



TG/59/7(proj.1)
ORIGINAL: English
DATE: 2006-08-02

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
 GENEVA

DRAFT

LILY

UPOV Code: LILIU

Lilium L.

*

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from the Netherlands

to be considered by the

*Technical Working Party for Ornamental Plants and Forest Trees
 at its thirty-ninth session, to be held in Fortaleza, Ceará State, Brazil, from
 August 28 to September 1, 2006*

Alternative Names:^{*}

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Lilium L.</i>	Lily	Lis	Lilie	Lirio

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 varieties of *Lilium* L. of the family *Liliaceae*.

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 bulbs

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

30 bulbs, without having undergone any treatment.

Bulb size: hybrids with an Oriental parent: 16-18, all other types 14-16

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.

2.6 For all types: at least 90% free from LSV (Lily Symptomless Virus), at least 95% free from TMV (Tulip Mosaic Virus) (type Longiflorum included).

Bulbs should only have one vegetation point.

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 Observations should be made at the time of anther dehiscence of the first 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 20 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.

3.4.3 Before the bulbs are planted for the trial a virus test is performed. For this virus test 1 scale of each of 10 bulbs are sampled per bulb. Each example is tested individually for the following viruses:

- Lily Symptomless Virus (LSV)
- Tulip Mosaic Virus (TMV), type longiflorm included

Maximum accepted virus infection:

$30 \times 5\% = 1.5$ bulbs infected for TMV

$30 \times 10\% = 3$ bulbs infected for LSV

An sample will be considered as being positive for virus infection when:

In a sample 2 or more bulbs are positive for TMV and/or

In a sample 4 or more bulbs are positive for LSV

In case of doubt an additional virus test can be done on (a part of) the not tested bulbs.

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

3.5.1 Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.

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 between 6 and 35 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 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) Flower: main color of tepal (characteristic 20)
- b) Tepal: papillae (characteristic 23)
- c) Tepal: color of papillae if different from main color (Characteristic 32)
- d) Classification of *Lilium* by species of hybrid groups:

Asiatic hybrids	Gr. 1
Oriental hybrids	Gr. 2
Longiflorum	Gr. 3
Longiflorum x Asiatic hybrids	Gr. 4
Longiflorum x Oriental hybrids	Gr. 5
Oriental x Trumpet hybrids	Gr. 6
Other	Gr. 7

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

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

6.2 *States of Expression and Corresponding Notes*

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

6.3 *Types of Expression*

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

6.4 Example Varieties

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

6.5 Legend

(*) Asterisked characteristic – see Chapter 6.1.2

QL: Qualitative characteristic – see Chapter 6.3

QN: Quantitative characteristic – see Chapter 6.3

PQ: Pseudo-qualitative characteristic – see Chapter 6.3

“(a)-{x} 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

Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispielsorten	Note
<i>TO BE DELETED</i>					
1. Ploidy	diploid	diploïde	diploid		2
Ploïdie	triploid	triploïde	triploid		3
Ploidie	tetraploid	tétraploïde	tetraploid		4
(*) 2. Plant: height	short	basse	niedrig	Orange Pixie	3
Plante: hauteur	medium	moyenne	mittel	Casa Blanca	5
Pflanze: Höhe	tall	haute	hoch	Golden Tycoon	7
(*) 3. Stem: anthocyanin coloration (in middle third)	absent	absente	fehlend	Casa Blanca, White Europe, Triumphator	1
Tige: pigmentation anthocyanique (au tiers moyen)	present	présente	vorhanden	LEL 2426	9
Stengel: Anthocyan-färbung (im mittleren Drittel)					
4. Stem: distribution of anthocyanin coloration (as for 3)	even	uniforme	gleichmässig	LEL 2426	1
Tige: distribution de pigmentation anthocyanique (comme pour 3)	speckled and striped	en taches et stries	in Flecken und Streifen	Val Di Sole	2
Stengel: Verteilung der Anthocyanfärbung (wie unter 3)					
5. Stem: number of leaves on middle third	few	petit	gering		3
Tige: nombre de feuilles au tiers moyen	medium	moyen	mittel		5
Stengel: Anzahl Blätter im mittleren Drittel	many	grand	gross		7

Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispielsorten	Note
<i>TO BE DELETED</i>					
(*) 6. Leaf: arrangement	alternate	alternées	wechselständig		1
Feuilles: disposition	opposite (decussate)	opposées	gegenständig	Marco Polo, Aristo	2
Blatt: Anordnung	whorled	verticillées	quirlig		3
<i>TO BE DELETED</i>					
(*) 7. Leaf: level of tip compared to point of attachment to stem	below	au-dessous	unterhalb	Minerva, Pink Supreme	1
Feuille: niveau du sommet par rapport au point d'attache sur la tige	same level	même niveau	auf gleicher Höhe	Peaudouce	2
Blatt: Höhe der Spitze im Vergleich zur Ansatzstelle am Stengel	above	au-dessus	oberhalb	Marco Polo	3
<i>TO BE DELETED</i>					
(*) 8. Leaf: distal part	incurved	incurvée	aufgebogen		3
Feuille: partie distale	straight	droite	gerade	Marco Polo, Mero Star	5
Blatt: oberes Ende	recurved	recourbée	zurückgebogen	Aristo, Minerva	7
9. Leaf: length	short	courte	kurz		3
Feuille: longueur	medium	moyenne	mittel	Marco Polo, Mero Star, Lorina	5
Blatt: Länge	long	longue	lang	White Europe, Triumphator	7
10. Leaf: width	narrow	étroite	schmal	Pink Pixie	3
Feuille: largeur	medium	moyenne	mittel	White Europe	5
Blatt: Breite	broad	large	breit	Acapulco	7

Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
11. Leaf: glossiness of upper side Feuille: lustre de la face supérieure Blatt: Glanz der Oberseite	absent or very weak weak medium strong very strong	nul ou très faible faible moyen fort très fort	fehlend oder sehr gering gering mittel stark sehr stark	Acapulco, Marco Polo White Elegance Golden Tycoon	1 3 5 7 9
12. Leaf: cross section Feuille: section transversale Blatt: Querschnitt	angled flat recurved state 3 can be deleted	coudée droite recourbée	gewinkelt flach zurückgebogen	Marco Polo	1 2 X
(*) 13. Inflorescence: type Inflorescence: type Blütenstand: Typ	racemose umbellate to racemose	racème	Traube	Marco Polo	1 2
14. Inflorescence: number of flowers Inflorescence: nombre de fleurs Blütenstand: Anzahl Blüten	few medium many	petit moyen grand	gering mittel gross	Brindisi Tresor, Golden Tycoon Monte Negro	3 5 7
15. Inflorescence: pubescence Inflorescence: pilosité Blütenstand: Behaarung	absent or very weak weak medium strong very strong	absente ou très faible faible moyenne forte très forte	fehlend oder sehr gering gering mittel stark sehr stark	White Europe Marco Polo	1 3 5 7 9

Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispielsorten	Note
16. Flower: type Fleur: type Blüte: Typ	single double	simple double	einfach gefüllt	Golden Tycoon Little Kiss	1 2
(*) 17. Flower: attitude of perianth Fleur: port de l'axe longitudinal Blüte: Stellung der Längsachse	erect horizontal (?) pendant	dressé horizontal retombant	aufrecht waagerecht hängend		1 2 3
18. Flower: length of outer tepal Fleur: longueur du tépale externe Blüte: Länge des äusseren Perigon-blatts	short medium long	court moyen long	kurz mittel lang	Tresor, Val Di Sole	3 5 7
19. Flower: width of outer tepal Fleur: largeur du tépale externe Blüte: Breite des äusseren Perigon-blatts	narrow medium broad	étroit moyen large	schmal mittel breit	White Europe, White Lace	3 5 7
(*) 20. Flower: main color of inner side of tepals Fleur: couleur de fond de la face <u>interne</u> du tépale Blüte: Grundfarbe der Innenseite des Perigonblatts	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)		

Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
21. Flower: main color of <u>outer</u> side of tepals Fleur: couleur de fond de la face <u>externe</u> du tépale Blüte: Grundfarbe der <u>Aussenseite</u> des Perigonblatts	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)		
TO BE DELETED					
(*) 22. Flower: main color of <u>inner</u> side of <u>outer</u> tepal Fleur: couleur de fond de la face <u>interne</u> du tépale <u>externe</u> Blüte: Grundfarbe der <u>Innenseite</u> des <u>äusseren</u> Perigonblatts	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)		
(*) 23. Flower: type of coloration of <u>inner</u> side of <u>inner</u> tepal Fleur: type de coloration de la face <u>interne</u> du tépale <u>interne</u> Blüte: Art der Färbung der <u>Innenseite</u> des <u>inneren</u> Perigonblatts	self colored bicolored	unicolore bicolore	einfarbig zweifarbig		1 2
(*) 24. <u>Single colored varieties only:</u> Flower: color distribution <u>Variétés unicolores seulement:</u> Fleur: distribution de la couleur <u>Nur einfarbige Sorten:</u> Blüte: Verteilung der Farbe	lighter towards top lighter towards base lighter towards base and top	plus claire vers le sommet plus claire vers la base plus claire vers la base et le sommet	heller zur Spitze hin heller zur Basis hin heller zur Basis und zur Spitze	Peach Pixie, 2 3	1

	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
(*) 25.	<u>Bicolored varieties</u> <u>only:</u> Flower: secondary color <u>Variétés bicolores</u> <u>seulement:</u> Fleur: couleur secondaire <u>Nur zweifarbig Sorten:</u> Blüte: Sekundärfarbe	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)		

TO BE DELETED

(*) 26.	<u>Bicolored varieties</u> <u>only:</u> Flower: secondary color at <u>margin</u> <u>Variétés bicolores</u> <u>seulement:</u> Fleur: couleur secondaire au <u>bord</u> <u>Nur zweifarbig Sorten:</u> Blüte: Sekundärfarbe am <u>Rand</u>	absent present	absente présente	fehlend vorhanden	Aladdin	1 9
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TO BE DELETED

(*) 27.	<u>Bicolored varieties</u> <u>only:</u> Flower: secondary color on basal half Electric <u>Variétés bicolores</u> <u>seulement:</u> Fleur: couleur secondaire sur la moitié basale <u>Nur zweifarbig Sorten:</u> Blüte: Sekundärfarbe an der basalen Hälfte	absent present	absente présente	fehlend vorhanden	Avant Garde,	1 9
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	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
(*) 28.	Flower: color of the nectar furrow Fleur: couleur du sillon nectarifaire Blüte: Farbe der Nektarfurche	white	blanc	weiss	Imperia, Pyramid	1
		green	vert	grün	Marco Polo,	2
		yellow green	vert jaune	gelbgrün		3
		yellow	jaune	gelb	Mero Star	4
		orange	orange	orange		5
		orange pink	rose orange	orangerosa		6
		pink rose	rosa	Minerva		7
		red	rouge	rot		8
		purple red	rouge pourpre	purpurrot		9
		purple	pourpre	purpur		10
		purple brown	brun pourpre	purpurbraun		11
(*) 29.	Tepal: papillae Tépale: ??	absent	absentes	fehlend	White Europe	1
		present	présentes	vorhanden	Marco Polo, Pyramid	9
Perigonblatt: ??						
(*) 30.	Tepal: number of papillae on inner side	few	petit	gering	Marco Polo	3
		medium	moyen	mittel	Purple Rain	5
		many	grand	gross		7
(*) 31.	Tepal: size of area with papillae on inner side	small	petite	klein	Pink Supreme	3
		medium	moyenne	mittel	Marco Polo, Minerva	5
		large	grande	gross	Purple Rain	7

