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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

### EUSTOMA

UPOV Code(s): EUSTO\_GRA

*Eustoma exaltatum* (L.) Salisb. ex G. Don  
subsp. *russellianum* (Hook.) Kartesz

### GUIDELINES

#### FOR THE CONDUCT OF TESTS

#### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from Japan*

*to be considered by the*

*Technical Committee at its fifty-seventh session  
to be held in Geneva on October 25 and 26, 2021*

*Disclaimer: this document does not represent UPOV policies or guidance*

Alternative names:\*

Botanical name	English	French	German	Spanish
<i>Eustoma exaltatum</i> (L.) Salisb. ex G. Don subsp. <i>russellianum</i> (Hook.) Kartesz, <i>Bilamista grandiflora</i> Raf., <i>Eustoma</i> <i>grandiflorum</i> (Raf.) Shinners, <i>Eustoma</i> <i>russellianum</i> (Hook.) G. Don, <i>Lisianthus</i> <i>russellianus</i> Hook.	Eustoma, Lisianthus	Eustoma, Lisianthus	Eustoma, Lisianthus	Eustoma, Lisiantus

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

### ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

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

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1. Subject of these Test Guidelines

- 1.1 These Test Guidelines apply to all varieties of *Eustoma exaltatum* (L.) Salisb. ex G. Don subsp. *russellianum* (Hook.) Kartesz.
- 1.2 Guidance on the use of Test Guidelines for hybrids with other subspecies that are not explicitly covered by Test Guidelines is provided in document TGP/13 "Guidance for New Types and Species".

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

vegetatively propagated varieties: 20 plants  
seed-propagated varieties: a sufficient quantity of seed to produce 40 plants.

In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.

- 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*

- 3.1.1 The minimum duration of tests should normally be a single growing cycle.
- 3.1.2 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

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 In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 20 plants.
- 3.4.2 In the case of seed-propagated varieties, each test should be designed to result in a total of at least 40 plants.
- 3.4.3 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 or Parts of Plants to be Examined

In the case of vegetatively propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observation made on all plants in the test, disregarding any off-type plants.

In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation 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 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 These Test Guidelines have been developed for the examination of vegetatively propagated and seed-propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.

4.2.3 The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.2.4 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction.

4.2.5 For the assessment of uniformity of vegetatively propagated varieties and self-pollinated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 1 off-type is allowed. In the case of self-pollinated varieties of a sample size of 40 plants, 2 off-type are 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 seed or 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) Plant: height (characteristic 1)
  - (b) Flower: type (characteristic 14)
  - (c) Flower: width (characteristic 18)
  - (d) Petal: main color of inner side (characteristic 27)  
with the following groups:
    - Gr. 1: white
    - Gr. 2: light green
    - Gr. 3: yellow
    - Gr. 4: orange
    - Gr. 5: pink
    - Gr. 6: red
    - Gr. 7: purple
    - Gr. 8: blue purple
  - (e) Petal: secondary color of inner side (characteristic 28)  
with the following groups:
    - Gr. 1: none
    - Gr. 2: white
    - Gr. 3: light green
    - Gr. 4: yellow
    - Gr. 5: orange
    - Gr. 6: pink
    - Gr. 7: red
    - Gr. 8: purple
    - Gr. 9: blue purple
  - (f) Petal: distribution of secondary color of inner side (characteristic 29)
  - (g) Petal: color of base of inner side (characteristic 31)
- 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 All relevant states of expression are presented in the characteristic.

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

English				français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7			
		<b>Name of characteristics in English</b>		<b>Nom du caractère en français</b>		<b>Name des Merkmals auf Deutsch</b>		<b>Nombre del carácter en español</b>	
		states of expression		types d'expression		Ausprägungsstufen		tipos de expresión	

- 1 Characteristic number
- 2 (\*) Asterisked characteristic – see Chapter 6.1.2
- 3 Type of expression
  - QL Qualitative characteristic – see Chapter 6.3
  - QN Quantitative characteristic – see Chapter 6.3
  - PQ Pseudo-qualitative characteristic – see Chapter 6.3
- 4 Method of observation (and type of plot, if applicable)  
MG, MS, VG, VS – see Chapter 4.1.5
- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.2
- 6 (a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Not applicable



