

TG/11/8(proj.1)
ORIGINAL: English

DATE: September 2, 2003

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

DRAFT

ROSE

(Rosa L.)

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

to be considered by the Technical Working Party for Ornamental Plants and Forest Trees at its thirty-sixth session, to be held in Niagara Falls, Canada, from September 22 to 26, 2003

Alternative Names:

Latin	English	French	German	Spanish	
Rosa L.	Rose	Rosier	Rose	Rosal	

ASSOCIATED DOCUMENTS

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

^{*}

^{*} These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

<u>PAGE</u>

TABLE OF CONTENTS

1.	Subject of these Test Guidelines	3
2.	Material Required	3
3.	Method of Examination	
3.1	Duration of Tests	
3.2	Testing Place	
3.3	Conditions for Conducting the Examination	4
3.4	Test Design	5
3.5	Number of Plants / Parts of Plants to be Examined	5
3.6	Additional Tests	6
4.	Assessment of Distinctness, Uniformity and Stability	6
4.1	Distinctness	6
4.2	Uniformity	6
4.3	Stability 7	
5.	Grouping of Varieties and Organization of the Growing Trial	7
6.	Introduction to the Table of Characteristics	8
6.1	Categories of Characteristics	8
6.2	States of Expression and Corresponding Notes	9
6.3	Types of Expression	9
6.4	Example Varieties	9
6.5	Legend 9	
7.	Table of Characteristics	10
8.	Explanations on the Table of Characteristics	24
8.1	Explanations covering several characteristics	24
8.2	Explanations for individual characteristics	24
9.	Literature	28
10	Technical Questionnaire	29

1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Rosa* L. of the family *Rosaceae*.

2. <u>Material Required</u>

- 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 Cut-flower types: for cut-flower types the material is to be supplied in the form of should be supplied in the form of young plants of commercial standard with their own roots unless the variety does not grow on its own roots, in which case plants and/or budwood of the variety would also be required.

Garden rose types: for garden rose types, climbing roses and shrubs, the material is to be supplied in the form of young plants, grafted on a frost-hardy rootstock or on their own roots.

Pot rose types: for pot rose types the material is to be supplied in the form of young plants, grafted on a rootstock or on their own roots.

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

<u>Cut-flower types</u>:

- varieties resulting from crossing: 9 plants
- varieties resulting from mutation: 18 plants

For garden rose types, pot rose types, climbing roses and shrubs: 6 plants

- 2.4 In cases where plants are supplied, the applicant should state the rootstock which has been used.
- 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 Duration of Tests

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

3.2 Testing Place

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

3.3 Conditions for Conducting the Examination

- 3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. For cut-flower types the plants should not be observed in the first flush of flowering. In particular, unless otherwise stated, all observations should be made at the time of full flowering.
 - 3.3.2 The following growing conditions are recommended for:

Cut-flower types:

- Planting time: at the beginning of February (Northern hemisphere)

- Soil: cocoafibre and ca. 3 liters of clay granulate for drainage

- Size of container: 9 liters

- Number of plants

per container: 3

- Temperature: day ca. 22 °C; night ca. 18 °C

- Light: no artificial lights, shading cloth: 450-550 watt/m²

- Air Humidity: ca. 65%-80%

Garden rose types:

- Planting time: from October until the end of March (Northern

hemisphere), directly at arrival of the sample

- Planting: in the open, 50x100 cm

- Soil: preferably clay, pH 5.5-6

Pot rose types:

- Planting time: at the beginning of March (Northern hemisphere)

- Substrate: well drained fertilized soil

- Size of container: 3 litre pots

- Number of plants per pot: 1 plant

- Temperature: min 18°C; max 22°C

- Light conditions: no artificial light, use of shading cloth

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 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.
- 3.4.2 Cut-flower types: in the case of cut-flower types each test should be designed to result in a total of at least 9 plants in case the variety is made by crossing, or 18 plants in case the variety is a mutation.
- 3.4.3 Garden and pot rose types: in the case of garden rose types and pot rose types each test should be designed to result in a total of 6 plants.

3.5 Number of Plants / Parts of Plants to be Examined

Cut-flower types: for cut-flower types all observations determined by measuring or counting should be made on 5 plants or parts taken from each of 5 plants. Unless otherwise indicated, all observations on a single plants should be made on at least 8 plants at the time of full flowering. Garden rose types and pot rose types; with garden rose types and pot rose types, all observations on single plants should be made on 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 minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

4.1.3 Clear Differences

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

4.2 Uniformity

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

4.4.2 Cut-flower types

4.4.2.1 Varieties resulting from Crossing.

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 9 plants, 1 off-type is allowed.

