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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
Technical Working Party for Ornamental Plants and Forest Trees
at its fortieth session, to be held in Kunming, China, from July 2 to 6, 2007*

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, Oleandre	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), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all vegetatively propagated varieties of *Nerium oleander* L. (*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.

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

6 plants, unpinched, not grafted and untreated.

[IL = Warning : as plant material of Oleander is poisonous it should be handled with care(?)]

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, especially with dwarfing compound, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be:

A test should normally be conducted for two growing periods but an additional establishment year before recording may be needed. If distinctness and/or homogeneity cannot be sufficiently established in two growing period, the test should be extended for third growing period.

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.

3.3.2 Unless otherwise indicated, all observations on the flower should be made the day of opening at the first flush of flower.

3.3.3 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 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 (char. 1)
- (b) Plant : growth habit (char. 2)
- (c) Flower : color group (char. 21)

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

(+) See explanations on the Table of Characteristics in Chapter 8.

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
2006 TWO to be deleted, France 2007 wants to keep it IL : the problem is the word normal. Char. 3. Height is sufficient (to be discussed in TWO 07)						
1.	Plant: growth type	Plante: Type de croissance				
QL	dwarf	nain			Petite Red, Petite Pienk	1
	normal	normal			Alassio, Altini	2
2.	Plant: growth habit	Plante: port	to be discussed in TWO 07			
(+)						
PQ	upright	érigé			Belle Hélène	1
	semi- upright	demi dressé			Fiesta Pink	2
	spreading	étalé			Altini	3
3.	Plant: height	Plante: hauteur				
QN	very short	très courte			Petite Red	1
	short	courte			Nana Rosso	3
	medium	moyenne			Papa Gambetta	5
	tall	haute			Belle Hélène	7
	very tall	très haute			Professeur Granel / La Fontaine	9
4.	Shoot: color of distal part (current year's shoot)	Rameau: couleur de la partie supérieure (rameau de l'année)				
PQ	light green	vert clair			Belle Hélène	1
	medium green	vert moyen			Altini	2
	dark green	vert foncé			Papa Gambetta	3
	reddish brown	brun rougeâtre			Virginie	4
	brown	brun			Fiesta Rodi	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5.	Shoot : rigidity	Rameau : rigidité	to be deleted			
QL	weak	faible			Mrs Roeding	3
	medium	moyenne			Splendens Giganteum	5
	strong	forte			Belle Helène	7
6. (*)	Leaf blade: length	Feuille: longueur du limbe				
QN	short	courte			Petite Pink	3
	medium	moyenne			Hardy Red	5
	long	longue			Alassio	7
7. (*)	Leaf blade: width	Feuille: largeur du limbe				
QN	narrow	étroite			Papa Gambetta	3
	medium	moyenne			Emile Sahut	5
	broad	large			Emilie	7
	IL : first variegation, then main colour and both chars after Leaf blade : width					
8.	Leaf blade: main color of upper side	Feuille: couleur principale de la partie supérieure				
PQ	light green	vert clair			Petite white	1
	medium green	vert moyen			Alassio	2
	dark green	vert foncé			Papa Gambetta	3
	bluish-green	vert bleuté			JR 95-1	4
9. (*)	Leaf blade : variegation	Feuille : panachure				
QL	absent	absente			Marie Gambetta	1
	present	présente			Splendens Foleis Variegata	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
10. (*)	Leaf blade: profile in cross section	Feuille: section transversale				
QL	flat	plate			Nana Rosso, Pink Beauty	1
	folded	pliée			Petite Red	2
11. (+)	Leaf blade : incurving of margins	Limbe : enroulement des bords				
QL	absent	absent			Nana Rosso	1
	present	présent			Pink Beauty	9
12. (+)	Leaf blade : glossiness of upper side to be observed in the shade	Feuille : brillance de la face supérieure (à observer à l'ombre)				
QL	absent	absente			Petite Red	1
	present	présente			Papa Gambetta	9
13.	Leaf blade : pubescence of upper side	Feuille : pubescence de la face supérieure				
QL	absent	absente			Petite Red, Papa Gambetta	1
	present	présente			JR 95-1	9
14. (*) (+)	Inflorescence : shape of upper part	Inflorescence : forme de la partie supérieure				
QL	flat	plate			Petite White	1
	domed	arrondie			Petite Red	2
	conical (TWO 06/elliptical to be	Elliptique discussed in TWO 07			Petite Pink	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
15.	Inflorescence : position in relation to foliage	Inflorescence : position par rapport au feuillage				
QL	outer or above	à l'extérieur/au- dessus			East End Pink	3
	same level	au même niveau			Petite Red	2
	inner or beneath	à l'intérieur/dessous			Alassio	1