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

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. (*)	QN	MS/VG	(+)					
	<b>Plant: height</b>		<b>Plante : hauteur</b>		<b>Pflanze: Höhe</b>	<b>Planta: altura</b>		
	very short		très courte		sehr niedrig	muy baja		1
	very short to short		très courte à courte		sehr niedrig bis niedrig	muy baja a baja		2
	short		courte		niedrig	baja	Sase LIS02	3
	short to medium		courte à moyenne		niedrig bis mittel	baja a media		4
	medium		moyenne		mittel	media	Momo Sen	5
	medium to tall		moyenne à haute		mittel bis hoch	media a alta		6
	tall		haute		hoch	alta	Mio Peach Chuchu	7
	tall to very tall		haute à très haute		hoch bis sehr hoch	alta a muy alta		8
	very tall		très haute		sehr hoch	muy alta		9
2.	QN	MS/VG	(+)					
	<b>Plant: number of primary branches</b>		<b>Plante : nombre de branches primaires</b>		<b>Pflanze: Anzahl Primärzweige</b>	<b>Planta: número de ramas primarias</b>		
	very few		très petit		sehr gering	muy bajo		1
	very few to few		très petit à petit		sehr gering bis gering	muy bajo a bajo		2
	few		petit		gering	bajo	Shonai Cross Pink	3
	few to medium		petit à moyen		gering bis mittel	bajo a medio		4
	medium		moyen		mittel	medio	Exe Pink	5
	medium to many		moyen à grand		mittel bis hoch	medio a alto		6
	many		grand		hoch	alto	Illumypink	7
	many to very many		grand à très grand		hoch bis sehr hoch	alto a muy alto		8
	very many		très grand		sehr hoch	muy alto		9
3.	PQ	VG	(+)					
	<b>Plant: position of primary branches</b>		<b>Plante : position des branches primaires</b>		<b>Pflanze: Position der Primärzweige</b>	<b>Planta: posición de las ramas primarias</b>		
	upper part only		partie supérieure seulement		nur oberer Teil	solo en la parte superior	Saga T2go	1
	upper and middle part		partie supérieure et médiane		oberer und mittlerer Teil	en la parte superior y en la central	Lilac Pink Thumb	2
	throughout		partout		überall	en la totalidad	Cherrybee	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4.	QN	MS/VG						
	<b>Stem: number of nodes</b>		<b>Tige : nombre de nœuds</b>		<b>Stiel: Anzahl Knoten</b>	<b>Tallo: número de nudos</b>		
	very few		très petit		sehr gering	muy bajo		1
	very few to few		très petit à petit		sehr gering bis gering	muy bajo a bajo		2
	few		petit		gering	bajo	Cherrybee 3go	3
	few to medium		petit à moyen		gering bis mittel	bajo a medio		4
	medium		moyen		mittel	medio	Momo Sen	5
	medium to many		moyen à grand		mittel bis hoch	medio a alto		6
	many		grand		hoch	alto	Shonai Cross White	7
	many to very many		grand à très grand		hoch bis sehr hoch	alto a muy alto		8
	very many		très grand		sehr hoch	muy alto		9
5. (*)	QN	MS/VG	(+)	(a)				
	<b>Leaf: length</b>		<b>Feuille : longueur</b>		<b>Blatt: Länge</b>	<b>Hoja: longitud</b>		
	very short		très courte		sehr kurz	muy corta		1
	very short to short		très courte à courte		sehr kurz bis kurz	muy corta a corta		2
	short		courte		kurz	corta	Diamond	3
	short to medium		courte à moyenne		kurz bis mittel	corta a media		4
	medium		moyenne		mittel	media	Momo Sen	5
	medium to long		moyenne à longue		mittel bis lang	media a larga		6
	long		longue		lang	larga	Sase LIS02	7
	long to very long		longue à très longue		lang bis sehr lang	larga a muy larga		8
	very long		très longue		sehr lang	muy larga		9
6. (*)	QN	MS/VG	(+)	(a)				
	<b>Leaf: width</b>		<b>Feuille : largeur</b>		<b>Blatt: Breite</b>	<b>Hoja: anchura</b>		
	very narrow		très étroite		sehr schmal	muy estrecha		1
	very narrow to narrow		très étroite à étroite		sehr schmal bis schmal	muy estrecha a estrecha		2
	narrow		étroite		schmal	estrecha	Cherrybee 3go	3
	narrow to medium		étroite à moyenne		schmal bis mittel	estrecha a media		4
	medium		moyenne		mittel	media	Momo Sen	5
	medium to broad		moyenne à large		mittel bis breit	media a ancha		6
	broad		large		breit	ancha	Komachi White Dress	7
	broad to very broad		large à très large		breit bis sehr breit	ancha a muy ancha		8
	very broad		très large		sehr breit	muy ancha		9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	QN	MS/VG	(+)	(a)				
	<b>Leaf: ratio length/width</b>	<b>Feuille : rapport longueur/largeur</b>	<b>Blatt: Verhältnis Länge/Breite</b>	<b>Hoja: relación longitud/anchura</b>				
	very low	très bas	sehr klein	muy baja				1
	very low to low	très bas à bas	sehr klein bis klein	muy baja a baja				2
	low	bas	klein	baja	Komachi White Dress			3
	low to medium	bas à moyen	klein bis mittel	baja a media				4
	medium	moyen	mittel	media	Momo Sen			5
	medium to high	moyen à élevé	mittel bis groß	media a alta				6
	high	élevé	groß	alta	Shonai Cross White			7
	high to very high	élevé à très élevé	groß bis sehr groß	alta a muy alta				8
	very high	très élevé	sehr groß	muy alta				9
8. (*)	QN	VG	(+)	(a)				
	<b>Leaf: glaucosity</b>	<b>Feuille : glaucescence</b>	<b>Blatt: Bereifung</b>	<b>Hoja: glaucescencia</b>				
	absent or weak	nulle ou faible	fehlend oder gering	ausente o débil	Cherrybee			1
	medium	moyenne	mittel	media	Komachi Green Dress			2
	strong	forte	stark	fuerte	Momo Sen			3
9. (*)	QN	VG	(+)	(a)				
	<b>Leaf: intensity of green color</b>	<b>Feuille : intensité de la couleur verte</b>	<b>Blatt: Intensität der Grünfärbung</b>	<b>Hoja: intensidad del color verde</b>				
	light	claire	hell	clara	Saga T2go			1
	medium	moyenne	mittel	media	Momo Sen			2
	dark	foncée	dunkel	oscura	Lilac Pink Thumb			3
10.	QN	MS/VG	(+)					
	<b>Pedicel: length</b>	<b>Pédicelle : longueur</b>	<b>Blütenstiel: Länge</b>	<b>Pedicelo: longitud</b>				
	very short	très courte	sehr kurz	muy corta				1
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta				2
	short	courte	kurz	corta	Lilac Pink Thumb			3
	short to medium	courte à moyenne	kurz bis mittel	corta a medio				4
	medium	moyenne	mittel	medio	Momo Sen			5
	medium to long	moyenne à longue	mittel bis lang	medio a larga				6
	long	longue	lang	larga	Diamond			7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga				8
	very long	très longue	sehr lang	muy larga				9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
11.	QN	MS/VG	(+)				
	<b>Calyx: length</b>	<b>Calice : longueur</b>	<b>Kelch: Länge</b>	<b>Cáliz: longitud</b>			
	very short	très courte	sehr kurz	muy corta			1
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta			2
	short	courte	kurz	corta	Cherrybee		3
	short to medium	courte à moyenne	kurz bis mittel	corta a medio			4
	medium	moyenne	mittel	medio	Momo Sen		5
	medium to long	moyenne à longue	mittel bis lang	medio a larga			6
	long	longue	lang	larga	Asamiyae		7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga			8
	very long	très longue	sehr lang	muy larga			9
12.	QN	VG					
	<b>Calyx: anthocyanin coloration</b>	<b>Calice : pigmentation anthocyanique</b>	<b>Kelch: Anthocyanfärbung</b>	<b>Cáliz: pigmentación antocianica</b>			
	absent or weak	nulle ou faible	fehlend oder schwach	ausente o débil	Light Blue Thumb		1
	medium	moyenne	mittel	media			2
	strong	forte	stark	fuerte	Cherrybee		3
13.	QN	MS/VG					
	<b>Flower: number</b>	<b>Fleur : nombre</b>	<b>Blüte: Anzahl</b>	<b>Flor: número</b>			
	very few	très petit	sehr gering	muy bajo			1
	very few to few	très petit à petit	sehr gering bis gering	muy bajo a bajo			2
	few	petit	gering	bajo	Kirara Apricot 2		3
	few to medium	petit à moyen	gering bis mittel	bajo a medio			4
	medium	moyen	mittel	medio	Momo Sen		5
	medium to many	moyen à grand	mittel bis hoch	medio a alto			6
	many	grand	hoch	alto	Mahoroba Peach		7
	many to very many	grand à très grand	hoch bis sehr hoch	alto a muy alto			8
	very many	très grand	sehr hoch	muy alto			9
14. (*)	QL	VG	(+)				
	<b>Flower: type</b>	<b>Fleur : type</b>	<b>Blüte: Typ</b>	<b>Flor: tipo</b>			
	single	simple	einfach	simple	Momo Sen		1
	double	double	gefüllt	doble	Piccorosa Pink Picotee		2

