narrow					3
	<b>(b)</b>	medium					5
		broad					7
13.		Leaf blade: ratio length/ width	Feuille: rapport longueur/largeur	Blatt: Verhältnis Länge/Breite	Hoja: relación longitud/anchura		
QN	(a)	moderately elongated					3
	<b>(b)</b>	medium	moyen	mittel	media		5
		moderately compressed					7
14.		Leaf blade: position of broadest part	Feuille: position de la partie la plus large	Blatt: Position der breitesten Stelle	Hoja: posición de la parte más ancha		
QL	(a)	towards apex					1
	<b>(b)</b>	at the middle					2
		towards base					3
15.		Leaf blade: shape of	,				
(+)		apex					
QN	(a)	cuspidate					1
	<b>(b)</b>	acute					2
16.		Leaf blade: color of upperside					
QN	(a)	light green					3
	<b>(b)</b>	medium green					5
		dark green					7

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.		Leaf blade: glossiness of upper side					
QN	(a)	weak					3
	<b>(b)</b>	medium					5
		strong					7
18.		Leaf blade: bulging between the veins					
QN	(a)	absent or very weak					1
	<b>(b)</b>	weak					3
		medium					5
		strong					7
19.		Leaf blade: pubescence of upper side					
QL	(a)	absent	absente	fehlend	ausente		1
	(b)	present	présente	vorhanden	presente		9
20.		Leaf blade: color of lower side	Feuille:	Blatt:	Ноја:		
QN	(a)	light green					3
	<b>(b)</b>	medium green					5
		dark green					7
21.		Leaf blade: pubescence of lower side					
QL	(a)	absent					1
	<b>(b)</b>	present					9

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22.		Leaf blade: shape in longitudinal section					
QN	(a)	incurving					3
	<b>(b)</b>	straight					5
		recurving					7
23.		Leaf blade: undulation of margin					
QN	(a)	absent or very weak	nulle ou faible	fehlend oder gering	ausente o débil		1
	<b>(b)</b>	weak					3
		medium	moyenne	mittel	media		5
		strong	forte	stark	fuerte		7
24.		Pedicel: length					
QN	(a)	short	courte	kurz	corta		3
	<b>(d)</b>	medium	moyenne	mittel	media		5
		long	longue	lang	larga		7
25.		Pedicel: color					
QN	(a)	light green					3
	<b>(d)</b>	medium green					5
		dark green					7
26.		Pedicel: anthocyanin coloration					
QN	(a)	absent or very weak	nulle ou faible	fehlend oder gering	ausente o débil		1
	( <b>d</b> )	medium	moyenne	mittel	media		2
		strong	forte	stark	fuerte		3

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27.		Pedicel: pubescence					
QL	(a)	absent					1
	(d)	present					9
28.		Flower bud: shape					
QN	(a)	trullate					1
	(c)	obtrullate					2
29.		Calyx: length	Calice: longueur	Kelch: Länge			
QN	(a)	short	courte	kurz	corta		3
	( <b>d</b> )	medium	moyenne	mittel	media		5
		long	longue	lang	larga		7
30.		Calyx: color basal half					
QN	(a)	light green					1
	<b>(d)</b>	medium green					2
		dark green					3
		light red					4
		medium red					5
		dark red					6
31.		Calyx: color distal half					
QN	(a)	light green					1
	<b>(d)</b>	medium green					2
		dark green					3
		light red					4
		medium red					5
		dark red					6

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
32.		Corolla: diameter	Fleur: diamètre	Blüte: Durchmesser	Floral:		
QN	(a)	small	petit	klein	pequeña		3
	( <b>d</b> )	medium	moyen	mittel	media		5
		large	élevé	groß	grande		7
<b>33.</b> (+)		Corolla tube: length	Corolle tube: longueur	Krone Röhre: Länge			
QN	(a)	short	courte	kurz	corta		3
	( <b>d</b> )	medium	moyenne	mittel	media		5
		long	longue	lang	larga		7
34.		Corolla: shape					
PQ	(a)	funnelform					1
		campanulate					2
		salverform					3
35.		Corolla tube: color of outer side	•				
(+)		of outer side					
PQ	(a)		couleurs (indiquer le	RHS-Farbkarte (Nummer angeben)			
	(d)	number)	numéro de référence)		de referencia)		
<b>36.</b> (+)		Corolla throat: length					
QN	(a)	short	courte	kurz	corta		3
	( <b>d</b> )	medium	moyenne	mittel	media		5
		long	longue	lang	larga		7
<b>37.</b> (+)		Corolla throat: width of distal par	t				
QN	(a)	small	petit	klein	pequeña		3
	( <b>d</b> )	medium	moyen	mittel	media		5
		large	élevé	groß	grande		7