	to be discussed in TWO 07 France proposes above 3/ beneath 7					
16.	Floriferousness :	Floribondité :				
QN	weak	faible			Neridem	3
	medium	moyenne			Soleil Levant	5
	strong	forte			Altini	7
17. (* (+)	Flower bud : shape (just before opening)	Bouton floral : forme (juste avant l'ouverture)				
QL	ellipsoid	ellipsoïde			Mont Rose	1
	ovoid	ovoïde			Hawaiï	2
	rhomboid	rhomboïde			JR 95-1	3
	globose	globuleux			Splendens Giganteum	4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
18.	Flower bud : main color (just before opening)	Bouton floral : couleur principale (juste avant l'ouverture)				
QL	white or nearly white	blanc ou presque blanc			Petite white	1
	yellow	jaune			Sœur Agnès	2
	light pink	rose clair			Alsace	3
	medium pink	rose moyen			Nana Rosso	4
	dark pink	rose foncé			Louis Pouget	5
	magenta (basic color)	magenta (couleur primaire)			Hardy Pink	6
	red	rouge			Italia	7
	light violet	violet clair			Barcelona	8
Just before opening to be placed in chapter 8.1						
19.	Flower bud : swelling just before opening	Bouton floral : gonflement juste avant l'ouverture	IL : all buds swell. Something as an outgrowing ??			
QL	absent	absent			Alsace	1
	present	présent			Angiolo Pucci	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20 (*)	Flower : color to be discussed in TWO 07	Fleur : groupe de couleur				
QL	whitish	blanchâtre			Petite white, Alsace, Mont Blanc	1
	yellow	jaune			Isle of Capri, Luteum Plenum	2
	light orange	orange clair			Angiolo Pucci	3
	light orange pink	orange clair rose			Tito Poggi, Hawaiï, Mrs Roeding	4
	light pink	rose clair			Magaly, East End Pink	5
	medium pink and dark pink	rose moyen et rose foncé			Alassio, Emilie, Roseum plenum	6
	light violet	violet clair			Barcelona	7
	magenta	magenta			JR 95-1, Commandant Barthélémy	8
	red	rouge			Altini, Petite Red, Tamouré	9
21. (*)	Flower : whorls of petals	Fleur : nombre de rang de pétales				
QL	one	un			Emilie	1
	two	deux			Professeur Granel	2
	three	trois			Mrs Roeding	3
22. (*)	Flower : maximum diameter	Fleur : diamètre total				
QN	small	petit			Petite Red	3
	medium	moyen			Mrs Roeding	5
	large	grand			Roseum Plenum	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
23. (* (+)	Flower : shape (view from above)	Fleur : forme (vue de dessus)				
QL	round	ronde			Mrs Roeding	1
	pinwheel-shaped	turbinée			Emilie	2
	irregular	irrégulière			Splendens Foleis Variegata	3
	star-shaped	étoilée			Isle of Capri	4
24. (* (+)	Petal (IL : Corolla lobe) : attitude of the upper part (fully opened flower, excluding the tube)	Pétale : profil de la partie supérieure (fleur complètement ouverte, hors tube)				
QL	erect	dressé			Petite Pink	1
	semi erect	demi dressé			Isle of Capri	2
	spreading	évasé			Hawaiï	3
25.	Flower : fragrance	Fleur : parfum				
QL	absent or very weak	absent ou très faible			Jordan Valley	1
	weak	faible			Arizona	3
	medium	moyen			Alassio	5
	strong	fort			Louis Pouget	7
26.	Petal (IL : Corolla lobe) : size	Pétale : taille				
QN	small	petite			Petite white	3
	medium	moyenne			Mont Blanc	5
	large	grande			Claudia	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27. (*) (+)	Petal : predominant shape	Pétale : forme prédominante				
QL	type 1	type 1			Belle Hélène, Italia	1
	type 2	type 2			Neguev	2
	type 3	type 3			Red Beauty, Splendens Foleis Variegata	3
	type 4	type 4			Luteum Plenum	4
28. (*) (+)	Petal : margin of blade (IL : incisions of margin)	Pétale : bord du limbe	could it be "entire and sinuate" or others combinations ? FR 07 independent states			
PQ	entire	entier			Hardy Red	1
	dentate	denté			Sœur Agnès	2
	sinuate	sinué			Commandant Barthélémy	3
	lobed	lobé			Madame Allen	4
29. (*)	Petal : color of upper side	Pétale : couleur de la face interne				
PQ	RHS Colour Chart (indicate reference number)	code RHS des couleurs (indiquer le numéro de référence)				
30. (*)	Petal : striping	Pétale : stries	See photo in TWO 07			
QL	absent	absentes			Ville de la Londe	1
	present	présentes			Commandant Barthélémy	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31 (+)	Petal : pattern of streaks	Pétale : repartition des stries	To be discussed in TW0 07, see drawing/photo during TWO 07			
PQ	isolated	isolées			Emilie	1
	regularly distributed	distribuées régulièrement			Harriet Newding	2
	random	aléatoires			Commandant Barthélémy	3
	variegations	panachures			JR 95-1	4
32.	Petal : margin zone on the left of upper side	Pétale : liseré sur le côté gauche de la face supérieure	See photo during TWO 07			
PQ	absent	absent			Professeur Granel	1
	present	présent			Virginie	9
33. (*)	Petal : color of the lower side base	Pétale : couleur de la base de la face inférieure				
QL	white	blanc			Splendens Giganteum	1
	pinkish white	blanc rosé			Tamouré	2
	whitish yellow	jaune blanchâtre			Emilie	3
	light yellow	jaune clair			Petite Pink	4
	yellow	jaune			Marie Gambetta	5
	greenish yellow	jaune verdâtre			Alsace	6
	orange-yellow	jaune orangé			Isle of Capri	7
	orange	orangé			Luteum Plenum	8
	pink	rose			Petite Red	9
	purplish pink	rose violacé			Petite White	10
	red	rouge			Neridem	11