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
15. (*)	QN	MS/VG					
	<u>Only varieties with Flower: type: double: Flower: number of petals</u>		<u>Seulement les variétés à Fleur : type : double : Fleur : nombre de pétales</u>	<u>Nur Sorten mit Blüte: Typ: gefüllt: Blüte: Anzahl Blütenblätter</u>	<u>Solo variedades con flor: tipo: doble: Flor: número de pétalos</u>		
	very few		très petit	sehr gering	muy bajo		1
	very few to few		très petit à petit	sehr gering bis gering	muy bajo a bajo		2
	few		petit	gering	bajo	Komachi Green Dress	3
	few to medium		petit à moyen	gering bis mittel	bajo a medio		4
	medium		moyen	mittel	medio	Diamond	5
	medium to many		moyen à grand	mittel bis hoch	medio a alto		6
	many		grand	hoch	alto	Lination Pink Picotee	7
	many to very many		grand à très grand	hoch bis sehr hoch	alto a muy alto		8
	very many		très grand	sehr hoch	muy alto		9
16.	PQ	VG	(+)				
	<b>Flower: shape</b>		<b>Fleur : forme</b>	<b>Blüte: Form</b>	<b>Flor: forma</b>		
	circular		circulaire	kreisförmig	circular	Chigusa	1
	pentagon		pentagone	fünfeckig	pentagonal	Azumanoshirabe	2
	star-shaped		étoile	sternförmig	estrellada	Shonai Cross White	3
17.	QN	MS/VG	(+)				
	<b>Flower: height</b>		<b>Fleur : hauteur</b>	<b>Blüte: Höhe</b>	<b>Flor: altura</b>		
	very short		très courte	sehr niedrig	muy baja		1
	very short to short		très courte à courte	sehr niedrig bis niedrig	muy baja a baja		2
	short		courte	niedrig	baja	Chigusa	3
	short to medium		courte à moyenne	niedrig bis mittel	baja a media		4
	medium		moyenne	mittel	media	Momo Sen	5
	medium to tall		moyenne à haute	mittel bis hoch	media a alta		6
	tall		haute	hoch	alta		7
	tall to very tall		haute à très haute	hoch bis sehr hoch	alta a muy alta		8
	very tall		très haute	sehr hoch	muy alta		9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
18. (*)	QN	MS/VG	(+)					
	<b>Flower: width</b>	<b>Fleur : largeur</b>	<b>Blüte: Breite</b>	<b>Flor: anchura</b>				
	very narrow	très étroite	sehr schmal	muy estrecha				1
	very narrow to narrow	très étroite à étroite	sehr schmal bis schmal	muy estrecha a estrecha				2
	narrow	étroite	schmal	estrecha	Chigusa			3
	narrow to medium	étroite à moyenne	schmal bis mittel	estrecha a media				4
	medium	moyenne	mittel	media	Momo Sen			5
	medium to broad	moyenne à large	mittel bis breit	media a ancha				6
	broad	large	breit	ancha	Rainbow White			7
	broad to very broad	large à très large	breit bis sehr breit	ancha a muy ancha				8
	very broad	très large	sehr breit	muy ancha				9
19.	QN	MS/VG	(+)					
	<b>Flower: ratio of height/width</b>	<b>Fleur : rapport hauteur/largeur</b>	<b>Blüte: Verhältnis Höhe/Breite</b>	<b>Flor: relación altura/anchura</b>				
	very low	très bas	sehr klein	muy baja				1
	very low to low	très bas à bas	sehr klein bis klein	muy baja a baja				2
	low	bas	klein	baja	Mahoroba Peach			3
	low to medium	bas à moyen	klein bis mittel	baja a media				4
	medium	moyen	mittel	media	Momo Sen			5
	medium to high	moyen à élevé	mittel bis groß	media a alta				6
	high	élevé	groß	alta	Shonai Cross White			7
	high to very high	élevé à très élevé	groß bis sehr groß	alta a muy alta				8
	very high	très élevé	sehr groß	muy alta				9
20. (*)	QN	MS/VG	(+)	(b)				
	<b>Petal: length</b>	<b>Pétale : longueur</b>	<b>Blütenblatt: Länge</b>	<b>Pétalo: longitud</b>				
	very short	très courte	sehr kurz	muy corta				1
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta				2
	short	courte	kurz	corta	Komachi White Dress			3
	short to medium	courte à moyenne	kurz bis mittel	corta a medio				4
	medium	moyenne	mittel	medio	Momo Sen			5
	medium to long	moyenne à longue	mittel bis lang	medio a larga				6
	long	longue	lang	larga	Suibijin			7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga				8
	very long	très longue	sehr lang	muy larga				9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
21. (*)	QN	MS/VG	(+)	(b)				
	<b>Petal: width</b>		<b>Pétale : largeur</b>		<b>Blütenblatt: Breite</b>	<b>Pétalo: anchura</b>		
	very narrow		très étroite		sehr schmal	muy estrecha		1
	very narrow to narrow		très étroite à étroite		sehr schmal bis schmal	muy estrecha a estrecha		2
	narrow		étroite		schmal	estrecha	Shonai Cross White	3
	narrow to medium		étroite à moyenne		schmal bis mittel	estrecha a media		4
	medium		moyenne		mittel	media	Momo Sen	5
	medium to broad		moyenne à large		mittel bis breit	media a ancha		6
	broad		large		breit	ancha	Suibijin	7
	broad to very broad		large à très large		breit bis sehr breit	ancha a muy ancha		8
	very broad		très large		sehr breit	muy ancha		9
22.	PQ	VG	(+)	(b)				
	<b>Petal: shape</b>		<b>Pétale : forme</b>		<b>Blütenblatt: Form</b>	<b>Pétalo: forma</b>		
	elliptic		elliptique		elliptisch	elíptica	Shonai Cross Pink	1
	oblanceolate		oblancéolée		verkehrt lanzettlich	oblanceolada	Bouquet White	2
	obovate		obovale		verkehrt eiförmig	oboval	Momo Sen	3
23. (*)	PQ	VG	(+)	(b)				
	<b>Petal: shape of apex</b>		<b>Pétale : forme de l'apex</b>		<b>Blütenblatt: Form des Apex</b>	<b>Pétalo: forma del ápice</b>		
	acuminate		acuminée		zugespitzt	acuminada	Lination Pink Picotee	1
	obtuse		obtuse		stumpf	obtusa		2
	rounded		arrondie		abgerundet	redondeada	Momo Sen	3
	flat		plate		flach	plana	Komachi Green Dress	4
	retuse		rétuse		eingedrückt	retusa	Piccorosa Pink Picotee	5
24.	QN	VG	(+)	(b)				
	<b>Petal : recurving of margin</b>		<b>Pétale : recourbure du bord</b>		<b>Blütenblatt: Randbiegung</b>	<b>Pétalo: recurvado del borde</b>		
	absent or very weak		nulle ou très faible		fehlend oder sehr gering	ausente o muy débil	Tokyo E1go	1
	weak		faible		gering	débil	Cute Green	2
	medium		moyenne		mittel	medio	Light Blue Thumb	3
	strong		forte		stark	fuerte	Momo Sen	4
	very strong		très forte		sehr stark	muy fuerte	Petit Snow	5

