



TG/301/1
 ORIGINAL: English
 DATE: 2014-04-09

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

<p>LILAC</p> <p>UPOV Code: SYRIN</p> <p><i>Syringa</i> L.</p>

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Syringa</i> L.	Lilac	Lilas	Flieder	Lila

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.]

<u>TABLE OF CONTENTS</u>	<u>PAGE</u>
1. SUBJECT OF THESE TEST GUIDELINES.....	3
2. MATERIAL REQUIRED.....	3
3. METHOD OF EXAMINATION	3
3.1 NUMBER OF GROWING CYCLES	3
3.2 TESTING PLACE	3
3.3 CONDITIONS FOR CONDUCTING THE EXAMINATION	3
3.4 TEST DESIGN	3
3.5 ADDITIONAL TESTS.....	3
4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY	4
4.1 DISTINCTNESS	4
4.2 UNIFORMITY	5
4.3 STABILITY.....	5
5. GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL.....	5
6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS.....	5
6.1 CATEGORIES OF CHARACTERISTICS	5
6.2 STATES OF EXPRESSION AND CORRESPONDING NOTES	6
6.3 TYPES OF EXPRESSION	6
6.4 EXAMPLE VARIETIES.....	6
6.5 LEGEND	7
7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES	8
8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS.....	135
8.1 EXPLANATIONS COVERING SEVERAL CHARACTERISTICS	15
8.2 EXPLANATIONS FOR INDIVIDUAL CHARACTERISTICS	135
9. LITERATURE	23
10. TECHNICAL QUESTIONNAIRE.....	24

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Syringa* L..

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 plants, capable of flowering and expressing all relevant characteristics of the variety during the first growing cycle.

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

9 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 a single growing cycle.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.3.2 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight 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. The color chart and version used should be specified in the variety description.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 9 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 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

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

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

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

4.1.4 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 5 plants or parts taken from each of 5 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

- MG: single measurement of a group of plants or parts of plants
- MS: measurement of a number of individual plants or parts of plants
- VG: visual assessment by a single observation of a group of plants or parts of plants
- VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 *Uniformity*

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

4.2.2 For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 9 plants, 1 off-type is allowed.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

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

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

5.3 The following have been agreed as useful grouping characteristics:

- (a) Leaf: shape (characteristic 9)
- (b) Flower: type (characteristic 19)
- (c) Corolla lobe: main color of inner side (characteristic 28)
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: pink
 - Gr. 4: purple
 - Gr. 5: violet

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. 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

