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

**DRAFT****OLEANDER**

UPOV Code: NERIU\_OLE

*Nerium oleander* L.**GUIDELINES****FOR THE CONDUCT OF TESTS****FOR DISTINCTNESS, UNIFORMITY AND STABILITY***prepared by experts from France**to be considered by the Enlarged Editorial Committee at its meeting  
to be held in Geneva, Switzerland, on January 8, 2009*

Alternative Names: \*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Nerium oleander</i> L., <i>Nerium indicum</i> Mill.	Oleander, Rose Bay, Rose-Laurel	Laurier rose, Oléandre	Oleander	Adelfa, Balandre, Laurel Rosa, Pascua

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 *Nerium oleander* L. of the family *Apocynaceae*.

## 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 two-years-old plants, grown from cuttings, which are unpinched and not grafted.

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

6 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 two independent growing cycles.

### 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*

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 6 plants.

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

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

Unless otherwise indicated, all observations should be made on 6 plants or parts taken from each of 6 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 differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

#### 4.1.3 Clear Differences

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

### 4.2 *Uniformity*

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

4.2.2 For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 6 plants, one off-type is allowed.

### 4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated

that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

## 5. Grouping of Varieties and Organization of the Growing Trial

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

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

5.3 The following have been agreed as useful grouping characteristics:

- (a) Plant: growth type (characteristic 1)
- (b) Plant: growth habit (characteristic 2)
- (c) Flower: color (characteristic 19)
- (d) Flower: number of whorls of petals (characteristic 20)

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

## 6. Introduction to the Table of Characteristics

### 6.1 *Categories of Characteristics*

#### 6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

#### 6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

## 6.2 *States of Expression and Corresponding Notes*

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

## 6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

## 6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

## 6.5 *Legend*

(\*) Asterisked characteristic – see Chapter 6.1.2

QL: Qualitative characteristic – see Chapter 6.3

QN: Quantitative characteristic – see Chapter 6.3

PQ: Pseudo-qualitative characteristic – see Chapter 6.3

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

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

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1. (* )</b>	<b>Plant: growth type</b>	<b>Plante: Type de croissance</b>	<b>Pflanze: Wuchstyp</b>	<b>Planta: tipo de crecimiento</b>		
<b>QL</b>	dwarf	nain	Zwergform	enana	Petite Pink, Petite Red	1
	normal	normal	normal	normal	Alassio, Altini	2
<b>2. (* ) (+)</b>	<b>Plant: growth habit</b>	<b>Plante : port</b>	<b>Pflanze: Wuchsform</b>	<b>Planta: porte</b>		
<b>QN</b>	upright	érigé	aufrecht	erecta	Belle Hélène	1
	semi-upright	demi dressé	halbaufrecht	semierecta	Fiesta Pink	2
	spreading	étalé	breitwüchsig	esparcida	Altini	3
<b>3.</b>	<b><u>Only varieties with plant growth type: normal: Plant: height</u></b>	<b><u>Seulement pour les variétés à croissance : normale : Plante : hauteur</u></b>	<b><u>Nur Sorten mit Wuchstyp: normal: Pflanze: Höhe</u></b>	<b><u>Sólo para variedades con un tipo de crecimiento normal: Planta: altura</u></b>		
<b>QN</b>	short	courte	niedrig	corta	Papa Gambetta	3
	medium	moyenne	mittel	mediana	Belle Hélène	5
	tall	haute	hoch	alta	La Fontaine	7
<b>4.</b>	<b>Current year's shoot: color of distal part</b>	<b>Rameau de l'année: couleur de la partie supérieure</b>	<b>Jahrestrieb: Farbe des distalen Teils</b>	<b>Vástago del año: color de la parte superior</b>		
<b>PQ</b>	light green	vert clair	hellgrün	verde claro	Belle Hélène	1
	medium green	vert moyen	mittelgrün	verde medio	Altini	2
	dark green	vert foncé	dunkelgrün	verde oscuro	Papa Gambetta	3
	reddish brown	brun rougeâtre	rötlichbraun	marrón rojizo	Virginie	4
	brown	brun	braun	marrón	Fiesta Rodi	5
<b>5. (* )</b>	<b>Leaf blade: length</b>	<b>Feuille : longueur du limbe</b>	<b>Blattspreite: Länge</b>	<b>Limbo: longitud</b>		
<b>QN</b>	short	courte	kurz	corto	Petite Pink	3
	medium	moyenne	mittel	mediano	Hardy Red	5
	long	longue	lang	largo	Alassio	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>6. (* )</b>	<b>Leaf blade: width</b>	<b>Limbe: largeur</b>	<b>Blattspreite: Breite</b>	<b>Limbo: anchura</b>		
<b>QN</b>	narrow	étroite	schmal	estrecho	Papa Gambetta	3
	medium	moyenne	mittel	mediano	Emile Sahut	5
	broad	large	breit	amplio	Emilie	7
<b>7. (* )</b>	<b>Leaf blade: variegation</b>	<b>Limbe : panachure</b>	<b>Blattspreite: Panaschierung</b>	<b>Limbo: variegación</b>		
<b>QL</b>	absent	absente	fehlend	ausente	Marie Gambetta	1
	present	présente	vorhanden	presente	Splendens Folei's Variegata	9
<b>8.</b>	<b>Leaf blade: color of upper side (excluding variegation)</b>	<b>Limbe : couleur de la partie supérieure (en excluant la panachure)</b>	<b>Blattspreite: Farbe der Oberseite (ohne Panaschierung)</b>	<b>Limbo: color de la parte superior (excluida la variegación)</b>		
<b>PQ</b>	light green	vert clair	hellgrün	verde claro	Petite white	1
	medium green	vert moyen	mittelgrün	verde medio	Alassio	2
	dark green	vert foncé	dunkelgrün	verde oscuro	Papa Gambetta	3
	bluish-green	vert bleuté	bläulichgrün	verde azulado	JR 95-1	4
<b>9. (* ) (+)</b>	<b>Leaf blade: profile in cross section</b>	<b>Limbe : section transversale</b>	<b>Blattspreite: Profil im Querschnitt</b>	<b>Limbo: sección transversal</b>		
<b>QL</b>	flat	plate	eben	plana	Nana Rosso, Pink Beauty	1
	folded	pliée	gefaltet	plegada	Petite Red	2
<b>10. (+)</b>	<b>Leaf blade: incurving of margins</b>	<b>Limbe: enroulement des bords</b>	<b>Blattspreite: Biegung der Ränder</b>	<b>Limbo: bordes curvados hacia arriba</b>		
<b>QN</b>	absent or slightly incurved	absent ou faiblement incurvé	fehlend oder leicht aufgebogen	ausentes o ligeramente curvados	Italia	1
	moderately incurved	moyennement incurvé	mäßig aufgebogen	moderadamente curvados	Altini, Solfège	2
	strongly incurved	fortement incurvé	stark aufgebogen	muy curvados	Almodovar, Jannoch	3