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
34. (*)	To be explained via	photo during TWO 07				
	Corolla tube : petaloids inside of throat	Tube de la corolle : pétaloïdes à l'intérieur de la gorge				
PQ	absent	absents			Grandiflorum	1
	present	présents			Roseum Plenum	9
35. (*)	Corolla tube : petaloids at level of the first inner corolla	Tube de la corolle : pétaloïdes au niveau de la première corolle interne	to be precised with photo during TWO 07			
PQ	absent	absents			Mont Blanc	1
	present	présents			Splendens Giganteum	9
36.	Corolla tube : length	Tube de la corolle : longueur				
QN	very short	très courte			Roseum Plenum	1
	short	courte			Tamouré	3
	medium	moyenne			Emilie	5
	long	longue			Hardy Red	7
37.	Corolla tube : maximum diameter	Tube de la corolle : diamètre				
PQ	small	petit			Mrs Roeding	3
	medium	moyen			Rosita	5
	large	grand			Alassio	7
	to check the position to be observed (photo) during TWO 07					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
38. (*)	Corolla tube : color of external side	Tube de la corolle : couleur face externe				
PQ	whitish	blanchâtre			Splendens Foleis Variegata	1
	greenish	verdâtre			Madame Burton	2
	pinkish white	blanc rosé			Petite Red	3
	light yellow	jaune clair			Sœur Agnès	4
	yellow	jaune			Marie Gambetta	5
	pinkish yellow	jaune rosé			Alsace	6
	orange yellow	jaune orangé			Angiolo Pucci	7
	orange	orange			Luteum Plenum	8
	pink	rose			Petite White	9
	purplish pink	rose violacé			Virginie	10
	light violet	violet clair			Barcelona	11
	red	rouge			Pirate des Caraïbes	12
39. (*)	Corolline appendages : length	Appendices corollins: longueur				
QN	very short	très courte			Neguev, Tavira	1
	short	courte			Maurin des Maures	3
	medium	moyenne			Emilie	5
	long	longue			Rosa Bartolini	7
	very long	très longue			Jannoch	9
40. (*)	Corolline appendages : crown shape	Appendices corollins: forme de la couronne				
PQ	erect	dressé			Ville de Carpentras	1
	semi erect	demi dressé			Sœur Agnès	2
	spreading	étalé			East End Pink	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
41. (*)	Corolline appendages : denticulation of lobes	Appendices corollins: découpure des lobes				
PQ	absent or very weak	absente ou très faible			Neguev	1
	weak	faible			Maurin des Maures	3
	medium	moyenne			Emilie	5
	strong	forte			Rosa Bartolini	7
42. (*)	Corolla tube : inner colour (opened throat)	Tube de la corolle : couleur de l'intérieur (gorge ouverte)				
PQ	white	blanche			Petite Pink	1
	whitish yellow	jaune blanchâtre			Grandiflorum	2
	yellow	jaune			Marie Gambetta	3
	orange	orange			Luteum Plenum	4
	light pink	rose clair			Virginie	5
	medium pink	rose moyen			Belle Hélène	6
	magenta	magenta			Hardy Red	7
	red	rouge			Fiesta Rodi	8