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

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

6.3 Types of Expression

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

6.4 Example Varieties

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

6.5 *Legend*

- | | | |
|----------------|------------------------------------------------------------------|---------------------|
| (*) | Asterisk characteristic | – see Chapter 6.1.2 |
| QL | Qualitative characteristic | – see Chapter 6.3 |
| QN | Quantitative characteristic | – see Chapter 6.3 |
| PQ | Pseudo-qualitative characteristic | – see Chapter 6.3 |
| MG, MS, VG, VS | | – see Chapter 4.1.5 |
| (a)-(b) | 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
1. (+)	VG Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: hábito de crecimiento		
QN	upright	dressé	aufrecht	erguido		1
	upright to spreading	dressé à étalé	aufrecht bis breitwüchsig	erguido a extendido		2
	spreading	étalé	breitwüchsig	extendido		3
2. (+)	VG Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
QN	short	basse	niedrig	baja	Palibin	3
	medium	moyenne	mittel	media	Excellens, Xiang Xue	5
	tall	haute	hoch	alta	Luo Lan Zi	7
3. (+)	VG Plant: density of branches	Plante : densité des ramifications	Pflanze: Dichte der Zweige	Planta: densidad de las ramas		
QN	sparse	lâche	locker	laxa		1
	medium	moyenne	mittel	media		3
	dense	dense	dicht	densa		5
4. (+)	VG Plant: number of inflorescences	Plante : nombre d'inflorescences	Pflanze: Anzahl Blütenstände	Planta: número de inflorescencias		
QN	few	petit	gering	bajo	Chang Tong Bai, Zi Yun	3
	medium	moyen	mittel	medio	Luo Lan Zi	5
	many	grand	hoch	alto	Si Ji Lan	7
5. (+)	VG One-year-old shoot: color	Rameau d'un an : couleur	Einjähriger Trieb: Farbe	Rama de un año: color		
PQ	grey brown	brun grisâtre	graubraun	marrón grisáceo	Ami Schott	1
	light brown	brun clair	hellbraun	marrón claro	Maiden's Blush	2
	medium brown	brun moyen	mittelbraun	marrón medio	Fantasy	3
	red brown	brun rougeâtre	rotbraun	marrón rojizo	Agnes Smith	4
6. (*) (+)	VG Leaf: type	Feuille : type	Blatt: Typ	Hoja: tipo		
QL	(a) simple	simple	einfach	simple	Luo Lan Zi	1
	compound	composée	zusammengesetzt	compuesta		2
7. (+)	VG <u>Only varieties with leaf type: simple:</u> Leaf: depth of sinus	<u>Seulement variétés avec type de feuille : simple :</u> Feuille : profondeur du sinus	<u>Nur Sorten mit Blatttyp: einfach:</u> Blatt: Tiefe der Einbuchtungen	<u>Solo variedades con tipo de hoja: simple:</u> Hoja: profundidad de los senos		
QN	(a) absent or very shallow	absent ou très peu profond	fehlend oder sehr flach	ausentes o muy poco profundos	Luo Lan Zi	1
	shallow	peu profond	flach	poco profundos	Alba-plena	2
	medium	moyen	mittel	medios		3
	deep	profond	tief	profundos	Kabul	4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
8.	VG	Only varieties with leaf type: simple:	Seulement variétés avec type de feuille : simple :	Nur Sorten mit Blatttyp: einfach:	Solo variedades con tipo de hoja: simple:	
(+)		Leaf: number of sinuses	Feuille : nombre de sinus	Blatt: Anzahl Einbuchtungen	Hoja: número de senos	
PQ	(a)	none	aucun	keine	ausentes	1
		one	un	eine	uno	2
		two	deux	zwei	dos	3
		more than two	plus de deux	mehr als zwei	más de dos	4
9.	VG	Leaf: shape	Feuille : forme	Blatt: Form	Hoja: forma	
(*)						
(+)						
PQ	(a)	broad ovate	ovale large	breit eiförmig	oval ancha	1
		medium ovate	ovale moyenne	mittel eiförmig	oval media	2
		narrow ovate	ovale étroite	schmal eiförmig	oval estrecha	3
		medium elliptic	elliptique moyenne	mittel elliptisch	elíptica media	4
		narrow elliptic	elliptique étroite	schmal elliptisch	elíptica estrecha	5
		obovate	obovale	verkehrt eiförmig	oboval	6
10.	VG	Leaf: shape of base	Feuille : forme de la base	Blatt: Form der Basis	Limbo: forma de la base	
(+)						
PQ	(a)	cuneate	cunéiforme	keilförmig	cuneada	1
		truncate	tronquée	abgestumpft	truncada	2
		cordate	cordiforme	herzförmig	cordiforme	3
11.	VG	Leaf: main color of upper side	Feuille : couleur principale de la face supérieure	Blatt: Hauptfarbe der Oberseite	Hoja: color principal del haz	
(*)						
(+)						
PQ	(a)	yellow	jaune	gelb	amarillo	Aurea, Lutens 1
		yellowish green	vert jaunâtre	gelblich grün	verde amarillento	Beauty of Heaven 2
		light green	vert clair	hellgrün	verde claro	3
		medium green	vert moyen	mittelgrün	verde medio	Marengo, Martha 4
		dark green	vert foncé	dunkelgrün	verde oscuro	5
12.	VG	Leaf: secondary color of upper side	Feuille : couleur secondaire de la face supérieure	Blatt: Sekundärfarbe der Oberseite	Hoja: color secundario del haz	
(*)						
(+)						
PQ	(a)	none	aucune	keine	ninguna	1
		white	blanc	weiß	blanco	Chantilly Lace 2
		yellow	jaune	gelb	amarillo	Golden Eclipse 3
		light green	vert clair	hellgrün	verde claro	4

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13.	VG	Flower bud: color	Bourgeon floral : couleur	Blütenknospe: Farbe	Botón floral: color		
	(+)						
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)		
14.	VG	Inflorescence: attitude	Inflorescence : port	Blütenstand: Haltung	Inflorescencia: porte		
	(+)						
PQ	(b)	upright	dressé	aufrecht	erecto	Prince Notger	1
		semi-upright	demi-dressé	halbaufrecht	semierecto	Marie Frances	2
		drooping	retombant	hängend	colgante	Nodding	3
15.	VG/ MG	Inflorescence: length	Inflorescence : longueur	Blütenstand: Länge	Inflorescencia: longitud		
	(*) (+)						
QN	(b)	short	courte	kurz	pequeña	Si Ji Lan	1
		medium	moyenne	mittel	media	Ethiopia, Xiang Xue	3
		long	longue	lang	larga		5
16.	VG	Inflorescence: shape	Inflorescence : forme	Blütenstand: Form	Inflorescencia: forma		
	(*) (+)						
QN	(b)	conic	conique	kegelförmig	cónica	Chang Tong Bai, Erzherzog Johann	1
		conic to cylindric	conique à cylindrique	kegelförmig bis zylindrisch	cónica a cilíndrico		2
		cylindric	cylindrique	zylindrisch	cilíndrico	Night	3
17.	VG	Inflorescence: density of flowers	Inflorescence : densité de fleurs	Blütenstand: Dichte der Blüten	Inflorescencia: densidad de flores		
	(*) (+)						
QN	(b)	very sparse	très lâche	sehr locker	muy laxa		1
		sparse	lâche	locker	laxa	Bretschneiden, Chang Tong Bai	3
		medium	moyenne	mittel	media	Olive May Cummings	5
		dense	dense	dicht	densa	Buffon	7
		very dense	très dense	sehr dicht	muy densa	Dawn	9
18.	VG	Flower: fragrance	Fleur : parfum	Blüte: Duft	Flor: fragancia		
	(b)	absent or weak	absent ou faible	fehlend oder schwach	ausente o débil	Luo Lan Zi	1
		moderate	modéré	mäßig	moderada	Chang Tong Bai	2
		strong	fort	stark	fuerte	Xiang Xue	3
19.	VG	Flower: type	Fleur : type	Blüte: Typ	Flor: tipo		
	(*) (+)						
QL	(b)	single	simple	einfach	simple	Chang Tong Bai, Edith Braun	1
		double	double	gefüllt	doble	Magellan	2