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>11.</b> (+)	<b>Leaf blade: glossiness of upper side</b>	<b>Limbe : brillance de la face supérieure</b>	<b>Blattspreite: Glanz der Oberseite</b>	<b>Limbo: brillo del haz</b>		
<b>QL</b>	absent	absente	fehlend	ausente	Petite Red	1
	present	présente	vorhanden	presente	Papa Gambetta	9
<b>12.</b>	<b>Leaf blade: pubescence of upper side</b>	<b>Limbe: pubescence de la face supérieure</b>	<b>Blattspreite: Behaarung der Oberseite</b>	<b>Limbo: pubescencia del haz</b>		
<b>QL</b>	absent	absente	fehlend	ausente	Papa Gambetta, Petite Red	1
	present	présente	vorhanden	presente	JR 95-1	9
<b>13.</b> (* (+)	<b>Inflorescence: curvature of upper part</b>	<b>Inflorescence : courbure de la partie supérieure</b>	<b>Blütenstand: Wölbung des oberen Teils</b>	<b>Inflorescencia: curvatura de la parte superior</b>		
<b>QN</b>	absent or weak	absente ou faible	fehlend oder gering	ausente o débil	Petite White	1
	medium	moyenne	mittel	mediana	Petite Red	2
	strong	forte	stark	fuerte	Fauryb 04	3
<b>14.</b>	<b>Inflorescence: position in relation to foliage</b>	<b>Inflorescence : position par rapport au feuillage</b>	<b>Blütenstand: Position im Verhältnis zum Laub</b>	<b>Inflorescencia: posición en relación con las hojas</b>		
<b>QN</b>	above	au-dessus	oberhalb	por encima	East End Pink	1
	same level	au même niveau	auf gleicher Höhe	al mismo nivel	Petite Red	2
	below	au-dessous	unterhalb	por debajo	Alassio	3
<b>15.</b> (+)	<b>Plant: number of flowers</b>	<b>Plante : Nombre de fleurs</b>	<b>Pflanze: Anzahl Blüten</b>	<b>Planta: cantidad de flores</b>		
<b>QN</b>	few	faible	klein	pocas	Neridem	3
	medium	moyen	mittel	media	Soleil Levant	5
	many	grand	groß	muchas	Altini	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>16.</b> (*) (+)	<b>Flower bud: shape</b>	<b>Bouton floral : forme</b>	<b>Blütenknospe: Form</b>	<b>Yema floral: forma</b>		
<b>PQ</b>	ovate	ovale	eiförmig	oval	Hawaiï	1
	narrow elliptic	elliptique étroit	schmal elliptisch	elíptica estrecha	Mont Rose	2
	broad elliptic	elliptique large	breit elliptisch	elíptica ancha	Splendens Giganteum	3
	rhombic	rhomboïque	rhombisch	romboide	JR 95-1	4
<b>17.</b>	<b>Flower bud: color (just before opening)</b>	<b>Bouton floral : couleur (juste avant l'ouverture)</b>	<b>Blütenknospe: Farbe (kurz vor dem Öffnen)</b>	<b>Yema floral: color (justo antes de abrirse)</b>		
<b>PQ</b>	white or nearly white	blanc ou presque blanc	weiß oder nahezu weiß	blanco o casi blanco	Petite white	1
	yellow	jaune	gelb	amarillo	Sœur Agnès	2
	light pink	rose clair	hellrosa	rosa claro	Alsace	3
	medium pink	rose moyen	mittelrosa	rosa medio	Nana Rosso	4
	dark pink	rose foncé	dunkelrosa	rosa oscuro	Louis Pouget	5
	pink red	rose rouge	rosarot	rosa rojizo	Hardy Pink	6
	red	rouge	rot	rojo	Italia	7
	light violet	violette claire	hellviolett	violeta claro	Barcelona	8
<b>18.</b>	<b>Flower bud: swelling just before opening</b>	<b>Bouton floral : gonflement juste avant l'ouverture</b>	<b>Blütenknospe: Verdickung kurz vor dem Öffnen</b>	<b>Yema floral: hinchazón justo antes de abrirse</b>		
<b>QL</b>	absent	absent	fehlend	ausente	Alsace	1
	present	présent	vorhanden	presente	Angiolo Pucci	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>19.</b> (*)	<b>Flower: color</b>	<b>Fleur : couleur</b>	<b>Blüte: Farbe</b>	<b>Flor: color</b>		
<b>PQ</b>	whitish	blanchâtre	weißlich	blancuzco	Alsace, Mont Blanc, Petite white	1
	yellow	jaune	gelb	amarillo	Isle of Capri, Luteum Plenum	2
	light orange	orange clair	hellorange	naranja claro	Angiolo Pucci	3
	light orange pink	orange clair rose	hell orangerosa	rosa anaranjado claro	Hawaiï, Mrs Roeding, Tito Poggi	4
	light pink	rose clair	hellrosa	rosa claro	East End Pink, Magaly	5
	medium to dark pink	rose moyen à foncé	mittel- bis dunkelrosa	rosa medio a oscuro	Alassio, Emilie, Roseum Plenum	6
	pink red	rose rouge	rosarot	rojo rosado	JR 95-1, Commandant Barthélémy	7
	red	rouge	rot	rojo	Altini, Petite Red, Tamouré	8
	light violet	violette claire	hellviolett	violeta claro	Barcelona	9
<b>20.</b> (*) (+)	<b>Flower: number of whorls of petals</b>	<b>Fleur : nombre de rang de pétales</b>	<b>Blüte: Anzahl Blütenblätter- kreise</b>	<b>Flor: número de verticilos de pétalos</b>		
<b>QL</b>	one	un	einer	uno	Emilie	1
	more than one	plusieurs	mehr als einer	más de uno	Mrs Roeding, Professeur Granel	2
<b>21.</b> (*)	<b>Flower: diameter</b>	<b>Fleur : diamètre</b>	<b>Blüte: Durchmesser</b>	<b>Flor: diámetro</b>		
<b>QN</b>	small	petit	klein	pequeño	Petite Red	3
	medium	moyen	mittel	medio	Mrs Roeding	5
	large	grand	groß	grande	Roseum Plenum	7
<b>22.</b>	<b>Flower: fragrance</b>	<b>Fleur : parfum</b>	<b>Blüte: Duft</b>	<b>Flor: fragancia</b>		
<b>QN</b>	absent or weak	absent ou faible	fehlend oder schwach	ausente o débil	Jordan Valley	1
	medium	moyen	mittel	media	Alassio	2
	strong	fort	stark	fuerte	Louis Pouget	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>23.</b> (* (+)	<b>Petal: attitude of upper part</b>	<b>Pétale : profil de la partie supérieure</b>	<b>Blütenblatt: Haltung des oberen Teils</b>	<b>Pétalo: perfil de la parte superior</b>		
<b>QN</b>	erect	dressé	aufrecht	erecto	Petite Pink	1
	semi erect	demi dressé	halbaufrecht	semierecto	Isle of Capri	2
	horizontal	horizontal	waagrecht	horizontal	Hawaiï	3
<b>24.</b>	<b>Petal: size</b>	<b>Pétale : taille</b>	<b>Blütenblatt: Größe</b>	<b>Pétalo: tamaño</b>		
<b>QN</b>	small	petite	klein	pequeño	Petite white	3
	medium	moyenne	mittel	medio	Mont Blanc	5
	large	grande	groß	grande	Claudia	7
<b>25.</b> (* (+)	<b>Petal: shape</b>	<b>Pétale : forme</b>	<b>Blütenblatt: Form</b>	<b>Pétalo: forma</b>		
<b>PQ</b>	type 1	type 1	Typ 1	tipo 1	Belle Hélène, Italia	1
	type 2	type 2	Typ 2	tipo 2	Neguev	2
	type 3	type 3	Typ 3	tipo 3	Red Beauty, Splendens Foleis Variegata	3
	type 4	type 4	Typ 4	tipo 4	Luteum Plenum	4
<b>26.</b> (* (+)	<b>Petal: margin of blade</b>	<b>Pétale : bord du limbe</b>	<b>Blütenblatt; Rand der Spreite</b>	<b>Pétalo: borde del limbo</b>		
<b>PQ</b>	entire	entier	ganzrandig	entero	Hardy Red	1
	dentate	denté	gezähnt	dentado	Sœur Agnès	2
	sinuate	sinué	gebuchtet	sinuoso	Commandant Barthélémy	3
	lobed	lobé	gelappt	lobulado	Madame Allen	4
<b>27.</b> (* (+)	<b>Flower: main color of upper side of petal</b>	<b>Fleur : couleur principale de la face supérieure du pétale</b>	<b>Blüte: Hauptfarbe der Oberseite des Blütenblatts</b>	<b>Flor: color principal de la cara superior del pétalo</b>		
<b>PQ</b>	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)		