43.	Corolla tube : inner color of base (opened throat)	Tube de la corolle : couleur du fond à l'intérieur (gorge ouverte)				
PQ	white	blanc			Petite White	1
	whitish yellow	jaune blanchâtre			Claudia	2
	yellow	jaune			Angiolo Pucci	3
	orange yellow	jaune orangé			Luteum Plenum	4
	orange	orange			Mont Blanc	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
44. (*)	photo: to be checked Corolla tube : pattern of inner colour	with TGP14 on color. Tube de la corolle : répartition de la couleur à l'intérieur				
PQ	eaven	unie			Mont Blanc	1
	striped	striée			Louis Pouget	2
	one striped	unirayée			Hardy Red	3
	multistriped	multirayée			Angiolo Pucci	4
	striped and striate	rayée et striée			Madame Allen	5
45. (+)	Stamens : extrusion of plumose appendix of anther	Etamines : extrusion des appendices plumeux des anthères				
QN	absent or very weak	nulle ou très faible			Professeur Granel	1
	weak	faible			Mont Blanc	3
	medium	moyenne			Altini	5
	strong	forte			Hardy Red	7
46.	Calyx : color	Calice : couleur				
PQ	green	vert			Mont Blanc	1
	green and red	vert et rouge			Alsace	2
	red	rouge			Fiesta Pienk	3
	purple	violet			Haïfa	4
	reddish brow	brun rougeâtre			Roseum Plenum	5
	dark brown	brun foncé			Commandant Barthélémy	6
47.	Sepals : length	Sépales : longueur				
QN	short	court			Luteum Plenum	3
	medium	moyen			Altini	5
	long	long			Petite White	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
48. (*) (+)	Sepals : position in relation to corolla tube	Sépales : position par rapport au tube de la corolle				
QN	adpressed	appliquée			Rosa Bartolini	1
	moderately separated	modérément écartée			Grandiflorum	2
	strongly separated	fortement écarté			JR 95-1	3
49.	Flower : color of pedicels	Fleur : couleur des pédicelles				
PQ	green	vert			Neguev	1
	green and red	vert et rouge			Belle Hélène	2
	green and purple	vert et violet			Barcelona	3
	red	rouge			Altini	4
	brown	brun			Maréchal Grazziani	5
50.	Time of beginning of flowering	Epoque du début de la floraison				
QN	early	précoce			Italia	3
	medium	moyenne			Marie Gambetta	5
	late	tardive			Hawaiï	7
51.	Fruit : length	Fruit : longueur				
QN	short	courte			Rosita, Marie Mauron	3
	medium	moyenne			Sœur Agnès, Italia	5
	long	longue			Pink Beauty, Roseum Plenum	7
52.	Fruit : diameter	Fruit : diamètre				
QN	small	petit			Roseum Plenum	3
	medium	moyen			Pink Beauty	5
	large	grand			Marie Mauron	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
53.	Fruit : longitudinal axis	Fruit : forme prédominante				
(+)						
PQ	straight	droite			Maurin des Maures	1
	curved	courbée			Italia	2
	sinusoidal	sinusoïdale			Emilie	3
54.	Fruit : color	Fruit : couleur				
PQ	light green	vert clair			Alsace	1
	green and red	vert et rouge			Docteur Raggioneri	2
	red	rouge			Nana Rosso	3