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25. (*)	QN	VG	(+)	(b)				
	<b>Petal: undulation of margin</b>		<b>Pétale : ondulation du bord</b>		<b>Blütenblatt: Randwellung</b>	<b>Pétalo: ondulación del borde</b>		
	very weak		très faible		sehr gering	muy débil		1
	very weak to weak		très faible à faible		sehr gering bis gering	muy débil a débil		2
	weak		faible		gering	débil	Momo Sen	3
	weak to medium		faible à moyenne		gering bis mittel	débil a media		4
	medium		moyenne		mittel	media	Mio Peach Chuchu	5
	medium to strong		moyenne à forte		mittel bis stark	media a fuerte		6
	strong		forte		stark	fuerte	Mahoroba Peach	7
	strong to very strong		forte à très forte		stark bis sehr stark	fuerte a muy fuerte		8
	very strong		très forte		sehr stark	muy fuerte		9
26. (*)	QN	VG	(+)	(b)				
	<b>Petal: depth of incisions of margin</b>		<b>Pétale : profondeur des incisions du bord</b>		<b>Blütenblatt: Tiefe der Randeinschnitte</b>	<b>Pétalo: profundidad de las incisiones del borde</b>		
	absent or very shallow		absente ou très peu profonde		fehlend oder sehr flach	ausente o muy poco profunda	Momo Sen	1
	shallow		peu profonde		flach	poco profunda		2
	medium		moyenne		mittel	media	Mio Peach Chuchu	3
	deep		profonde		tief	profunda		4
	very deep		très profonde		sehr tief	muy profunda	Sase LIS02	5
27. (*)	PQ	VG		(b), (c)				
	<b>Petal: main color of <u>inner</u> side</b>		<b>Pétale : couleur principale de la face <u>interne</u></b>		<b>Blütenblatt: Hauptfarbe der <u>Innenseite</u></b>	<b>Pétalo: color principal de la cara <u>interna</u></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)		
28. (*)	PQ	VG		(b), (c)				
	<b>Petal: secondary color of <u>inner</u> side</b>		<b>Pétale : couleur secondaire de la face <u>interne</u></b>		<b>Blütenblatt: Sekundärfarbe der <u>Innenseite</u></b>	<b>Pétalo: color secundario de la cara <u>interna</u></b>		
	RHS Colour Chart (indicate reference number)		Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		