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>28.</b> (*) (+)	<b>Flower: secondary color of upper side of petal</b>	<b>Fleur : couleur secondaire de la face supérieure du pétale</b>	<b>Blüte: Sekundärfarbe der Oberseite des Blütenblatts</b>	<b>Flor: color secundario de la cara superior del pétalo</b>		
<b>QL</b>	absent	absente	fehlend	ausente	Ville de la Londe	1
	present	présente	vorhanden	presente	Wu han	9
<b>29.</b> (+)	<b>Flower: area of secondary color of upper side of petal</b>	<b>Fleur : surface de la couleur secondaire sur la face supérieure du pétale</b>	<b>Blüte: Zone der Sekundärfarbe der Oberseite des Blütenblatts</b>	<b>Flor: superficie del color secundario en la cara superior del pétalo</b>		
<b>QN</b>	very small	très petite	sehr klein	muy pequeña		1
	medium	moyenne	mittel	mediana		3
	very large	très grande	sehr groß	muy grande		5
<b>30.</b> (+)	<b>Petal: distribution of secondary color on upper side</b>	<b>Pétale : distribution de la couleur secondaire sur la face supérieure</b>	<b>Blütenblatt: Verteilung der Sekundärfarbe an der Oberseite</b>	<b>Pétalo: repartición del color secundario en la cara superior</b>		
<b>QN</b>	regular or slightly irregular	régulière ou faiblement irrégulière	regelmäßig oder leicht unregelmäßig	regular o ligeramente irregular	Simie	1
	moderately irregular	moyennement irrégulière	etwas unregelmäßig	moderadamente irregular	Louis Pouget	2
	very irregular	très irrégulière	sehr unregelmäßig	muy irregular	Wu Han	3
<b>31.</b> (+)	<b>Petal: intensification of color on left of lower side</b>	<b>Pétale : intensification de la couleur sur le côté gauche de la face intérieure</b>	<b>Blütenblatt: Verstärkung der Farbe an der linken Seite der Unterseite</b>	<b>Pétalo: intensificación del color en el lado izquierdo de la cara interna</b>		
<b>QL</b>	absent	absent	fehlend	ausente	Professeur Granel	1
	present	présent	vorhanden	presente	Virginie	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>32.</b> (*) (+)	<b>Petal: color at base of outer side</b>	<b>Pétale : couleur de la base de la face externe</b>	<b>Blütenblatt: Farbe an der Basis der Außenseite</b>	<b>Pétalo: color de la base de la cara externa</b>		
<b>PQ</b>	white	blanc	weiß	blanco	Splendens Giganteum	1
	pinkish white	blanc rosé	rosaweiß	blanco rosado	Tamouré	2
	whitish yellow	jaune blanchâtre	weißlichgelb	amarillo blancuzco	Emilie	3
	light yellow	jaune clair	hellgelb	amarillo claro	Petite Pink	4
	medium yellow	jaune moyen	mittelgelb	amarillo medio	Marie Gambetta	5
	greenish yellow	jaune verdâtre	grünlichgelb	amarillo verdoso	Alsace	6
	orange-yellow	jaune orangé	orangegeb	amarillo anaranjado	Isle of Capri	7
	orange	orangé	orange	anaranjado	Luteum Plenum	8
	pink	rose	rosa	rosa	Petite Red	9
	purplish pink	rose violacé	purpurrosa	rosa violeta	Petite White	10
	red	rouge	rot	rojo	Neridem	11
<b>33.</b>	<b>Corolla throat: length</b>	<b>Gorge de la corolle: longueur</b>	<b>Kronenschlund: Länge</b>	<b>Garganta de la corola: longitud</b>		
<b>QN</b>	very short	très courte	sehr kurz	muy corta	Roseum Plenum	1
	short	courte	kurz	corta	Tamouré	3
	medium	moyenne	mittel	mediana	Emilie	5
	long	longue	lang	larga	Hardy Red	7
<b>34.</b> (+)	<b>Corolla throat: diameter</b>	<b>Gorge de la corolle: diamètre</b>	<b>Kronenschlund: Durchmesser</b>	<b>Garganta de la corola: diámetro</b>		
<b>QN</b>	small	petit	klein	pequeño	Mrs Roeding	1
	medium	moyen	mittel	mediano	Rosita	2
	large	grand	groß	grande	Alassio	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>35.</b> (*)	<b>Corolla throat: color of external side</b>	<b>Gorge de la corolle: couleur de la face externe</b>	<b>Kronenschlund: Farbe der Außenseite</b>	<b>Garganta de la corola: color de la cara externa</b>		
<b>PQ</b>	whitish	blanchâtre	weißlich	blancuzco	Splendens Foleis Variegata	1
	greenish	verdâtre	grünlich	verdoso	Madame Burton	2
	pinkish white	blanche rosée	rosaweiß	blanca rosada	Petite Red	3
	light yellow	jaune clair	hellgelb	amarillo claro	Sœur Agnès	4
	medium yellow	jaune moyen	mittelgelb	amarillo medio	Marie Gambetta	5
	pinkish yellow	jaune rosé	rosagelb	amarillo rosado	Alsace	6
	orange yellow	jaune orangé	orange gelb	amarillo anaranjado	Angiolo Pucci	7
	orange	orange	orange	naranja	Luteum Plenum	8
	pink	rose	rosa	rosa	Petite White	9
	purplish pink	rose violacé	purpurrosa	rosa púrpura	Virginie	10
	light violet	violette claire	hellviolett	violeta claro	Barcelona	11
	red	rouge	rot	rojo	Pirate des Caraïbes	12
<b>36.</b> (*) (+)	<b>Corolla throat: petaloids</b>	<b>Gorge de la corolle : pétaloïdes</b>	<b>Kronenschlund: Nebenkronen</b>	<b>Garganta de la corola: petaloïdes</b>		
<b>QL</b>	absent	absents	fehlend	ausentes	Grandiflorum	1
	present	présents	vorhanden	presentes	Roseum Plenum	9
<b>37.</b> (*)	<b>Corolline appendages: length</b>	<b>Appendices corollins: longueur</b>	<b>Kronenanhängsel: Länge</b>	<b>Apéndices corolinos: longitud</b>		
<b>QN</b>	very short	très courte	sehr kurz	muy cortos	Neguev, Tavira	1
	short	courte	kurz	cortos	Maurin des Maures	3
	medium	moyenne	mittel	medianos	Emilie	5
	long	longue	lang	largos	Rosa Bartolini	7
	very long	très longue	sehr lang	muy largos	Jannoch	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>38.</b> (*) (+)	<b>Corolline appendages: crown attitude</b>	<b>Appendices corollins: port de la couronne</b>	<b>Kronenanhängsel: Haltung der Krone</b>	<b>Apéndices corolinos: porte de la corona</b>		
<b>QN</b>	erect	dressé	aufrecht	erecto	Ville de Carpentras	1
	semi erect	demi dressé	halbaufrecht	semierecto	Sœur Agnès	2
	spreading	étalé	horizontal	esparcido	East End Pink	3
<b>39.</b> (*) (+)	<b>Corolline appendages: lacination</b>	<b>Appendices corollins: découpure</b>	<b>Kronenanhängsel: Schlitzung</b>	<b>Apéndices corolinos: lobulado</b>		
<b>QN</b>	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Neguev	1
	weak	faible	gering	débil	Maurin des Maures	3
	medium	moyenne	mittel	medio	Emilie	5
	strong	forte	stark	fuerte	Rosa Bartolini	7
<b>40.</b> (*) (+)	<b>Corolla throat: color of inner side (excluding eye zone)</b>	<b>Gorge de la corolle : couleur de l'intérieur (en excluant l'œil)</b>	<b>Kronenschlund: Farbe der Innenseite (ohne Augenzone)</b>	<b>Garganta de la corola: color del interior (excluido el ojo)</b>		
<b>PQ</b>	white	blanche	weiß	blanco	Petite Pink	1
	whitish yellow	jaune blanchâtre	weißlichgelb	amarillo blancuzco	Grandiflorum	2
	yellow	jaune	gelb	amarillo	Marie Gambetta	3
	orange	orange	orange	naranja	Luteum Plenum	4
	light pink	rose clair	hellrosa	rosa claro	Virginie	5
	medium pink	rose moyen	mittelrosa	rosa medio	Belle Hélène	6
	pink red	rose rouge	rosarot	rosa rojizo	Hardy Red	7
	red	rouge	rot	rojo	Fiesta Rodi	8