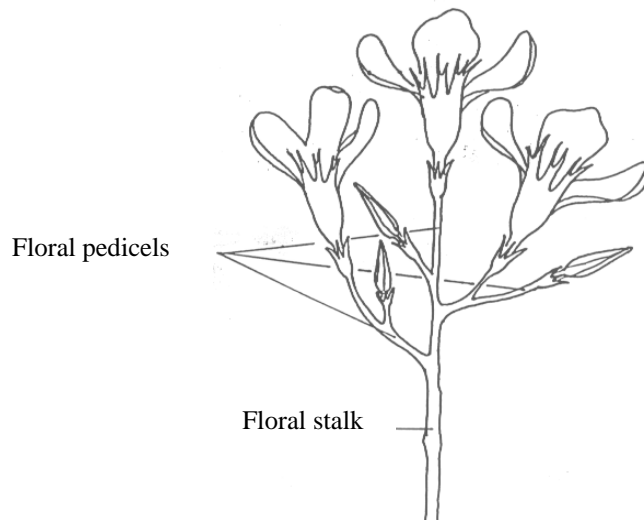
8. Explanations on the Table of Characteristics

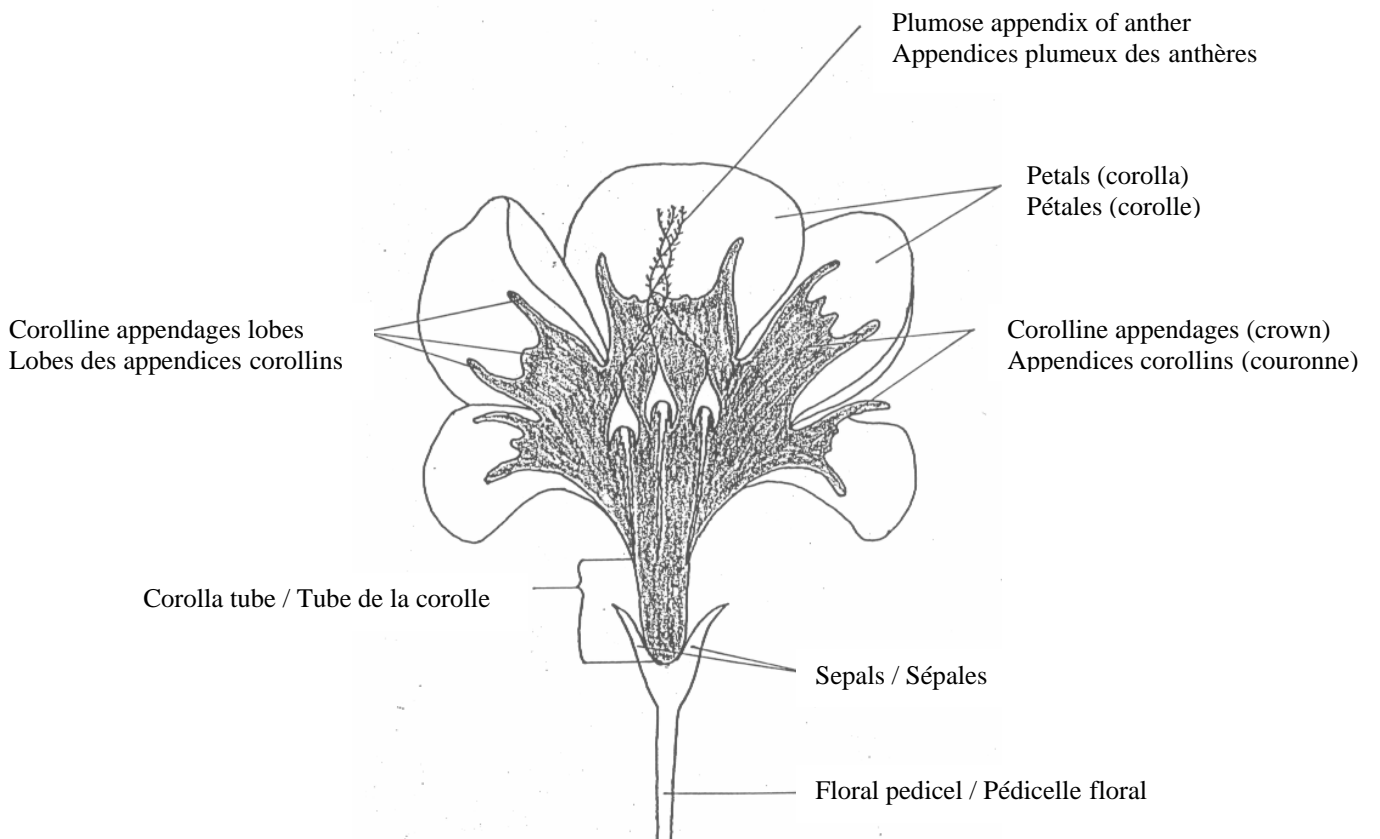
8.1 *Explanations covering several characteristics*