	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
29. (*)	PQ	VG	(+)	(b), (c)				
	<b>Petal: distribution of secondary color of <u>inner</u> side</b>		<b>Pétale : répartition de la couleur secondaire de la face <u>interne</u></b>		<b>Blütenblatt: Verteilung der Sekundärfarbe der <u>Innenseite</u></b>	<b>Pétalo: distribución del color secundario de la cara <u>interna</u></b>		
	none		aucune		keine	ausente		1
	at tip		extrémité		an der Spitze	en la punta	Komachi Kiss	2
	margin		bord		am Rand	en el borde	Piccorosa Pink Picotee	3
	central bar		barre centrale		Mittelstreifen	franja central		4
	distal half		moitié distale		distale Hälfte	en la mitad distal	Mahoroba Peach	5
	basal half		moitié basale		basale Hälfte	en la mitad basal	Cherrybee 2go	6
	throughout		partout		überall	en la totalidad		7
30. (*)	PQ	VG	(+)	(b), (c)				
	<b>Petal: pattern of secondary color of <u>inner</u> side</b>		<b>Pétale : distribution de la couleur secondaire de la face <u>interne</u></b>		<b>Blütenblatt: Muster der Sekundärseite der <u>Innenseite</u></b>	<b>Pétalo: forma de disposición del color secundario de la cara <u>interna</u></b>		
	solid		uniforme		ganzflächig	lisa	Piccorosa Pink Picotee	1
	flushed		diffuse		flächig	difusa	Mahoroba Peach	2
	irregular		irrégulière		unregelmäßig	irregular		3
31. (*)	PQ	VG	(+)	(b)				
	<b>Petal: color of base of <u>inner</u> side</b>		<b>Pétale : couleur de la base de la face <u>interne</u></b>		<b>Blütenblatt: Farbe der Basis der <u>Innenseite</u></b>	<b>Pétalo: color de la base de la cara <u>interna</u></b>		
	green		vert		grün	verde	Chigusa	1
	violet		violet		violett	violeta	Momo Sen	2
	brown		brun		braun	marrón	Sase LIS02	3
32. (*)	PQ	VG		(b), (c)				
	<b>Petal: main color of <u>outer</u> side</b>		<b>Pétale : couleur principale de la face <u>externe</u></b>		<b>Blütenblatt: Hauptfarbe der <u>Außenseite</u></b>	<b>Pétalo: color principal de la cara <u>externa</u></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)		
33.	QN	VG	(+)					
	<b>Style: anthocyanin coloration</b>		<b>Style : pigmentation anthocyanique</b>		<b>Griffel: Anthocyaninfärbung</b>	<b>Estilo: pigmentación antocianica</b>		
	absent or weak		nulle ou faible		fehlend oder schwach	ausente o débil	Momo Sen	1
	medium		moyenne		mittel	media		2
	strong		forte		stark	fuerte	Cherrybee 2go	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
34.	QN	MG/VG	(+)				
	<b>Only seed-propagated varieties: Time of beginning of flowering</b>		<b>Seulement les variétés reproduites par voie sexuée : Époque de début de floraison</b>	<b>Nur samenvermehrte Sorten: Zeitpunkt des Blühbeginns</b>	<b>Solo variedades propagadas mediante semillas: Época de inicio de la floración</b>		
	very early		très précoce	sehr früh	muy temprana		1
	very early to early		très précoce à précoce	sehr früh bis früh	muy temprana a temprana		2
	early		précoce	früh	temprana	Cherrybee 3go	3
	early to medium		précoce à moyenne	früh bis mittel	temprana a media		4
	medium		moyenne	mittel	media	Mahoroba Yellow	5
	medium to late		moyenne à tardive	mittel bis spät	media a tardía		6
	late		tardive	spät	tardía	Saga T2go	7
	late to very late		tardive à très tardive	spät bis sehr spät	tardía a muy tardía		8
	very late		très tardive	sehr spät	muy tardía		9