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20.	VG	Flower: diameter of corolla	Fleur : diamètre de la corolle	Blüte: Durchmesser der Krone	Flor: diámetro de la corola	
QN	(b)	small	petit	klein	pequeño	Si Ji Lan 1
		medium	moyen	mittel	medio	Wan Hua Zi 3
		large	grand	groß	grande	Agincourt Beauty 5
21. (*) (+)	VG	<u>Only varieties with flower type: double:</u> Flower: number of corolla lobes	<u>Seulement variétés avec type de fleur : double :</u> Fleur : nombre de lobes de corolle	<u>Nur Sorten mit Blütentyp: gefüllt:</u> Blüte: Anzahl Kronlappen	<u>Solo variedades con tipo de flor: doble:</u> Flor: número de lóbulos de la corola	
QN	(b)	few	petit	gering	bajo	Magellan 1
		medium	moyen	mittel	medio	Fritz 3
		many	grand	hoch	alto	Leon Gambetta Luo Lan Zi 5
22. (*) (+)	VG	<u>Only varieties with flower type: double:</u> Flower: distance between whorls	<u>Seulement variétés avec type de fleur : double :</u> Fleur : distance entre verticilles	<u>Nur Sorten mit Blütentyp: gefüllt:</u> Blüte: Abstand zwischen den Wirteln	<u>Solo variedades con tipo de flor: doble:</u> Flor: distancia entre verticilos	
QN	(b)	short	courte	klein	corta	Jewel, Luo Lan Zi 1
		medium	moyenne	mittel	media	2
		long	longue	groß	larga	Anne Tighe 3
23. (*) (+)	VG	Corolla lobe: attitude	Lobe de la corolle : port	Kronlappen: Haltung	Lóbulo de la corola: porte	
PQ	(b)	semi-erect	demi-dressé	halbaufrecht	semierecto	Minuet 1
		horizontal	horizontal	horizontal	horizontal	Excel 2
		recurved	recourbé	zurückgebogen	recurvado	Fraser 3
24. (+)	VG	Corolla lobe: shape	Lobe de la corolle : forme	Kronlappen: Form	Lóbulo de la corola: forma	
PQ	(b)	broad elliptic	elliptique large	breit elliptisch	elíptica ancha	1
		narrow elliptic	elliptique étroit	schmal elliptisch	elíptica estrecha	2
		obovate	obovale	verkehrt eiförmig	oboval	3
25. (*) (+)	VG	Corolla lobe: undulation	Lobe de la corolle : ondulation	Kronlappen: Wellung	Lóbulo de la corola: ondulación	
QN	(b)	absent or weak	absente ou faible	fehlend oder schwach	ausente o débil	Heather, Alba Grandiflora 1
		medium	moyenne	mittel	media	2
		strong	forte	stark	fuerte	Edith Braun, Wan Hua Zi 3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
26.	VG	Corolla lobe: incurving of margin	Lobe de la corolle : courbure du bord	Kronlappen: Einrollen des Randes	Lóbulo de la corola: curvado del borde hacia arriba		
QN	(b)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Helena Agathe Keessen	1
		weak	faible	gering	débil	Carley	2
		medium	moyenne	mittel	medio	Edith Braun, Frank Paterson	3
		strong	forte	stark	fuerte	Bailbelle	4
27.	VG	Corolla lobe: shape of apex	Lobe de la corolle : forme du sommet	Kronlappen: Form der Spitze	Lóbulo de la corola: forma del ápice		
PQ	(b)	acuminate	acuminé	zugespitzt	acuminado		1
		acute	pointu	spitz	agudo		2
		rounded	arrondi	abgerundet	redondeado		3
		emarginate	émarginé	eingekerbt	emarginado		4
28.	VG	Corolla lobe: main color of inner side	Lobe de la corolle : couleur principale de la face interne	Kronlappen: Hauptfarbe der Innenseite	Lóbulo de la corola: color principal de la cara interna		
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)		
29.	VG	Corolla lobe: secondary color of inner side	Lobe de la corolle : couleur secondaire de la face interne	Kronlappen: Sekundärfarbe der Innenseite	Lóbulo de la corola: color secundario de la cara interna		
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)		
30.	VG	Corolla tube: color of outer side	Tube de la corolle : couleur de la face externe	Kronröhre: Farbe der Außenseite	Tubo de la corola: color de la cara externa		
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)		
31.	VG	Anther: color	Anthère : couleur	Anthere: Farbe	Antera: color		
QL	(b)	yellow	jaune	gelb	amarilla	Audrey, Wan Hua Zi	1
		purple	pourpre	purpurn	púrpura	Si Ji Lan	2
32.	MG	Time of beginning of flowering	Époque de début de la floraison	Zeitpunkt des Blühbeginns	Época de comienzo de la floración		
QN		early	précoce	früh	temprana	Chang Tong Bai	3
		medium	moyenne	mittel	media	Leonore	5
		late	tardive	spät	tardía	Ivory Silk	7