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>41.</b> (+)	<b>Corolla throat: color of eye zone</b>	<b>Gorge de la corolle : couleur de l'oeil</b>	<b>Kronenschlund: Farbe der Augenzone</b>	<b>Garganta de la corola: color del ojo</b>		
<b>PQ</b>	white	blanc	weiß	blanco	Petite White	1
	whitish yellow	jaune blanchâtre	weißlichgelb	amarillo blancuzco	Claudia	2
	yellow	jaune	gelb	amarillo	Angiolo Pucci	3
	orange yellow	jaune orangé	orange gelb	amarillo anaranjado	Luteum Plenum	4
	orange	orange	orange	naranja	Mont Blanc	5
<b>42.</b> (* (+)	<b>Corolla throat: distribution of secondary color</b>	<b>Gorge de la corolle : distribution de la couleur secondaire</b>	<b>Kronenschlund: Verteilung der Sekundärfarbe</b>	<b>Garganta corolina: distribución del color secundario</b>		
<b>PQ</b>	even	unie	gleichmäßig	uniforme	Mont Blanc	1
	striped	striée	in Banden	estriado	Louis Pouget	2
	striated	rayée	gestreift	rayado	Hardy Red	3
	multistriated	multirayée	in mehreren Banden	multirrayado	Angiolo Pucci	4
	striped and striated	striée et rayée	in Banden und gestreift	estriado y rayado	Madame Allen	5
<b>43.</b> (+)	<b>Stamens: extrusion of plumose appendix of anther</b>	<b>Étamines : extrusion des appendices plumeux des anthères</b>	<b>Staubfäden: Hervortreten des fedrigen Fortsatzes des Staubbeutel</b>	<b>Estambres: extrusión de apéndices plumosos de las anteras</b>		
<b>QN</b>	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Professeur Granel	1
	weak	faible	gering	débil	Mont Blanc	3
	medium	moyenne	mittel	medio	Altini	5
	strong	forte	stark	fuerte	Hardy Red	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>44.</b>	<b>Calyx: color</b>	<b>Calice : couleur</b>	<b>Kelch: Farbe</b>	<b>Cáliz: color</b>		
<b>PQ</b>	only green	seulement vert	nur grün	sólo verde	Mont Blanc	1
	green and red	vert et rouge	grün und rot	verde y rojo	Alsace	2
	only red	seulement rouge	nur rot	sólo rojo	Fiesta Pienk	3
	purple	violet	purpurn	púrpura	Haifa	4
	reddish brown	brun rougeâtre	rötlichbraun	marrón rojizo	Roseum Plenum	5
	dark brown	brun foncé	dunkelbraun	marrón oscuro	Commandant Barthélémy	6
<b>45.</b>	<b>Sepals: length</b>	<b>Sépales : longueur</b>	<b>Kelchblätter: Länge</b>	<b>Sépalos: longitud</b>		
<b>QN</b>	short	court	kurz	cortos	Luteum Plenum	3
	medium	moyen	mittel	medianos	Altini	5
	long	long	lang	largos	Petite White	7
<b>46. (* (+)</b>	<b>Sepals: position in relation to corolla tube</b>	<b>Sépales : position par rapport au tube de la corolle</b>	<b>Kelchblätter: Position im Verhältnis zur Kronröhre</b>	<b>Sépalos: posición en relación con el tubo de la corola</b>		
<b>QN</b>	adpressed or slightly reflexed	appliqué ou faiblement écarté	anliegend oder leicht zurückgebogen	aplicados o ligeramente recurvados	Rosa Bartolini	1
	moderately reflexed	modérément écarté	mäßig zurückgebogen	moderadamente recurvados	Grandiflorum	2
	strongly reflexed	fortement écarté	stark zurückgebogen	fuertemente recurvados	JR 95-1	3
<b>47.</b>	<b>Pedicels: color</b>	<b>Pédicelles : couleur</b>	<b>Blütenstiele: Farbe</b>	<b>pedicelos: color</b>		
<b>PQ</b>	only green	seulement vert	nur grün	sólo verdes	Neguev	1
	green and red	vert et rouge	grün und rot	verdes y rojos	Belle Hélène	2
	green and purple	vert et violet	grün und purpurn	verdes y púrpura	Barcelona	3
	only red	seulement rouge	nur rot	sólo rojos	Altini	4
	only brown	seulement brun	nur braun	sólo marrones	Maréchal Grazziani	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>48.</b>	<b>Time of beginning of flowering</b>	<b>Époque du début de la floraison</b>	<b>Zeitpunkt des Blühbeginns</b>	<b>Época del comienzo de la floración</b>		
<b>QN</b>	early	précoce	früh	temprana	Italia	3
	medium	moyenne	mittel	mediana	Marie Gambetta	5
	late	tardive	spät	tardía	Hawaiï	7
<b>49.</b>	<b>Fruit: length</b>	<b>Fruit : longueur</b>	<b>Frucht: Länge</b>	<b>Fruto: longitud</b>		
<b>QN</b>	short	courte	kurz	corto	Marie Mauron, Rosita	3
	medium	moyenne	mittel	mediano	Italia, Sœur Agnès	5
	long	longue	lang	largo	Pink Beauty, Roseum Plenum	7
<b>50.</b>	<b>Fruit: diameter</b>	<b>Fruit : diamètre</b>	<b>Frucht: Durchmesser</b>	<b>Fruto: diámetro</b>		
<b>QN</b>	small	petit	klein	pequeño	Roseum Plenum	<b>1</b>
	medium	moyen	mittel	mediano	Pink Beauty	<b>2</b>
	large	grand	groß	grande	Marie Mauron	<b>3</b>
<b>51.</b>	<b>Fruit: shape</b>	<b>Fruit : forme</b>	<b>Frucht: Form</b>	<b>Fruto: forma</b>		
(+)						
<b>PQ</b>	straight	droite	gerade	recto	Maurin des Maures	1
	curved	courbée	gebogen	curvado	Italia	2
	sinusoidal	sinusoïdale	gebuchtet	sinusoidal	Emilie	3
<b>52.</b>	<b>Fruit: color</b>	<b>Fruit : couleur</b>	<b>Frucht: Farbe</b>	<b>Fruto: color</b>		
(+)						
<b>PQ</b>	light green	vert clair	hellgrün	verde claro	Alsace	1
	green and red	vert et rouge	grün und rot	verde y rojo	Docteur Raggioneri	2
	only red	seulement rouge	nur rot	sólo rojo	Nana Rosso	3