## 8. Explanations on the Table of Characteristics

### 8.1 *Explanations covering several characteristics*

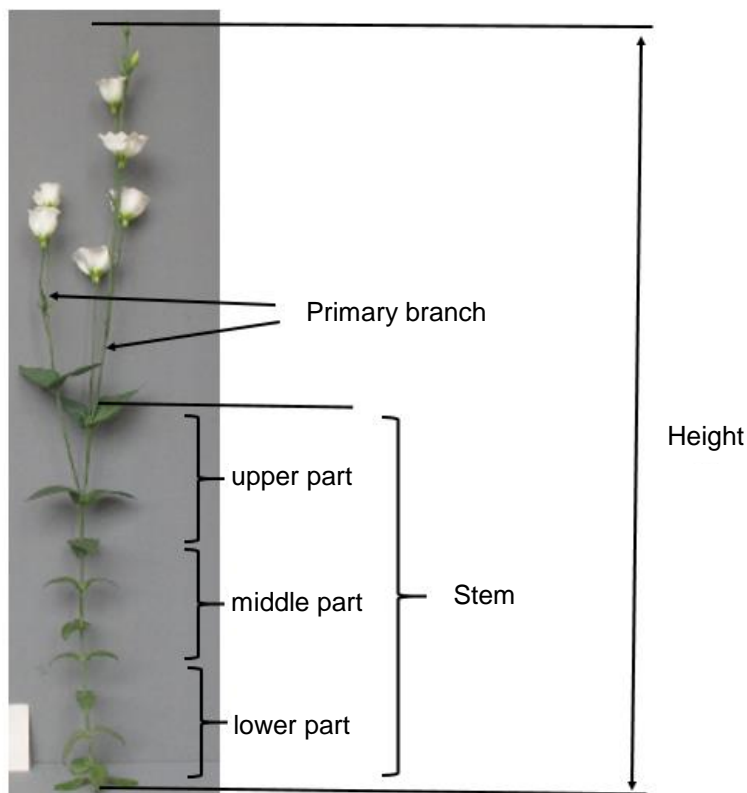
Unless otherwise indicated all characteristics should be observed at the time of full flowering.