8. Explanations on the Table of Characteristics

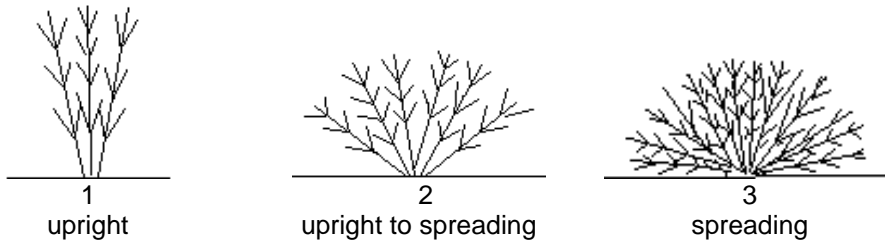
8.1 *Explanations covering several characteristics*

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

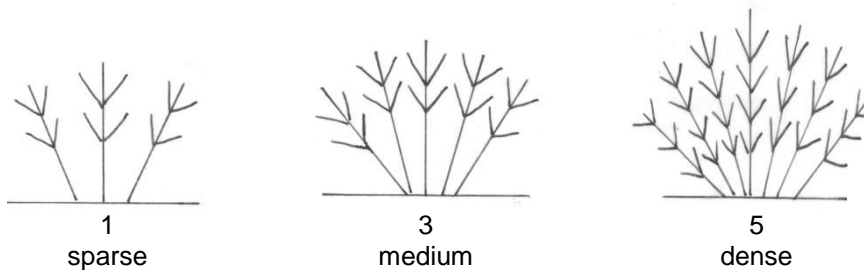
- (a) Observations on the leaf should be made on leaves from the middle part of the shoot on the current year's growth.
- (b) Observations on the inflorescence should be made on inflorescences from the middle to the upper part of the shoots when 50% of the inflorescences have all flowers open. Observations on the flower should be made on flowers from the middle part of the inflorescence. Observations on the corolla lobe of double flowers should be made on the lobes of the second whorl from the top of the flower.