4.4.2.2 Varieties resulting from Mutation

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 18 plants, 1 off-type is allowed.

4.4.2.3 Garden rose and pot rose types

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, 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 tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness is aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with 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 determination of the color group is based on the color of the inner side of an exactly fully opened flower. The following have been agreed as useful grouping characteristics:

Flower: color group	1	white or near white	korcilmo	1
	-	green		2
	2, 3	yellow	korflapei	3
	4	yellow blend	olijboni	4
		(includes varieties that are primarily yellow, but yet show some tones of other hues)		
	5, 6	orange	prevano	5
	6, 7	orange blend	schretulp	6

	(includes varieties that are primarily orange, but yet show some tones of other hues)
8, 9	pink
10	pink blend

(includes varieties that are primarily pink, but yet show some tones of other hues)

	,		
11, 12, 13	red		9
14	red blend	tanjack	10
	(includes varieties that are primarily red, but yet show some tones of other hues)		
15	mauve	ruilav	11
	(varieties primarily lavender and purple)		

interlis

7 8

16 russet meicofum 12
(varieties primarily brown or tan in color)
- contrasty multicolored 13

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 Section 6.1.2
- (QL) Qualitative characteristic see Section 6.3
- (QN) Quantitative characteristic see Section 6.3
- (PQ) Pseudo-qualitative characteristic see Section 6.3
- (a) (e) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8, Section 8.2
- (C) Cut-flower types only
- (G) Garden types only.
- (P) Pot types only.

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 10 -

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.	(G)	Plant: growth t	ype				
		dwarf					1
		bed					2
		shrub					3
		ground cover					4
		climber					5
2.	(G) (P)	Plant: growth habit					
(+)		narrow bushy					1
PQ		bushy					3
		broad bushy					5
		flat bushy					7
		creeping					9
3.	(C)	Plant: height (during second flush)					
QN		short					3
		medium					5
		tall					7
4.		Young shoot: anthocyanin coloration					
QL	(a)	absent					1
		present					9

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 11 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
5.		Young shoot: intensity of anthocyanin coloration					
QN	(a)	very weak					1
		weak					3
		medium					5
		strong					7
		very strong					9
6.		Prickles					
QL		absent					1
		present					9
7.		Prickles: number (very small and hair-like prickles excluded)					
?		very few					1
		few					2
		medium					3
		many					4
		very many					5
8.		Varieties with large conspicuous prickles only: Prickle: predominant colo					
PQ		greenish					1
		yellowish					2
		reddish					3
		purplish					4

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 12 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
9.		Leaf: length					
QN	(b)	short					3
		medium					5
		long					7
10.		Leaf: width					
QN	(b)	narrow					3
		medium					5
		broad					7
11.		Leaf: intensity of green color					
QN	(b)	light					3
		medium					5
		dark					7
12.		Leaf: anthocyanin coloration	1				
QL	(b)	absent					1
		present					9
13.		Leaf: glossiness of upper side	f				
QN	(b)	absent or very weal	k				1
		weak					3
		medium					5
		strong					7
		very strong					9

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09

-	1	3	-

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
14.		Leaflet: undulation of margin					
QN	(b)	absent or very weak	ζ				1
		weak					3
		medium					5
		strong					7
		very strong					9
15.		Terminal leaflet: shape					
PQ	(b)	narrow elliptic					1
		elliptic					2
		ovate					3
		circular					4
16.	(C)	Terminal leaflet: shape of base					
(+)	(b)	wedge-shaped					1
PQ		obtuse					2
		rounded					3
		cordate					4
17.		Terminal leaflet: shape of apex					
PQ	(b)	acuminate					1
		acute					2
		obtuse					3
		rounded					4

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 14 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18.		Flowering shoot: number of flowers	ı				
QN	(d)	one or very few					1
		few					3
		medium					5
		many					7
		very many					9
19.		Flower bud: shape in longitudinal section	2				
PQ	(e)	elliptic					1
		ovate					2
		broad ovate					3
		obovate					4
		circular					5
20.	(G) (P)	Flower: type					
QL		single					1
		semi-double					2
		double					3