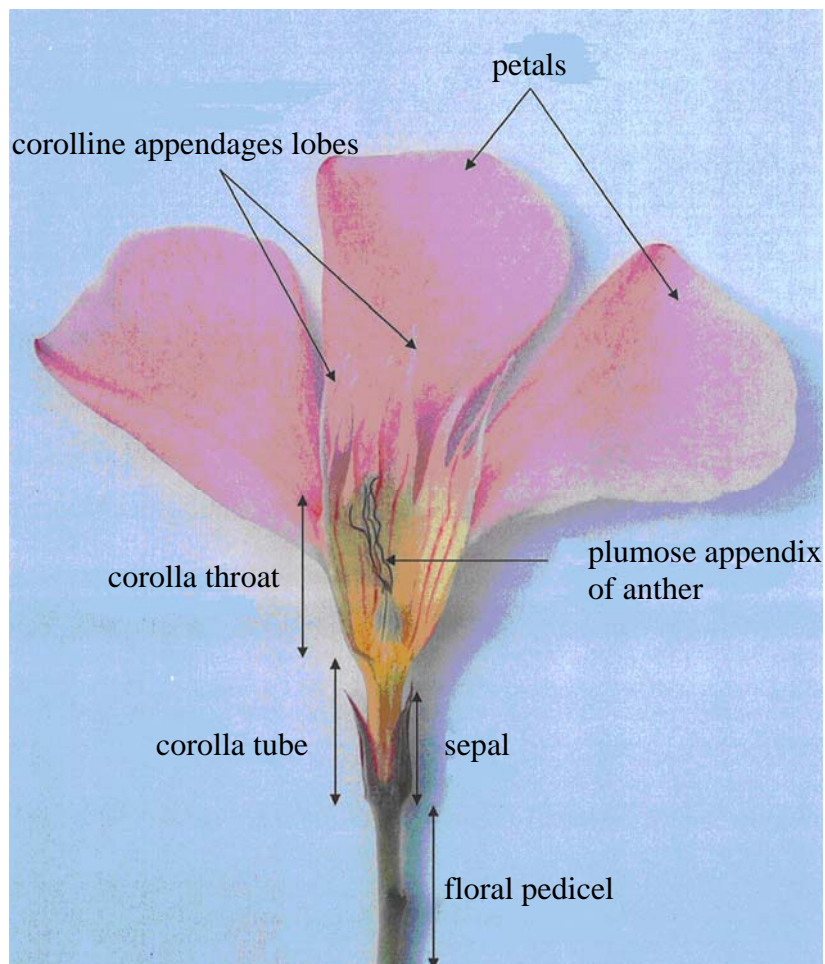
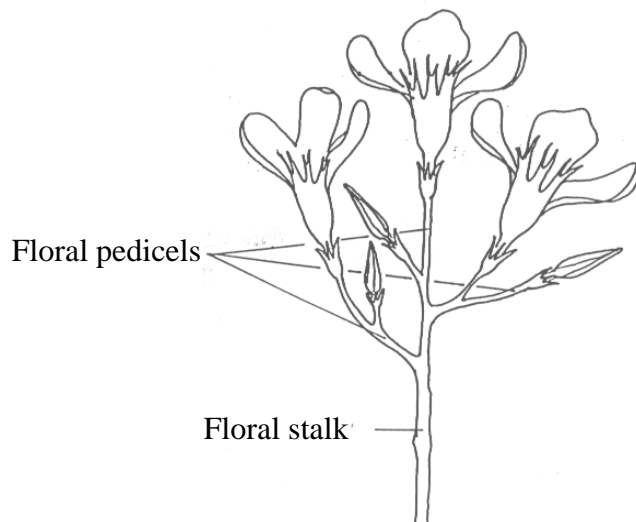
8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