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>38.</b> (+)		Corolla throat: color of basal half of outer side					
PQ	(a) (d)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
<b>39.</b> (+)		Corolla throat: color of distal half of outer side					
PQ	(a) (d)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
40.		Corolla throat: color of basal half of inner side					
PQ	(a) (d)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
41.		Corolla throat: color of distal half of inner side					
PQ	(a) (d)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
<b>42.</b> (+)		Limp: shape					
QL	(a)	symmetric					1
	( <b>d</b> )	asymmetric					2
43.		Limp: shape of apex					
QN	(a)	acuminate					1
	( <b>d</b> )	acuminate to acute					2
		acute					3

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
44.		Limp: number of colors					
PQ	(a)	one					1
	( <b>d</b> )	two or more					2
45.		Limp: main color of upper side					
PQ	(a) (d)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
46.		Limp: secondary color of upper side					
PQ	(a) (d)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
47.		Limp: recurving if margin					
QN	(a)	absent or very weak					1
		weak					3
		medium				Red Fantasy	5
		strong				Sunmandecrim	7
		very strong					9
48.		Limp: undulation of margin	Corolle lobe: forme	Krone Zipfel: Form			
PQ	(a)	weak					1
	<b>(d)</b>	medium					2
		strong					3
49.		Limp: shape in longitudinal section of distal part					
QN	(a)	concave					1
	( <b>d</b> )	straight					2
		convex					3

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
50.		Filament: color					
PQ	(a)	cream white					1
	( <b>d</b> )	light yellow					2
		yellow					3
		light green					4
		green					5
51.		Anther: color					
PQ	(a)	white	blanche	weiss			1
	( <b>d</b> )	light yellow	jaune clair	hellgelb			2
		light green	vert clair	hellgrün			3
52.		Ovary: color	Anthère: couleur	Anthere: Farbe			
PQ	(a)	white	blanche	weiss			1
	( <b>d</b> )	light yellow	jaune clair	hellgelb			2
		light green	vert clair	hellgrün			3

# 8. Explanations on the Table of Characteristics

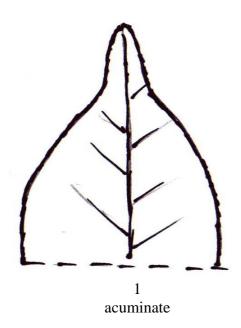
## 8.1 Explanations covering several characteristics

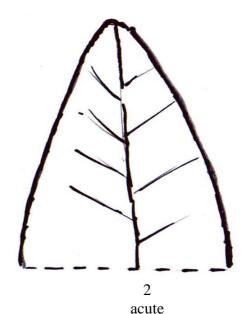
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

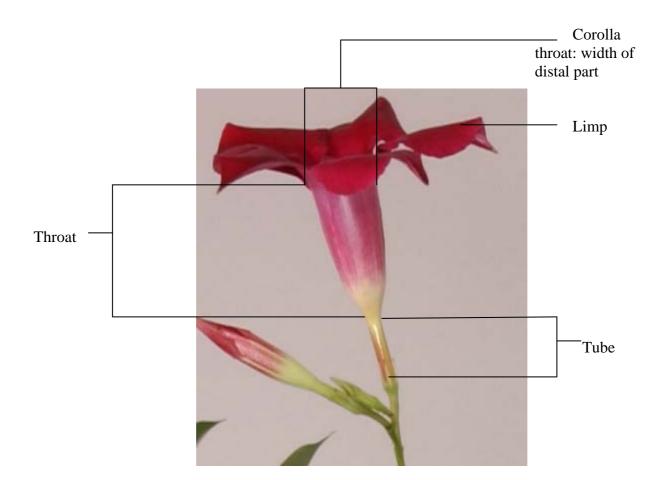
- (a) Observations on plant and stem should be made when 50% of flowers have opened on the third raceme.
- (b) Observations on leaves should be made on fully expanded leaves.
- (c) Observations on bud should be made just before opening of the bud
- (d) Observations on flowers and pedicel should be made on fully open flowers.