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

- (a) Observations should be made on the upper side of fully developed leaves from the middle third of a stem.
- (b) Observations should be made on a petal from the outermost whorl.
- (c) The main color is the color with the largest area excluding the color at base. The secondary color is the color with the second largest area excluding the color at base. In cases where the areas of the main and secondary color are too similar to decide which color has the largest area, the darker color is considered to be the main color.

### 8.2 *Explanations for individual characteristics*

#### Ad. 1: Plant: height



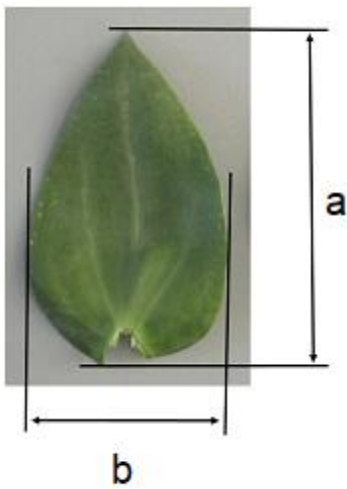
#### Ad. 2: Plant: number of primary branches

See Ad.1

#### Ad. 3: Plant: position of primary branches

See Ad.1

Ad. 5: Leaf: length



a = Length  
b = Width

Ad. 6: Leaf: width

See Ad. 5

Ad. 7: Leaf: ratio length/width



3  
low



5  
medium

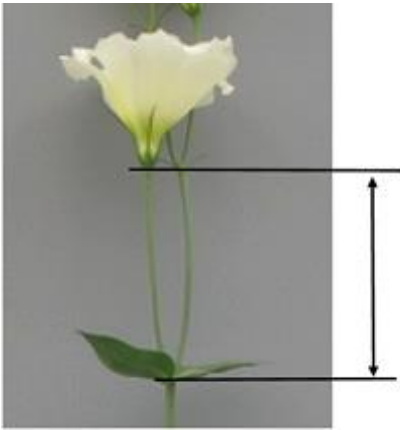


7  
high

Ad. 9: Leaf: intensity of green color

Observations should be made on the upper side of the leaf after removing the glaucosity.

Ad. 10: Pedicel: length



Ad. 11: Calyx: length



Ad. 14: Flower: type

Single varieties have only five petals.