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

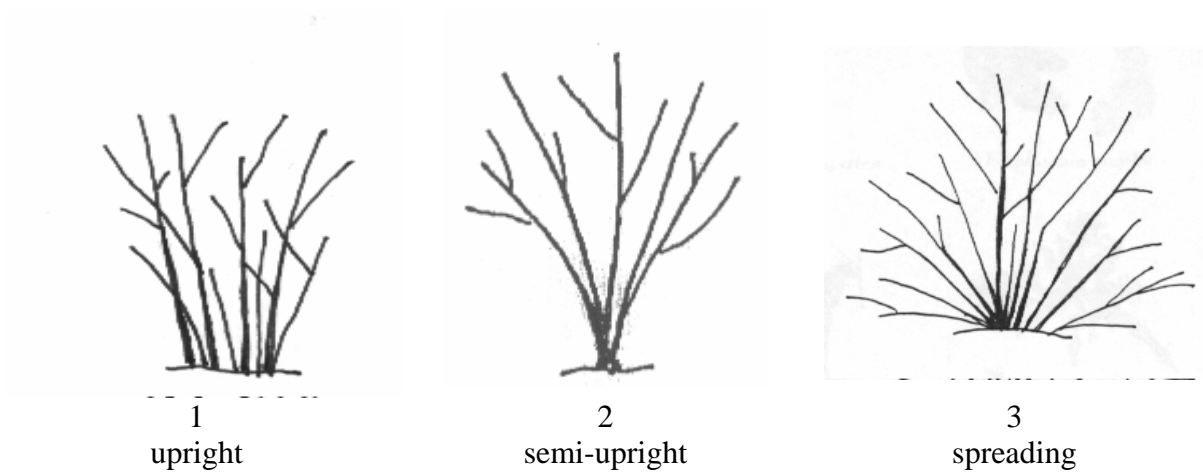
- (a) Observations on the flower which should be made on the day of opening at first flush of flower.

General terminology



8.2 *Explanations for individual characteristics*

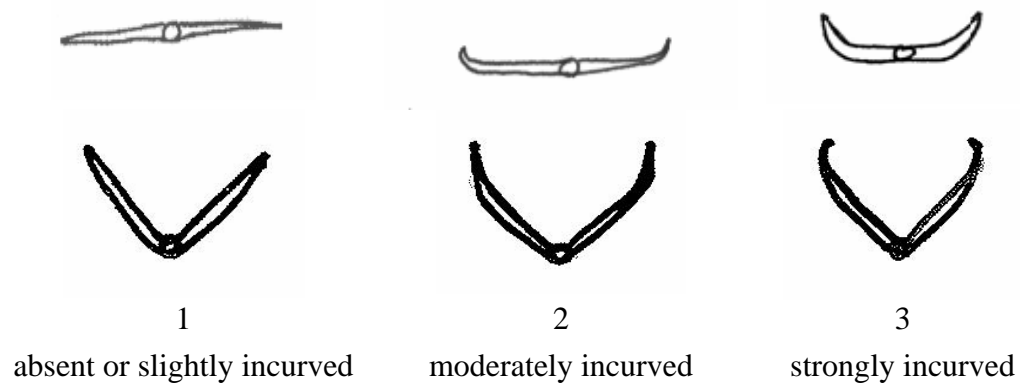
Ad. 2: Plant: growth habit



Ad. 9: Leaf blade: profile in cross section



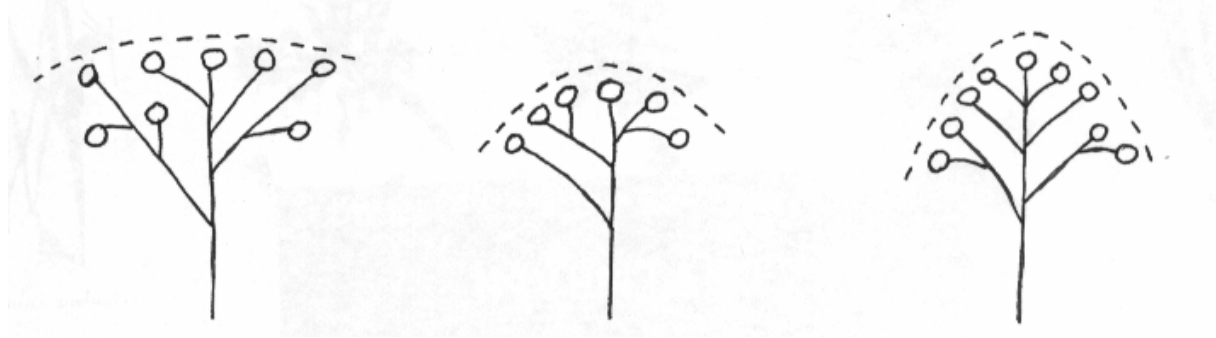
Ad. 10: Leaf blade: incurving of margins



Ad. 11: Leaf blade: glossiness of upper side

To be observed in the shade.