8.2 *Explanations for individual characteristics*

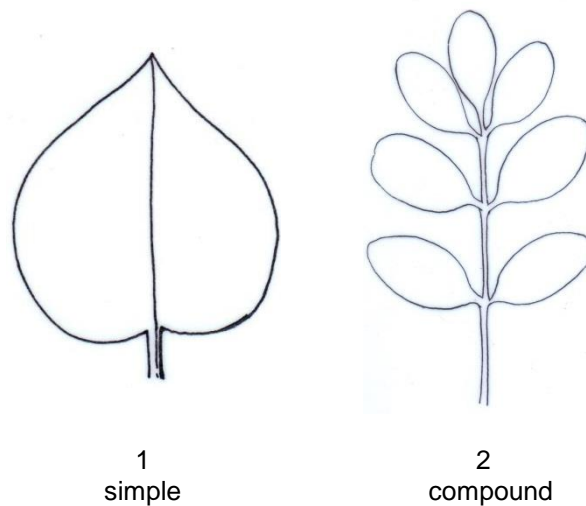
Ad. 1: Plant: growth habit



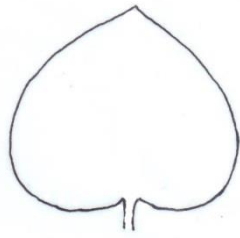
Ad. 3: Plant: density of branches



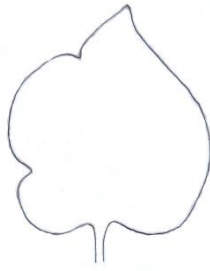
Ad. 6: Leaf: type



Ad. 7: Only varieties with leaf type: simple: Leaf: depth of sinus



1
absent or very shallow



2
shallow

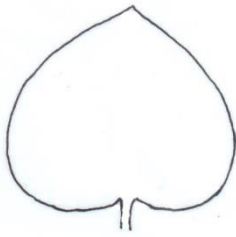


3
medium



4
deep

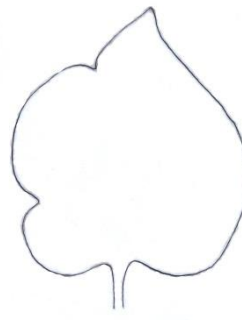
Ad. 8: Only varieties with leaf type: simple: Leaf: number of sinuses



1
none



2
one



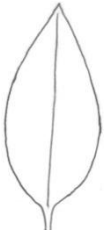


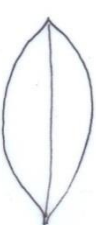

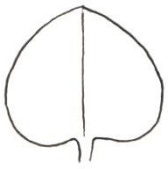
3
two



4
more than two

Ad. 9: Leaf: shape

For compound leaves, the imaginary outline should be observed.

		← broadest part →		
		below middle	at middle	above middle
↑ narrow (high)	width (ratio length/width)	 3 narrow ovate	 5 narrow elliptic	
		 2 medium ovate	 4 medium elliptic	 6 obovate
		 1 broad ovate		
↓ broad (low)				

Ad. 10: Leaf: shape of base

For compound leaves, the terminal leaflet should be observed.



1
cuneate



2
truncate



3
cordate

Ad. 11: Leaf: main color of upper side

Ad. 12: Leaf: secondary color of upper side

The main color is the color with the largest surface area. The secondary color (if present) is the color with the second largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color.

Ad. 13: Flower bud: color

Observation on the flower bud should be made before opening.

Ad. 14: Inflorescence: attitude



1
upright



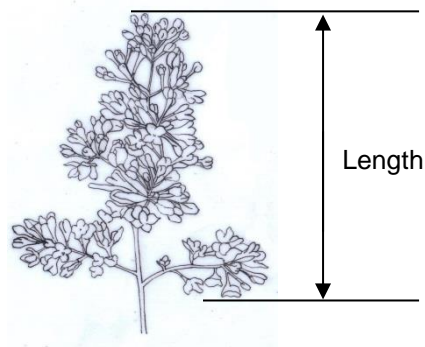
2
semi-upright



3
drooping

Ad. 15: Inflorescence: length

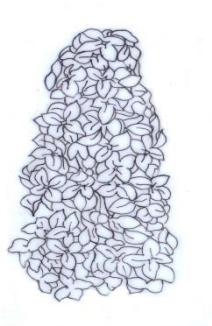
The natural length of an inflorescence should be observed from the lowest hanging flower to the top flower when the inflorescence is in full bloom.