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/Terminologie générale





8.2 *Explanations for individual characteristics*

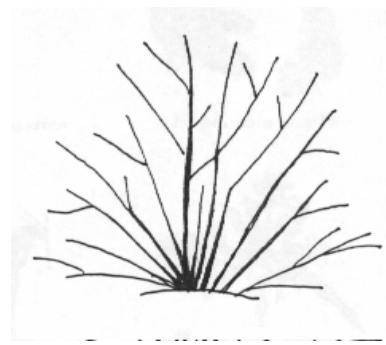
Ad/Add. 2 : Plant : growth habit/Plante : port



1
upright
dressé



2
semi-upright
demi dressé



3
spreading
étalé

Ad/Add.10 : Leaf blade : profile in cross section/Feuille : section transversale

Ad/Add 11 : Leaf blade : incurving of margins/Limbe : enroulement des bords



1
flat
plate



2
folded
pliée

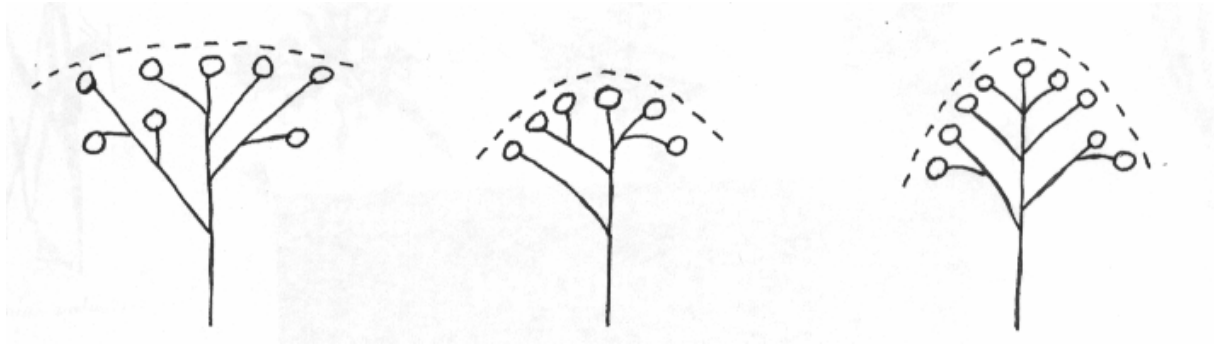


1
absent
absent



9
present
présent

Ad/Add. 14 : Inflorescence : shape of upper part/Inflorescence : forme de la partie supérieure

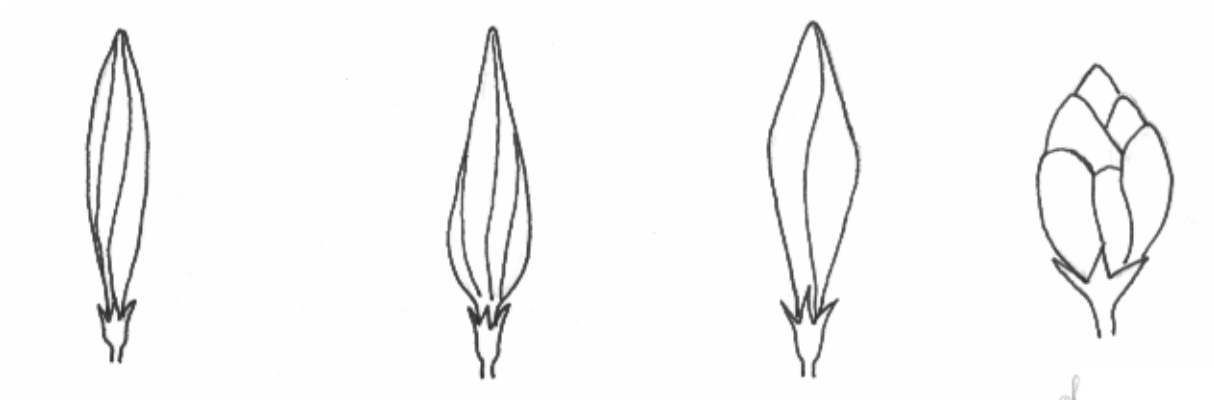


1
flat
plate

2
domed
arrondie

3
conical or elliptic
conique ou elliptique

Ad/Add. 17 : Flower bud : shape (**just** before opening)/Bouton floral : forme (**juste** avant l'ouverture)