Ad. 13: Inflorescence: curvature of upper part



1  
absent or weak

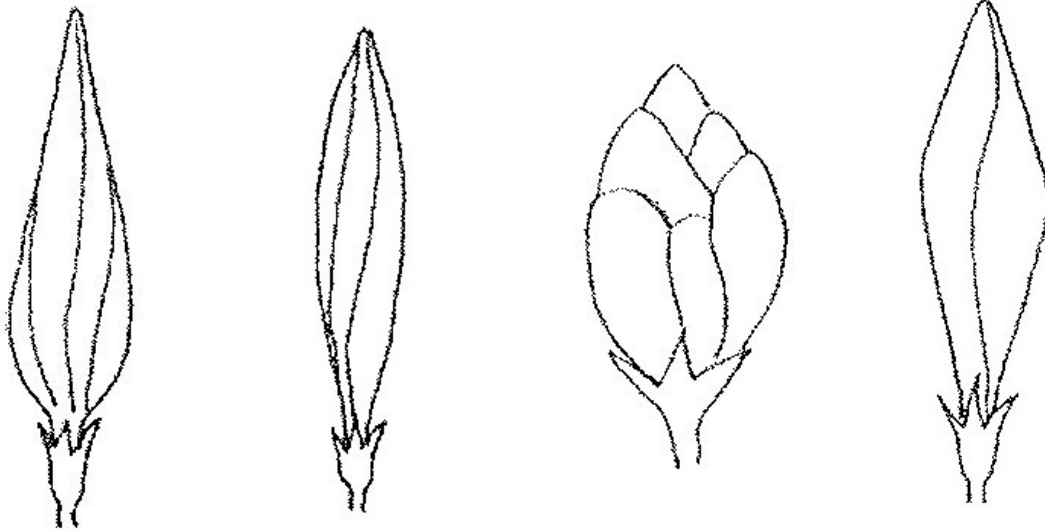
2  
medium

3  
strong

Ad. 15: Plant: number of flowers

It refers to the number of flowers per plant at full flowering.

Ad. 16: Flower bud: shape



1  
ovate

2  
narrow elliptic

3  
broad elliptic

4  
rhombic

Ad. 20: Flower : number of whorls of petals

Petaloids to be excluded.

Ad. 23: Petal : attitude of upper part

Should be observed on a fully open flower, excluding the tube.



1  
erect



2  
semi erect



3  
horizontal

Ad. 25: Petal: shape

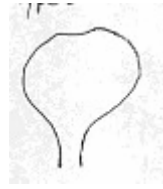
To place the petal in a flat position (first crown of petal).



1  
type 1



2  
type 2

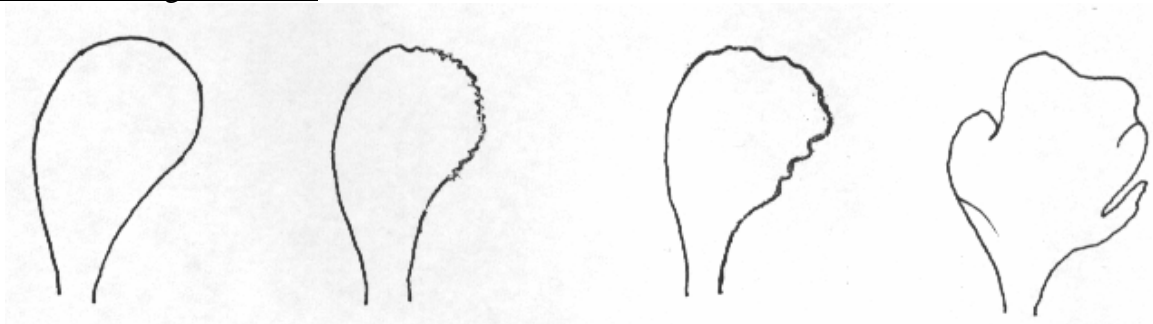


3  
type 3



4  
type 4

Ad. 26: Petal: margin of blade



1  
entire

2  
dentate

3  
sinuate

4  
lobed

Ad. 27: Flower: main color of upper side of petal

The main color is the color with the largest surface area.

Ad. 28: Flower: secondary color of upper side of petal

The secondary color is the color with the second largest area.



1  
absent



9  
present

Ad. 29: Flower: area of secondary color of upper side of petal

The area will not exceed 50 % of the surface area.



1  
very small



3  
medium



5  
very large

Ad. 30: Petal: distribution of secondary color on upper side



1  
regular or slightly irregular



2  
moderately irregular



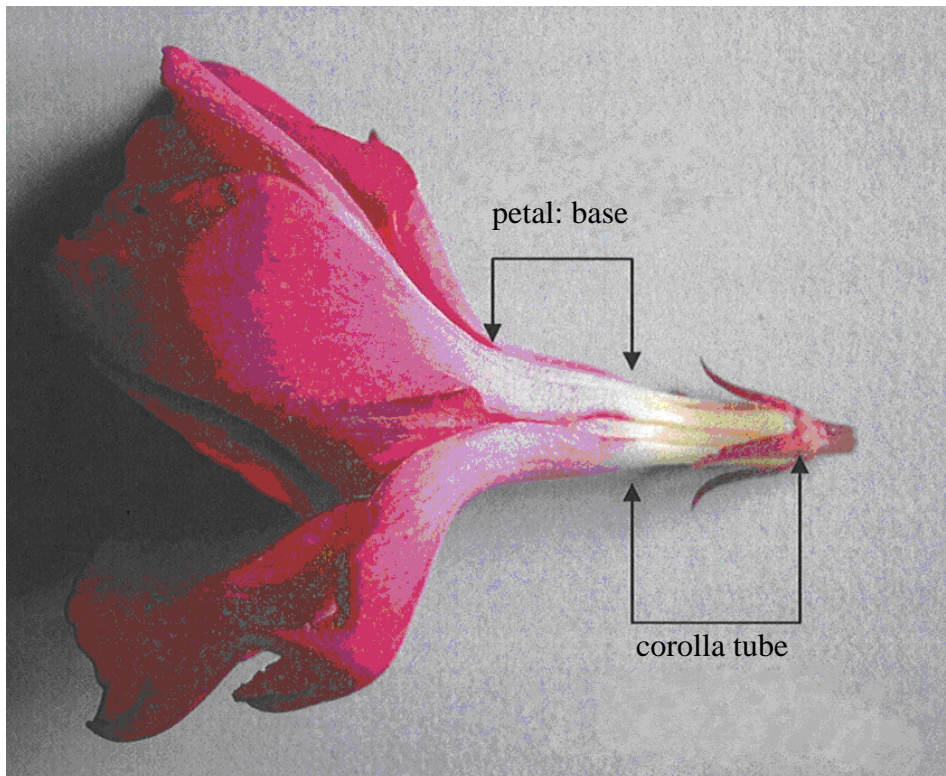
3  
very irregular



Ad. 31: Petal: intensification of color on left of lower side



Ad. 32: Petal: color at base of outer side



Ad. 34: Corolla throat: diameter

Petaloids should be removed.