#### 8.2 Explanations for individual characteristics

# Ad. 15: Leaf blade: shape of apex







# 9. <u>Literature</u>

Chittenden, Fred J.: Dictionary of Gardening. Oxford, GB.

Graf, A.B.: Hortica. US

# 10. <u>Technical Questionnaire</u>

TECHNICAL	QUESTIONNAIRE	Page {x} of {y}	Reference Number:		
			Application date: (not to be filled in by the applicant)		
to b	TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights				
1. Subject of	Subject of the Technical Questionnaire				
1.1 Bo	tuilleur manne	ndevilla Lindl. ndevilla sanderi (Hem	asl.) Woodson		
1.2 Co	ommon name Ma	ndevilla			
2. Applicar	nt				
Name					
Address					
Telephor	ne No.				
Fax No.					
E-mail a	ddress				
Breeder	(if different from appli	cant)			
3. Proposed	d denomination and bre	eeder's reference			
Proposed (if availa	d denomination able)				
Breeder'	s reference				

TECH	NIC.	AL QU	JESTIONNAIRE	Page {x} of {y}	Reference Number:
#4. In	Information on the breeding scheme and propagation of the variety				
4	.1	Breedii	ng scheme		
	Variety resulting from:				
	4.1.1 Crossing				
			(a) controlled control	ross parent varieties)	
	(.	•••••	female parent	) x (	male parent
	(b) partially known cross (please state known parent variety(ies))  (			ies))	
				) x (	male parent
			(c) unknown cr	oss	
		4.1.2	Mutation (please state parer	nt variety)	
	4.1.3 Discovery and developm (please state where and			and how developed)	
		4.1.4	Other		
	211111111111111111111111111111111111111		(please provide de	etails)	

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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TECHNIC	CAL (	QUESTIONNAIRE	Page {x} of {y}	Reference Number:		
4.2						
	4.2.1 Vegetative propagation					
		(a) cuttings		[ ]		
		(b) in vitro propag	gation	[ ]		
	(c) other (state me		ethod)	[ ]		
L	4.2.2 Other [		[ ]			
hiiiiiiii	(please provide details)					

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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 (2)	Stem: length of internode		
	short		1[]
	medium		2[]
	tall		3[]
5.2 (18)	Leaf blade: bulging between the veins		
	absent		1[]
	present		9[]
5.3 (45)	Limp: main color of upper side		
	white		1[]
	pink		2[]
	red		3[]
	purple red		4[]

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TECHNICAL QUESTI	ONNAIRE	Page {x} o	of {y}	Reference Nu	ımber:	
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	Characteri which your	` ′		the expression aracteristic(s)	Describe the expression of the	
your candidate variety	variety diffe			ne similar	characteristic(s) for	
	similar va	riety(ies)	vari	iety(ies)	your candidate variety	
Example	Plant:	height	S	short	tall	
Comments:						

TEC	TECHNICAL QUESTIONNAIRE		f {y}	Reference Number:		
<sup>#</sup> 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 condition	ns for growin	ng the vario	ety or conducting the examination?		
	Yes [ ]	No [ ]				
	(If yes, please provide details)					
7.3	Other information					
	7.3.1 Main use  (a) garden plan (b) pot plant (c) cut-flower (d) other (please provide d)  7.3.2 A representative Questionnaire.	etails)	of the var	[ ] [ ] [ ] [ ]  riety should accompany the Technical		
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 b	een obtained	1?			
	Yes [ ]	No	[ ]			
	If the answer to (b) is yes, please attach a copy of the authorization.					

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:						
9. Information on plant material t	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. vir	us, bacteria, phytoplasi	ma) Yes [ ] No [ ]						
(b) Chemical treatment (e.g.	growth retardant, pesti	cide) Yes [ ] No [ ]						
(c) Tissue culture		Yes [ ] No [ ]						
(d) Other factors		Yes [ ] No [ ]						
Please provide details for wher	e 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	Applicant's name							
Signature Date								

[End of document]