	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
(*) 32.	Tepal: color of papillae if different from main color	white yellow brown yellow brown				1 2 3 4
	Tépale: taches sur les papilles	red brown				5
	Perigonblatt: Flecken auf den Papillen	pink red purple red				6 7 8
(*) 33.	Tepal: color at the base of the main vein (excluding nectar furrow)	white green yellow green yellow orange orange pink	blanc vert vert jaune jaune orange rose orange	weiss grün gelbgrün gelb orange orangerosa	Marco Polo	1 2 3 4 5 6
	Tépale: couleur à la base de la nervure principale (à l'ex- clusion du sillon nectarinaire)					7
	Perigonblatt: Farbe an der Basis der Hauptader (Nektar- furche ausgenommen)	pink red purple red purple purple brown	rose rouge rouge pourpre pourpre brun pourpre	rosa rot purpurrot purpur purpurbraun	Mero Star	8 9 10 11
34.	Tepal: texture of inner side	smooth ribbed	lisse côtelée	glatt gerippt	White Europe	1 2
	Tépale: texture de la face interne	papillose	à papilles	papillös		3
	Perigonblatt: Textur der Innenseite	ribbed and papillose	côtelée et à papilles	gerippt und papillös	Minerva	4

	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
35.	Tepal: undulation of margin Tépale: ondulation du bord Perigonblatt: Wellung des Randes	absent or very weak weak medium strong very strong	absente ou très faible faible moyenne forte très forte	fehlend oder sehr gering gering mittel stark sehr stark	Marco Polo	1 3 5 7 9
36.	Tepal: type of undulation of margin Tépale: type de l'ondulation du bord Perigonblatt: Art der Wellung des Randes	fine only coarse only fine and coarse	seulement fine seulement grossière fine et grossière	nur fein nur grob fein und grob	Marco Polo Casa Blanca Casa Blanca	1 2 3
(*) 37.	Tepal: recurved part Tépale: partie recourbée Perigonblatt: zurückgebogener Teil	tip only distal part only whole tepal	extrémité seulement partie distale seulement tépale entier	nur Spitze nur oberer Teil gesamtes Perigonblatt	White Europe Casa Blanca Casa Blanca	1 2 3
(*) 38.	Tepal: degree of recurving Tépale: degré de recourbure Perigonblatt: Stärke der Biegung	weak medium strong	faible moyen fort	gering mittel stark	Marco Polo Casa Blanca	3 5 7
39.	Stamen: length Etamine: longueur Staubgefäß: Länge	short medium long	courte moyenne longue	kurz mittel lang	Fangio Mero Star Casa Blanca	3 5 7

	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispielssorten	Note
(*) 40.	Stamen: main color of filament Etamine: couleur principale du filet Staubgefäß: Hauptfarbe des Staubfadens	white green yellow green yellow orange orange pink pink red purple red purple purple brown	blanc vert vert jaune jaune orange rose orange rose rouge rouge pourpre pourpre brun pourpre	weiss grün gelbgrün gelb orange orangerosa rosa rot purpurrot purpur purpurbraun	Verdi Casa Blanca, White Europe Mero Star	1 2 3 4 5 6 7 8 9 10 11
(*) 41.	Stamen: color of anther Etamine: couleur des anthères Staubgefäß: Antherenfarbe	orange brown orange yellow reddish brown brown purple purple red	brun orangé brun rougeâtre brunes pourpre	orangebraun rötlichbraun braun purpur Mero Star		1 2 3 4 5 6
42.	Pollen: color Pollen: couleur Pollen: Farbe	light yellow yellow orange light brown brown orange brown red brown dark brown	jaune clair jaune orange brun clair brun brun orangé brun rougeâtre brun foncé	hellgelb gelb orange hellbraun hellbraun orangebraun rötlichbraun dunkelbraun	Pink Supreme Casa Blanca	1 2 3 4 5 6 7 8

	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispielssorten	Note
(*) 43.	Style: main color	white	blanc	weiss		1
	Style: couleur principale	green	vert	grün	Casa Blanca, White Europe	2
	Griffel: Hauptfarbe	yellow green	vert jaune	gelbgrün	Pink Supreme	3
		yellow	jaune	gelb		4
		orange	orange	orange		5
		orange pink	rose orange	orangerosa		6
		pink	rose	rosa		7
		red	rouge	rot		8
		purple red	rouge pourpre	purpurrot		9
		purple	pourpre	purpur		10
		purple brown	brun pourpre	purpurbraun		11