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 15 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
21.		Flower: color group (main division)					
PQ	(d)	white or near white					1
		green					2
		yellow					3
		yellow blend (includes varieties that are primarily yellow, but yet show some tones of some other hues)	,				4
		orange					5
		orange blend (includes varieties that are primarily orange, but yet show some tones of some other hues)					6
		pink					7
		pink blend (includes varieties that are primarily pink, but yet show some tones of some other hues)					8
		red					9
		red blend (includes varieties that are primarily red, but yet show some tones of some other hues)					10
		mauve (varieties primarily lavender and purple)					11
		russet (varieties primarily brown or tan in color)					12
		contrasty multicolored					13

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 16 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
22.		Semi-double and double flowers only: Flower: number of petals					
QN	(d)	very few					1
		few					3
		medium					5
		many					7
		very many					9
23.		Flower: diameter					
QN	(d)	very small					1
		small					3
		medium					5
		large					7
		very large					9
24.		Flower: view from above	1				
(+)	(d)	round					1
PQ		irregularly rounded	i				2
		star-shaped					3
25.		Flower: side view					
(+)	(d)	Still to be developed					
26.		Fragrance:					
QN		absent or very wea	k				1
		medium					2
		strong					3

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 17 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
27.		Sepal: extensions					
(+)	(d)	absent or very wear	k				1
QN		weak					3
		medium					5
		strong					7
		very strong					9
28.		Petals: opening of petals one by one					
QL		absent					1
		present					9
29.		Petal: shape					
PQ	(c)	elliptic					1
	(d)	transverse elliptic					2
		obovate					3
		obcordate					4
		rounded					5
30.		Petal: incisions					
QN	(c)	absent or very wear	k				1
	(d)	weak					3
		medium					5
		strong					7
		very strong					9

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 18 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
31.		Petal: reflexing of margin	•				
QN	(c)	absent or very wea	k				1
	(d)	weak					3
		medium					5
		strong					7
		very strong					9
32.		Petal: undulation					
QN	(c)	absent or very wea	k				1
	(d)	weak					3
		medium					5
		strong					7
		very strong					9
33.	(G)	Petal: size					
QN	(P)	very small					1
	(c)	small					3
	(d)	medium					5
		large					7
		very large					9
34.	(C)	Petal: length					
QN	(c)	very short					1
	(d)	short					3
		medium					5
		long					7
		very long					9

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 19 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
35.	(C)	Petal: width					
QN	(c)	very narrow					1
	(d)	narrow					3
		medium					5
		broad					7
		very broad					9
36.		Petal: number of colors on inner side (basal spot excluded)					
QL	(c)	one					1
	(d)	two					2
		more than two					3
37.		Single-colored varieties only: Petal: color distribution					
	(c)	lighter towards the base					1
	(d)	even					2
		lighter towards the top					3
38.		Petal: main color on the inner side (main color is with biggest surface area)	1				
PQ	(c) (d)	RHS Colour Chart (indicate reference number)					

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 20 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
39.		Varieties with 2 or more colors on inner side: Petal: secondary color (secondary color is with second biggest surface area)	S				
PQ	(c)	white					1
	(d)	green					2
		light yellow					3
		yellow					4
		orange					5
		pink					6
		red					7
		brown-red					8
		purple					9
40.		Varieties with more than 2 colors on inner side: Petal:tertiary color	<u>5</u>				
PQ	(c)	white					1
	(d)	green					2
		light yellow					3
		yellow					4
		orange					5
		pink					6
		red					7
		brown-red					8
		purple					9

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 21 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
41.		Multi-colored varieties only: Petal: position of secondary color on the inner side					
(+)	(c)	at the base					1
PQ	(d)	at the top					2
		at marginal zone					3
		as a flush					4
		as segments or stripes					5
		as speckles					6
42.		Petal: basal spot on the inner side					
QL	(c)	absent					1
	(d)	present					9
43.		Petal: size of basa spot on the inner side	1				
(+)	(c)	very small					1
QN	(d)	small					3
		medium					5
		large					7
		very large					9
44.		Petal: color of basal spot on the inner side					
(+)	(c)	white					1
PQ	(d)	greenish					2
		light yellow					3
		yellow					4
		orange					5