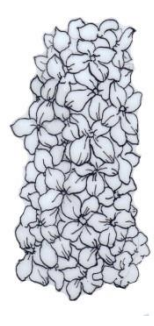
Ad. 16: Inflorescence: shape



1
conic



2
conic to cylindric



3
cylindric

Ad. 17: Inflorescence: density of flowers



1
very sparse



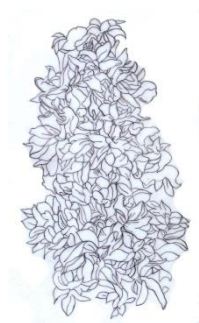
3
sparse



5
medium

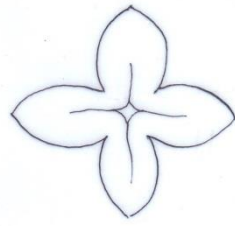


7
dense

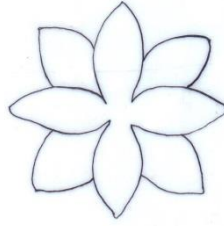


9
very dense

Ad. 19: Flower: type



1
single

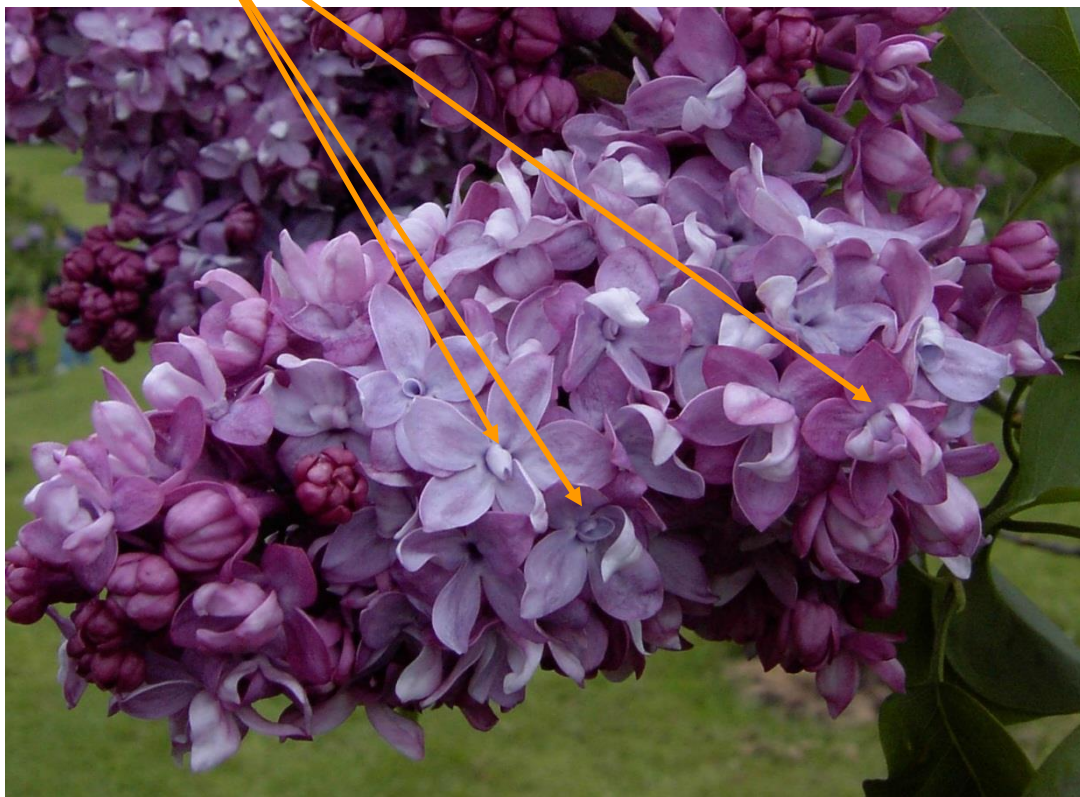
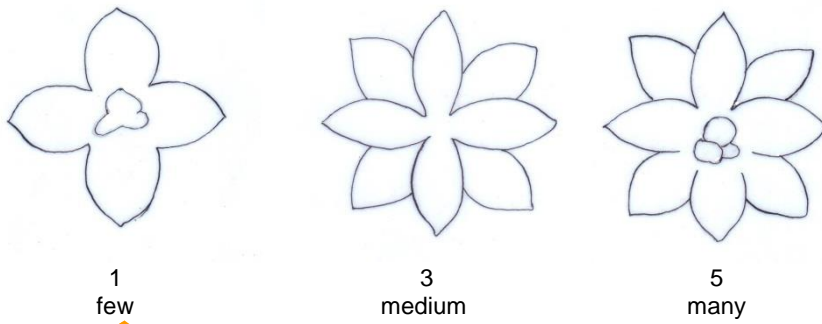


2
double



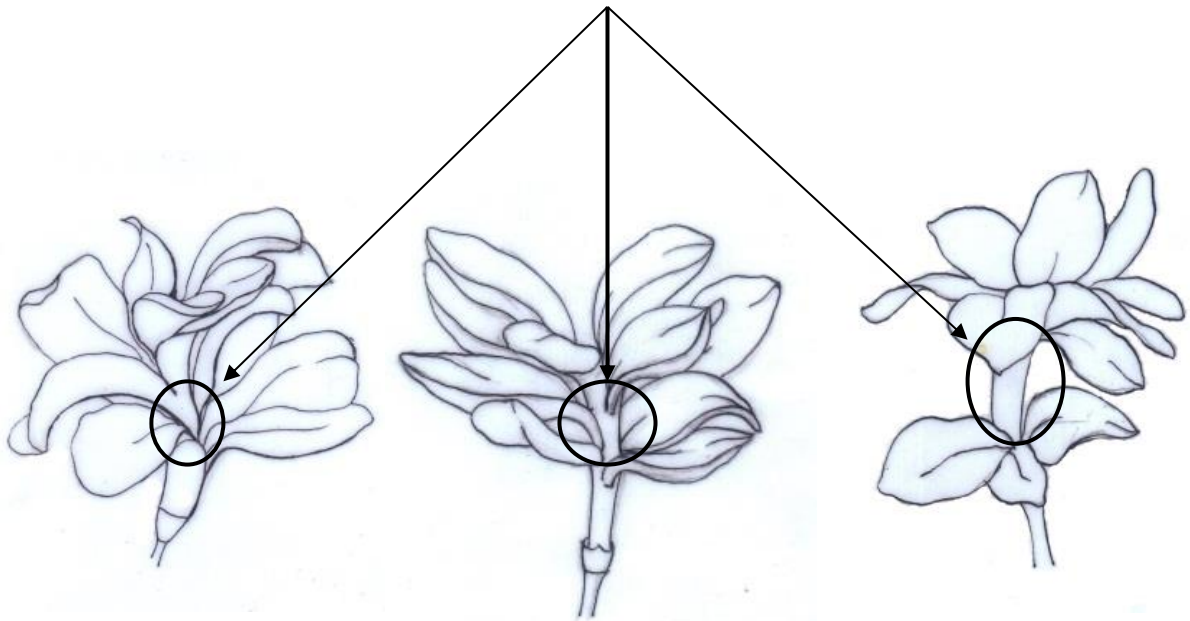
Ad. 21: Only varieties with flower type: double: Flower: number of corolla lobes