Ad. 36: Corolla throat: petaloids



1  
absent



9  
present

Ad. 38: Corolline appendages: crown attitude



1  
erect



2  
semi erect



3  
spreading

Ad. 39: Corolline appendages: laciniation



1  
absent or very weak

3  
weak

5  
medium

7  
strong

Ad. 40: Corolla throat: color of inner side (excluding eye zone)

Ad. 41: Corolla throat: color of eye zone

Petaloids should be removed.



Corolla throat: color of inner side (excluding eye zone)

Corolla throat: color of eye zone

Ad. 42: Corolline throat: distribution of secondary color

Petaloids should be removed.



1  
even



3  
striped



5  
striated



4  
multistriated



5  
striped and striated

Ad. 43: Stamens: extrusion of plumose appendix of anther



1  
absent or very weak



3  
weak

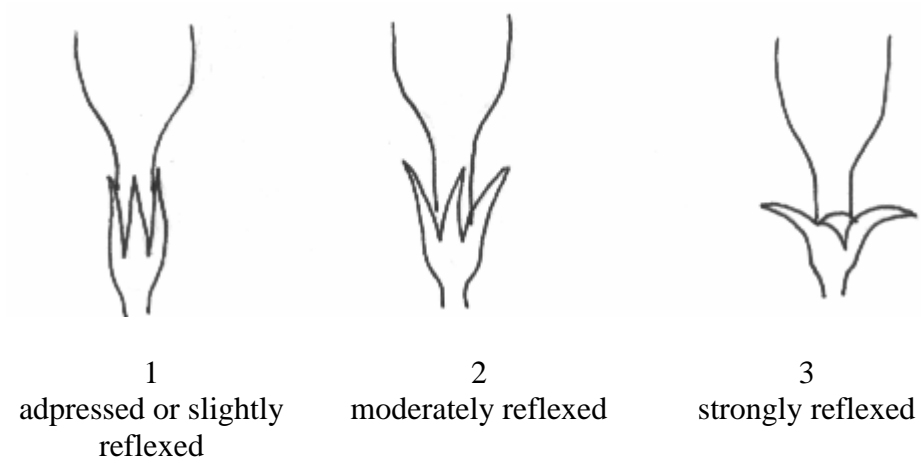


5  
medium

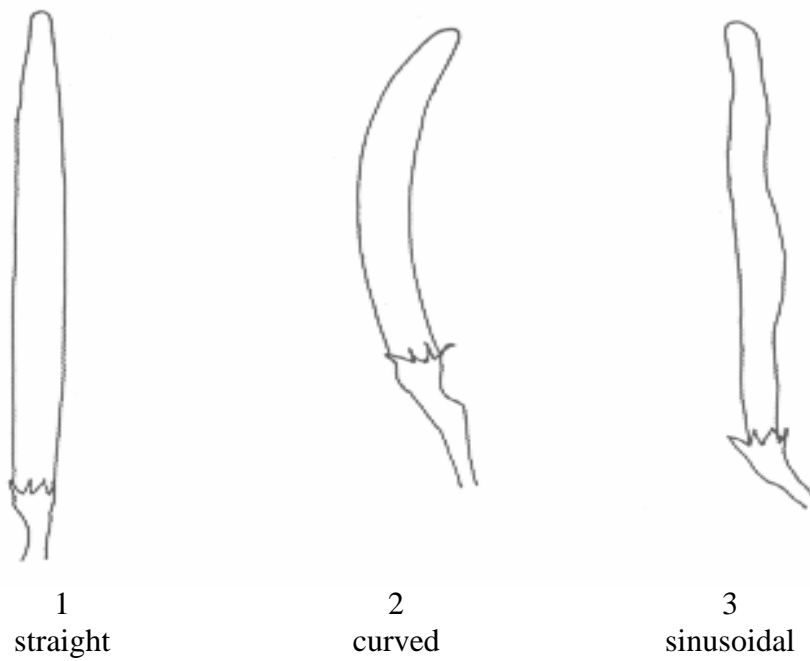


7  
strong

Ad. 46: Sepals: position in relation to corolla tube



Ad. 51: Fruit: shape



Ad. 52: Fruit: color

The fruit color should be observed at full size of the fruit, before ripening.

9. Literature

Eggenberger, R. & M. H., 1996: The Handbook on Oleanders. Tropical Plant Specialist, Cleveland, Georgia, US.

1991: Oleanders, Guide to culture and selected varieties on Galveston Island. International Oleander Society, Galveston, Texas, US.

Pagen F.J.J., 1987: Oleanders, Nerium L. and the oleander cultivars. Agricultural University Wageningen Papers, 87-2, NL.

Pépinière Filippi, 1997: Guide de Reconnaissance des Lauriers-roses. Mèze, Hérault, FR.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<b>TECHNICAL QUESTIONNAIRE</b> 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="Nerium oleander L."/>	
1.2 Common name	<input type="text" value="Oleander"/>	
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)
- (b) partially known cross [ ]  
(please state known parent variety(ies))
- (c) unknown cross [ ]

4.1.2 Mutation [ ]  
(please state parent variety)

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

4.1.4 Other [ ]  
(please provide details)

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) rootstock [ ]  
(please indicate rootstock used)

- (b) *in vitro* propagation [ ]
- (c) other (state method) [ ]

4.2.2 Other [ ]  
(please provide details)

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



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

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
<b>5.1 Plant: growth type</b> (1)		
dwarf	Petite Pink, Petite Red	1[ ]
normal	Alassio, Altini	2[ ]
<b>5.2 Plant: growth habit</b> (2)		
upright	Belle Hélène	1[ ]
semi-upright	Fiesta Pink	2[ ]
spreading	Altini	3[ ]
<b>5.3 Flower: color</b> (19)		
whitish	Alsace, Mont blanc, Petite white	1[ ]
yellow	Isle of Capri, Luteum Plenum	2[ ]
light orange	Angiolo Pucci	3[ ]
light orange pink	Hawaï, Mrs Roeding, Tito Poggi	4[ ]
light pink	East End Pink, Magaly	5[ ]
medium to dark pink	Alassio, Emilie, Roseum plenum	6[ ]
pink red	JR 95-1, Commandant Barthélémy	7[ ]
red	Altini, Petite Red, Tamouré	8[ ]
light violet	Barcelona	9[ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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	Characteristics	Example Varieties	Note
<b>5.4</b> <b>(20)</b>	<b>Flower: number of whorls of petals</b>		
	one	Emilie	1[ ]
	more than one	Mrs Roeding, Professeur Granel,	2[ ]

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

6. Similar varieties and differences from these varieties

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

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Flower color</i>	<i>light orange</i>	<i>light orange pink</i>

Comments:

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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [ ] No [ ]

(If yes, please provide details)

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

Yes [ ] No [ ]

(If yes, please provide details)

7.3 Other information

A representative color photograph of the variety 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.

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

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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".

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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]