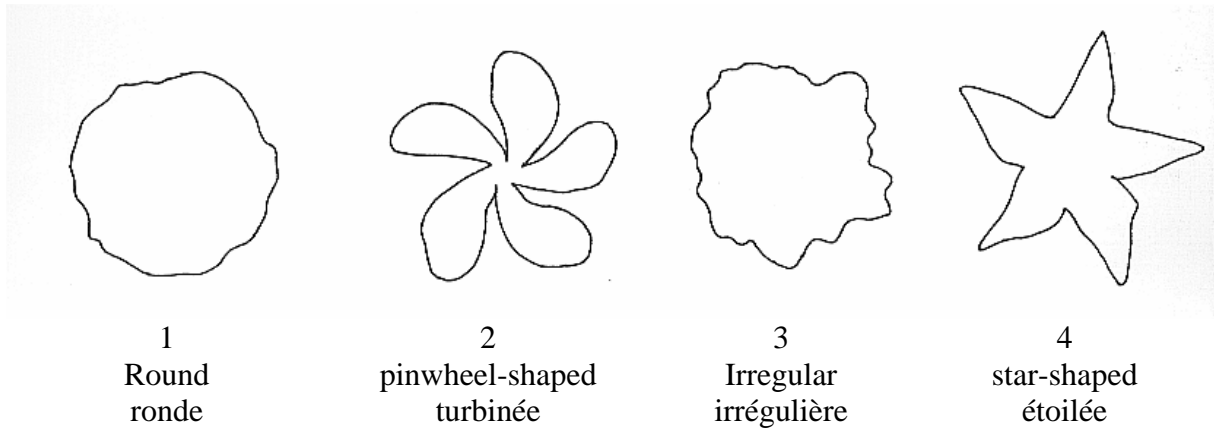
1
ellipsoid
ellipsoïde

2
ovoid
ovoïde

3
rhomboid
rhomboïde

4
globose
golbuleux

Ad/Add. 23 : Flower shape (view from above)/Fleur : forme (vue de dessus)

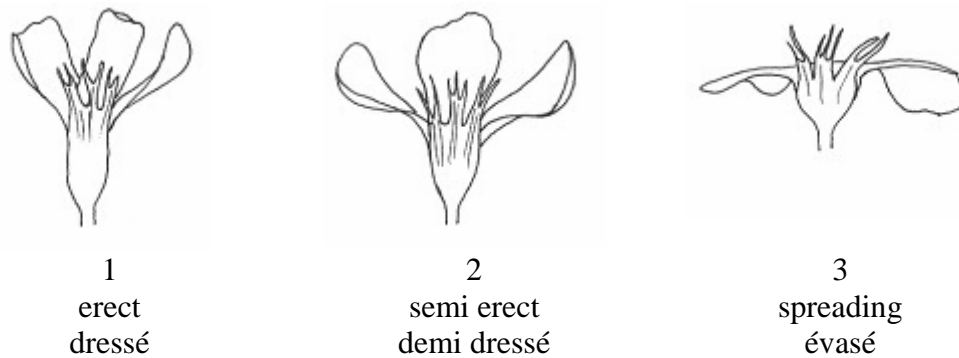


Ad/Add.24 : Flower : profile of terminal part of corolla (fully opened flower)

Petal: attitude of the upper part (fully opened flower excluding the tube)/

Pétale: profil de la partie supérieure (fleur complètement ouverte, hors tube)

Fleur : profil de la partie terminale de la corolle (fleur complètement ouverte)



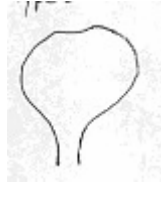
Ad/Add. 27 : Petal : predominant shape/Pétale : forme prédominante



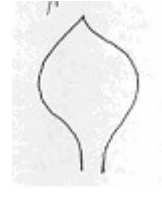
1
Type 1
Type 1



2
Type 2
Type 2



3
Type 3
Type 3



4
Type 4
Type 4

Ad/Add. 28 : Petal : margin of blade/Pétale : bord du limbe



1
entire
entier



2
dentate
denté

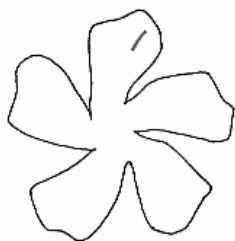


3
sinuate
sinué

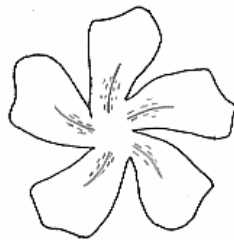


4
lobed
lobé

Ad/Add. 31 or simplify by distribution or check pls caractères Petal : pattern of streaks/Pétale : répartition des stries