In state 1 "few", the inner lobes are not completely unfolded.



Ad. 22: Only varieties with flower type: double: Flower: distance between whorls

Distance between whorls



1
short

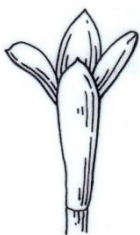


2
medium

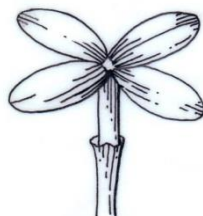


3
long

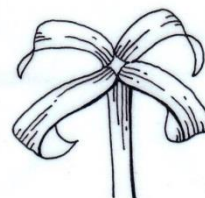
Ad. 23: Corolla lobe: attitude



1
semi-erect



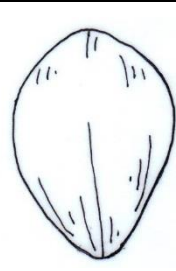


2
horizontal

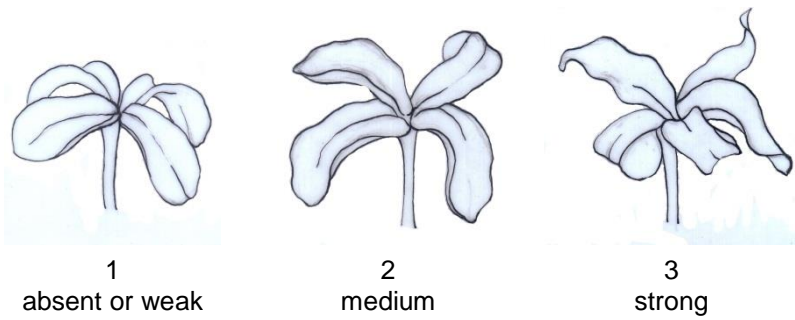


3
recurved

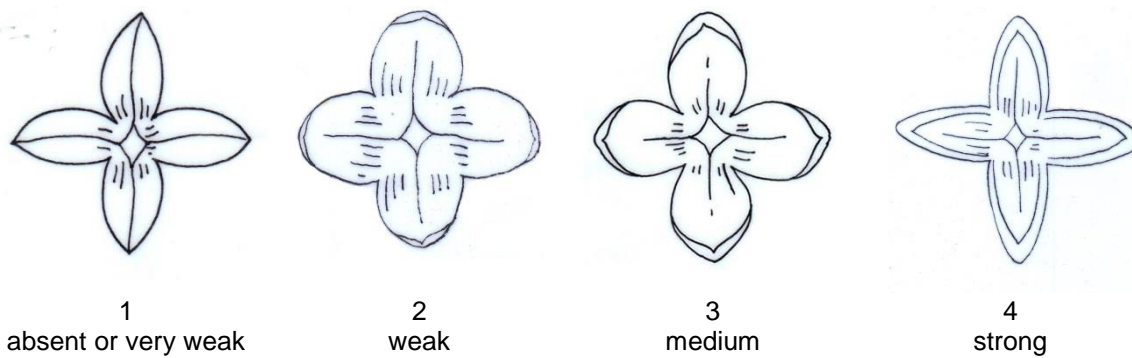
Ad. 24: Corolla lobe: shape

		← broadest part →	
		at middle	above middle
narrow (high) → width (ratio length/width) ← broad (low)	 2 narrow elliptic		
	 1 broad elliptic	 3 obovate	