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09 - 22 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
45.		If clearly different from inner side only: Petal: main color on the outer side					
PQ	(c) (d)	RHS Colour Chart (indicate reference number)					
46.		Outer stamen: predominant color of filament					
PQ	(d)	white					1
		green					2
		light yellow					3
		yellow					4
		orange					5
		pink					6
		red					7
		brown-red					8
		purple					9
47.	(G)	Seed vessel: size (at petal fall)					
QN		very small					1
		small					3
		medium					5
		large					7
		very large					9
48. (+)	(G)	Hip: shape of longitudinal section					
PQ		funnel-shaped					1
		pitcher-shaped					2
		pear-shaped					3

TG/11/8(proj.1) Rose, Rosier, Rose, Rosal, 2003-02-09

	22	
-	7. 3	-

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
49.	(G)	Varieties grown for hips only: Hip color at mature stage	:				
PQ		yellow					1
		orange					2
		red					3
		brown					4
		black					5
50.	(G)	Time of beginning of flowering					
QN		very early					1
		early					3
		medium					5
		late					7
		very late					9
51.	(G)	Flowering: habit					
QL		once flowering					1
		twice flowering					2
		almost continuous flowering					3

8. <u>Explanations on the Table of Characteristics</u>

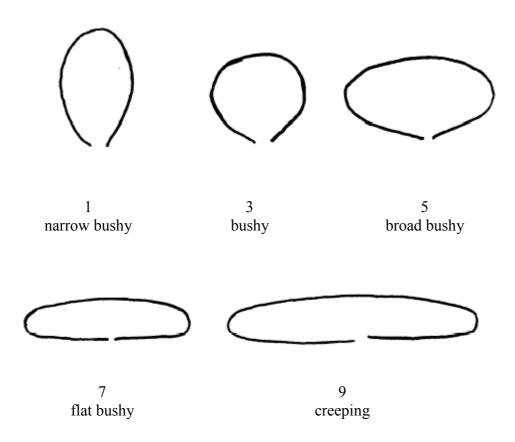
8.1 Explanations covering several characteristics

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

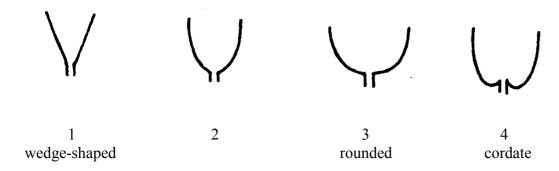
- (a) All observations on the young shoot should be made on the distal third of a ca. 20 cm long shoot.
- (b) All observations on the leaves (incl. leaflet) should be made on the middle third of the stem.
- (c) All observations on the petal should be made on a petal from ca. 3rd whorl of the outer side.
- (d) Unless otherwise indicated, all observations on the flower should be made on an exactly fully opened flower.
- (e) Unless otherwise indicated all observations on the flower bud should be made just before separation of sepals.

8.2 Explanations for individual characteristics

Ad. 2: Plant: growth habit



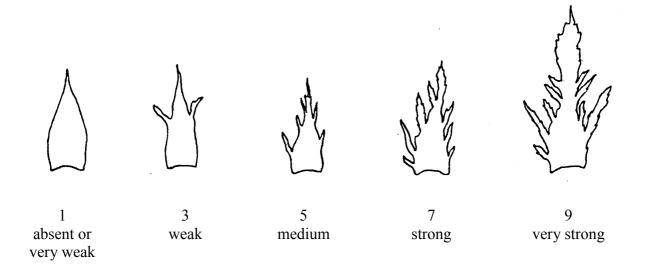
Ad. 16: Terminal leaflet: shape of base



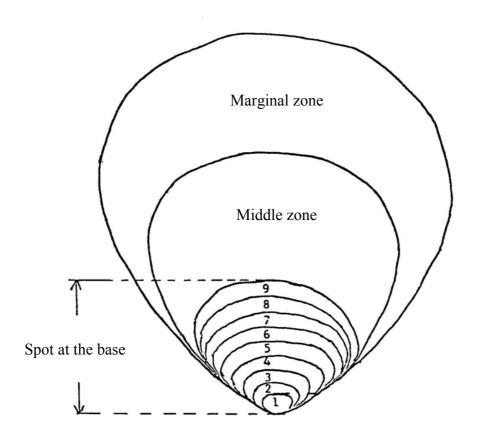
Ad. 24: Flower: view from above: to be developed