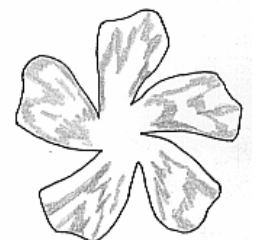
1
isolated
isolées



2
regularly distributed
distribuées régulièrement

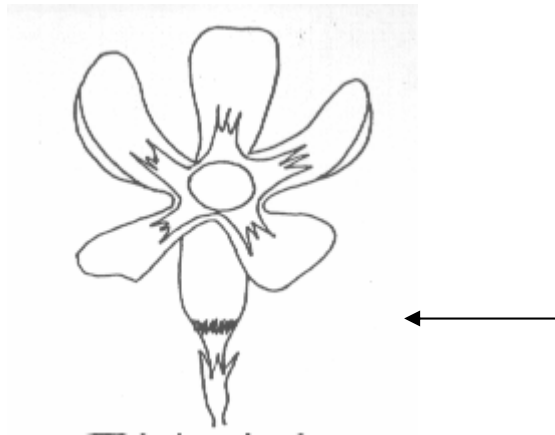


3
random
aléatoires



4
variegations
panachures

Ad/Add. 33 : Petal : colour of the lower side base/Pétale : couleur de la base de la face inférieure



Ad/Add. 37 : Corolla tube : diamètre/Tube de la corolle : diamètre



Ad/Add. 48 : Sepals : position in relation to corolla tube/Sépales : position par rapport au tube de la corolle



1
adpressed
appliqué



2
moderately separated
modérément écarté



3
strongly separated
fortement écarté

Ad/Add. 53 : Fruit : longitudinal axis/Fruit : forme prédominante



1
straight
droite

2
curved
courbée

3
sinusoidal
sinusoïdale

9. Literature

Eggenberger, Richard & Mary Helen., 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)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<input type="text" value="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:
<p>#4. Information on the breeding scheme and propagation of the variety</p> <p>4.1 Breeding scheme</p> <p>Variety resulting from:</p> <p>4.1.1 Crossing</p> <p>(a) controlled cross <input type="checkbox"/> [] (please state parent varieties)</p> <p>(b) partially known cross <input type="checkbox"/> [] (please state known parent variety(ies))</p> <p>(c) unknown cross <input type="checkbox"/> []</p> <p>4.1.2 Mutation <input type="checkbox"/> [] (please state parent variety)</p> <p>4.1.3 Discovery and development <input type="checkbox"/> [] (please state where and when discovered and how developed)</p> <p>4.1.4 Other <input type="checkbox"/> [] (please provide details)</p> <div data-bbox="454 1294 1150 1391" style="border: 1px solid black; height: 43px; width: 436px; margin: 10px auto;"></div>		

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

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)

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 Plant: growth type (1)			
dwarf		Petite Red, Petite Pink	1[]
normal		Alassio, Altini	2[]
5.2 Plant: growth habit (2)			
upright		Belle Hélène	1[]
semi upright		Fiesta Pink	2[]
spreading		Altini	3[]
5.3 Flower : color group (20)			
whitish		Petite white, Alsace, Mont blanc	1[]
yellow		Isle of Capri, Luteum Plenum	2[]
light orange		Angiolo Pucci	3[]
light orange pink		Tito Poggi, Hawaï, Mrs Roeding	4[]
light pink		Magaly, East End Pink	5[]
medium pin and dark pink		Alassio, Emilie, Roseum Plenum	6[]
light violet		Barcelona	7[]
magenta		JR 95-1, Cmmandant Barthélémy	8[]
red		Altini, Petite Red, Tamouré	9[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
Characteristics		Example Varieties	Note
5.4 Flower : whorls of petals			
(21) one		Emilie	1[]
two		Professeur Granel	2[]
three		Mrs Roeding	3[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<p>6. Similar varieties and differences from these varieties</p> <p><i>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.</i></p>			
Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Flower color</i>	<i>orange</i>	<i>orange red</i>
<p>Comments:</p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>#7. Additional information which may help in the examination of the variety</p> <p>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?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.2 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p> <p>7.3.1 Resistance to pests and diseases</p> <p>7.3.2 Conditions for examining the variety</p> <p>(a) in the open []</p> <p>(b) in pots []</p> <p>7.3.3 A representative color photograph of the variety should accompany the Technical Questionnaire.</p>		
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [] No []</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [] No []</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>		

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

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”.

.....

9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?

Yes []

(please provide details as specified by the Authority)

No []

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date