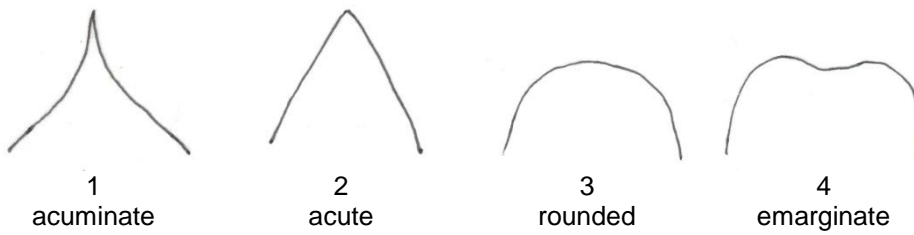
Ad. 25: Corolla lobe: undulation



Ad. 26: Corolla lobe: incurving of margin



Ad. 27: Corolla lobe: shape of apex



Ad. 28: Corolla lobe: main color of inner side

Ad. 29: Corolla lobe: secondary color of inner side

The main color is the color with the largest surface area. The secondary color (if present) is the color with the second largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color.

Ad. 32: Time of beginning of flowering

The time of beginning of flowering is when 5% of flowers on all plants are open.

9. Literature

Jone, FR., Fiala, L., 1988: Lilacs- The Genus *Syringa*. Timber Press, Inc. Oregon, US

Harris, J. F., Woolf Harris, M., 1994: Plant identification terminology: An Illustrated Glossary. Spring Lake Publishing. Payson, Arizona, US

Borzan, Ž., Holetich, C.D., Borkovic, S. (Editor), 2014: Lilacs photograph library [DVD]. HR, W.S.P.d.o.o.

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 Genus		
1.1.1 Botanical name	<input type="text" value="Syringa L."/>	
1.1.2 Common name	<input type="text" value="Lilac"/>	
1.2 Species		
1.2.1 Botanical name (please complete)	<input type="text"/>	
1.2.2 Common name	<input type="text"/>	
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:
-------------------------	-----------------	-------------------

#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)

(.....) x (.....)
female parent male parent

(b) partially known cross []
(please state known parent variety(ies))

(.....) x (.....)
female parent male parent

(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)

.....

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:
-------------------------	-----------------	-------------------

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings
- (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: number of inflorescences (4)		
very few		1[]
very few to few		2[]
few	Chang Tong Bai, Zi Yun	3[]
few to medium		4[]
medium	Luo Lan Zi	5[]
medium to many		6[]
many	Si Ji Lan	7[]
many to very many		8[]
very many		9[]
5.2 Leaf: shape (9)		
broad ovate		1[]
medium ovate		2[]
narrow ovate		3[]
medium elliptic		4[]
narrow elliptic		5[]
obovate		6[]
5.3 Inflorescence: length (15)		
short	Si Ji Lan	1[]
short to medium		2[]
medium	Ethiopia, Xiang Xue	3[]
medium to long		4[]
long		5[]

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

Characteristics	Example Varieties	Note
5.4 Inflorescence: shape (16)		
conic	Chang Tong Bai, Erzherzog Johann	1[]
conic to cylindric		2[]
cylindric	Night	3[]
5.5 Inflorescence: density of flowers (17)		
very sparse		1[]
very sparse to sparse		2[]
sparse	Bretschneiden, Chang Tong Bai	3[]
sparse to medium		4[]
medium	Olive May Cummings	5[]
medium to dense		6[]
dense	Buffon	7[]
dense to very dense		8[]
very dense	Dawn	9[]
5.6 Flower: type (19)		
single	Chang Tong Bai, Edith Braun	1[]
double	Magellan	2[]
5.7 Corolla lobe: incurving of margin (26)		
absent or very weak	Helena Agathe Keessen	1[]
weak	Carley	2[]
medium	Edith Braun, Frank Paterson	3[]
strong	Bailbelle	4[]

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

Characteristics	Example Varieties	Note
5.8 i (28) Corolla lobe: main color of inner side RHS Colour Chart (indicate reference number)		
5.8 ii (28) Corolla lobe: main color of inner side		
white		1[]
yellow		2[]
pink		3[]
purple		4[]
violet		5[]
5.9 i (29) Corolla lobe: secondary color of inner side RHS Colour Chart (indicate reference number)		
5.9 ii (29) Corolla lobe: secondary color of inner side		
white		1[]
yellow		2[]
pink		3[]
purple		4[]
violet		5[]

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 similar variety(ies)	Describe the expression of the characteristic(s) for the characteristic(s) for your candidate variety
<i>Example</i>	<i>Corolla lobe: main color of inner side</i>	<i>purple</i>	<i>pink</i>

Comments:

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

Yes [] No []

(If yes, please provide details)

7.3 Other information

7.3.1 Main use

- | | | |
|-----|--------------|-----|
| (a) | garden plant | [] |
| (b) | pot plant | [] |
| (c) | cut-flower | [] |
| (d) | other | [] |
- (please provide details)

7.3.2 A representative color image 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.

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

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".

.....

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]