Ad. 25: Flower: side view: to be developed

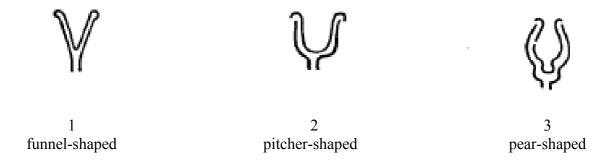
Ad. 27: Sepal: extensions



Ad. 43: Petal: size of basal spot on the inner side



Ad. 48: Hip: shape of longitudinal section



9. <u>Literature</u>

10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIR	E	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 Latin Name	Ros	sa L.						
1.2 Common Name	Ro	se						
2. Applicant								
Name								
Address								
Telephone No.								
Fax No.								
E-mail address								
Breeder (if different from applica	nt)							
L								
3. Proposed denomination and breeder's reference								
Proposed denomination (if available)								
Breeder's reference								

<u>ECHNI</u>	CAL Q	UESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:
. Info	rmation	on the breeding sch	eme and propagation	of the variety
4.1	Breed	ing scheme		
	Variet	ty resulting from:		
	4.1.1	Crossing		
		(a) controlled co		[]
		(b) partially kno		[]
		(please state (c) totally unknown	known parent variety own cross	(ies)) []
	4.1.2	Mutation (please state paren	ıt variety)	[]
	4.1.3	Discovery	e, when and how deve	[]
	4.1.4	Other (please provide de	tails)]	[]
4.2	Metho	od of propagating the	e variety	
	(a)	cuttings		[]
	(b)	in vitro propagation		[]
	(c)	other (please provide	e details)	[]

1				
		Characteristics	Example Varieties	Note
	5.1	Growth type		
	(1)	dwarf		1[]
	(G)	bed		2[]
		shrub		3[]
		ground cover		4[]
		climber		5[]

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

5.2	Flower: color group	
(21)	white or near white	1[]
	green	2[]
	yellow	3[]
	yellow blend (includes varieties that are primarily yellow, but yet show some tones of some other hues)	4[]
	orange	5[]
	orange blend (includes varieties that are primarily orange, but yet show some tones of some other hues)	6[]
	pink	7[]
	pink blend (includes varieties that are primarily pink, but yet show some tones of some other hues)	8[]
	red	9[]
	red blend (includes varieties that are primarily red, but yet show some tones of some other hues)	10[]
	mauve (varieties primarily lavender and purple)	11[]
	russet (varieties primarily brown or tan in color)	12[]
	contrasty multicolored	13[]

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

6. Similar varieties and differences from these varieties

Please use the table, and space provided for comments, below 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	Characteristic(s) in	Describe the expression	Describe the expression
variety(ies) similar to	which your candidate	of the characteristic(s)	of the characteristic(s)
your candidate variety	variety differs from the	for the similar	for your candidate
	similar variety(ies)	variety(ies)	variety
Example	Plant: height		
		e.g. short	tall
Comments:			

TEC	HNICAL	QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:
7.	Additional information which may help in the examination of the variety			
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?			
	Yes	[]	No []	
	(If yes,]	please provide details)		
7.2	Special	conditions for the exam	nination of the variety	
	7.2.1	Are there any special examination?	al conditions for grov	wing the variety or conducting the
		Yes []	No []	
	7.2.2	If yes, please give deta	ails:	
		Use:		
		- Grown in the open - Grown under glass	s or otherwise sheltere	d
	7.2.2.1 In the open:			
		patiohanging basketrootstockcut-berry production	on	
		7.2.2.2 Under glass or	otherwise sheltered:	
		cut-flower productpot rose	tion	
7.3	Other in	nformation		

TG/11/8(proj.1) Rose, 2003-09-02 - 34 -

TECI	HNIC	AL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:
8.	3. 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?	
		Yes []	No []	
	If the	answer to (b) is yes, plea	ase attach a copy of the	authorization.
9.	Infor	mation on plant material	to be examined.	
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. vii	rus, bacteria, phytoplas	ma) Yes [] No []
	(b)	Chemical treatment (e.g.	growth retardant or pe	esticide) Yes [] No []
	(c)	Tissue culture		Yes [] No []
	(d)	Other factors		Yes [] No []
	Pleas	e provide details of where	e you have indicated "y	/es".

TG/11/8(proj.1) Rose, 2003-09-02 - 35 -

TECHNICAL QUESTION	NNAIRE	Page {x} of {y}	Reference Number:
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]