TO BE DELETED

44.	Flower: position of stigma in relation to anthers	below	au-dessous	unterhalb		1
		same level	même niveau	auf gleicher Höhe		2
	Fleur: position du stigmate par rapport aux anthères	above	au-dessus	oberhalb	Marco Polo	3
	Blüte: Stellung der Narbe im Vergleich zu den Antheren					

Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispieldsorten	Note
45. Stigma: color	grey	gris	grau	d'Oleron	1
	grey green				
Stigmate: couleur	green	vert	grün	White Europe	2
	yellow				3
Narbe: Farbe	orange	orange	orange		4
	purple red	rouge pourpre	purpurrot	Casa Blanca	5
	purple	pourpre	purpur		6
	dark purple	pourpre foncé	dunkelpurpur		7
	brown	brun	braun		8
(*) 46. Time of flowering	very early	très précoce	sehr früh		1
Epoque de floraison	early	précoce	früh		3
Zeitpunkt der Blüte	medium	moyenne	mittel	Marco Polo, Pink Supreme	5
	late	tardive	spät		7
	very late	très tardive	sehr spät	Mero Star	9

8. Explanations on the Table of Characteristics

(To be completed in next version)

“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)
- (b) etc.

“8.2 Explanations for individual characteristics

Ad. 1 etc.”

Example varieties: Name }

(to be completed in next version)

Literature

(to be completed in next version)

9. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p style="text-align:center">TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<i>Lilium L.</i>	
1.2 Common name	Lily	
2. Applicant		
Name		
Address		
Telephone No.		
Fax No.		
E-mail address		
Breeder (if different from applicant)		
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)		
Breeder's reference		

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)	[]	
(b) partially known cross (please state known parent variety(ies))	[]	
(c) unknown cross	[]	
4.1.2 Mutation (please state parent variety)	[]	
4.1.3 Discovery and development (please state where and when discovered and how developed)	[]	
4.1.4 Other (please provide details)	[]	

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:
<p>4.2 Method of propagating the variety</p> <p>4.2.1 Vegetative propagation</p> <p>(a) Scales []</p> <p>(b) <i>in vitro</i> propagation []</p> <p>(c) other (state method) []</p> <p>4.2.2 Seed []</p> <p>4.2.3 Other []</p> <p>(please provide details)</p> <p>In the case of hybrid varieties the production scheme for the hybrid should be provided on a separate sheet. This should provide details of all the parent lines required for propagating the hybrid e.g.</p> <p><i>Single Hybrid</i></p> <p>(... female parent ...) x (... male parent ...)</p> <p><i>Three-Way Hybrid</i></p> <p>(... female line ...) x (... male line ...)</p> <p>=> single hybrid used as female parent x (... male parent ...)</p> <p>and should identify in particular:</p> <p>(a) any male sterile lines</p> <p>(b) maintenance system of male sterile lines."</p>		

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 Flower: main color of tepals (20)	RHS color chart (indicate reference number)	
5.2 Tepal: papillae (29)	absent	1[]
	present	9[]
5.3 Tepal: color of papillae if different from main color (32)		
white		1[]
yellow		2[]
brown yellow		3[]
brown		4[]
red brown		5[]
pink		6[]
red		7[]
purple red		8[]
5.4 Classification of <i>Lilium</i> by species of hybrid groups:		
Asiatic hybrids		Gr. 1 []
Oriental hybrids		Gr. 2 []
Longiflorum		Gr. 3 []
Longiflorum x Asiatic hybrids		Gr. 4 []
Longiflorum x Oriental hybrids		Gr. 5 []
Oriental x Trumpet hybrids		Gr. 6 []
Other		Gr. 7 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
6. Similar varieties and differences from these varieties			
<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
Example	[e.g. Flower color]	[e.g. orange]	[e.g. orange red]
Comments:			

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 Main use</p> <p>(a) garden plant [] (b) pot plant [] (c) cut-flower [] (d) other [] (please provide details)</p> <p>7.4 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.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

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]