1  
single



2  
double

Ad. 16: Flower: shape



1  
circular

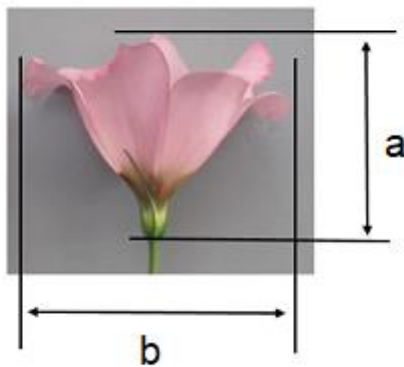


2  
pentagon



3  
star-shaped

Ad. 17: Flower: height



a = Height  
b = Width

Ad. 18: Flower: width

See Ad. 17

Ad. 19: Flower: ratio of height/width



3  
low

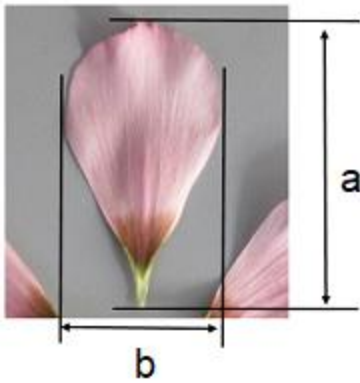


5  
medium



7  
high

Ad. 20: Petal: length



a = Length  
b = Width

Ad. 21: Petal: width

See Ad. 20

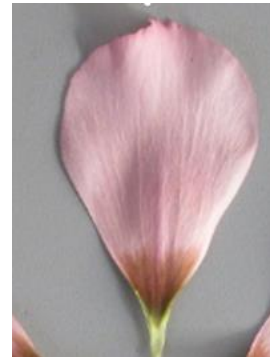
Ad. 22: Petal: shape



1  
elliptic



2  
oblongate



3  
obovate

Ad. 23: Petal: shape of apex



1  
acuminate



2  
obtuse



3  
rounded

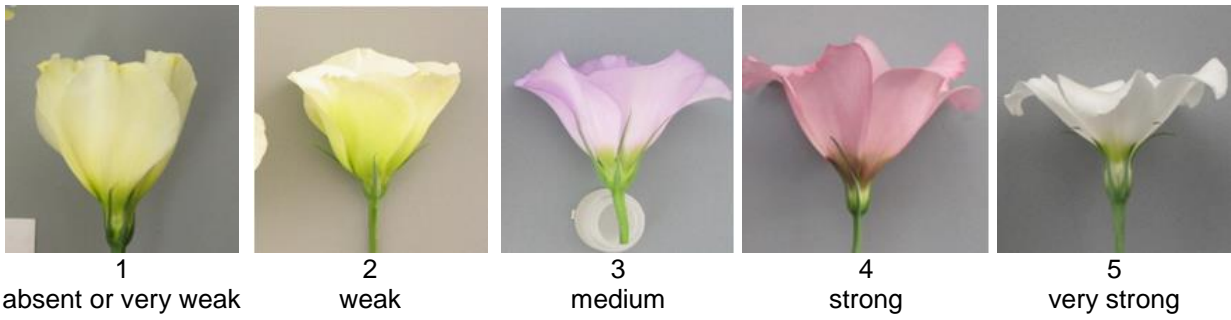


4  
flat

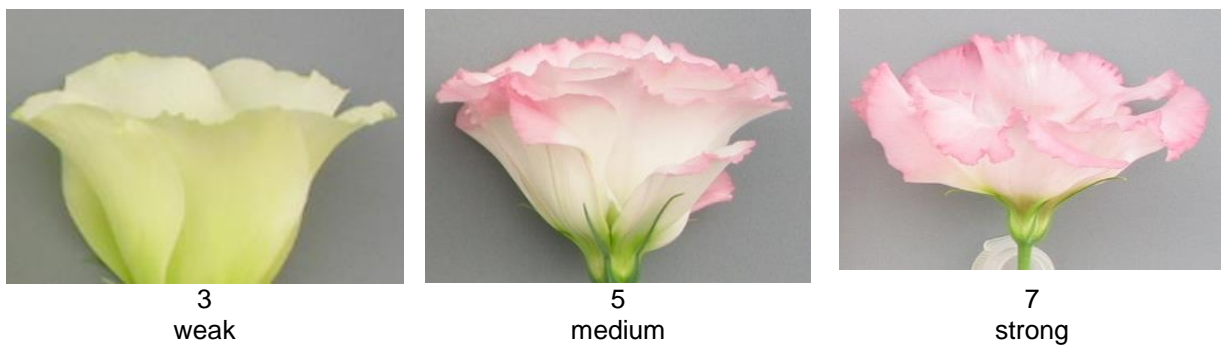


5  
retuse

Ad. 24: Petal : recurving of margin



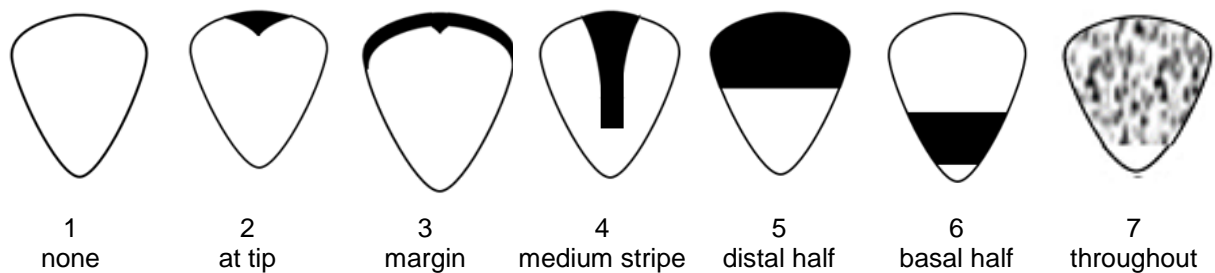
Ad. 25: Petal: undulation of margin



Ad. 26: Petal: depth of incisions of margin



Ad. 29: Petal: distribution of secondary color of inner side



Ad. 30: Petal: pattern of secondary color of inner side





1  
solid



2  
flushed



3  
irregular

Ad. 31: Petal: color of base of inner side



Ad. 33: Style: anthocyanin coloration



absent



present

Ad. 34: Only seed -propagated varieties: Time of beginning of flowering

The time of beginning of flowering is reached when at least 50% of plants have at least one open flower.

9. Literature

Kiyoshi Okawa, 1992: Eustoma (Torukogikyo) Seibundo-Shinkosha Co., Tokyo, JP.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)	
<p align="center"><b>TECHNICAL QUESTIONNAIRE</b> to be completed in connection with an application for plant breeders' rights</p>			
<p>1. Subject of the Technical Questionnaire</p> <p>1.1 Botanical name <span style="border: 1px solid black; padding: 2px;"><i>Eustoma exaltatum</i> (L.) Salisb. ex G. Don subsp. <i>russellianum</i> (Hook.) Kartesz</span></p> <p>1.2 Common name <span style="border: 1px solid black; padding: 2px;">Eustoma, Lisianthus</span></p>			
<p>2. Applicant</p> <p>Name <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p> <p>Address <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p> <p>Telephone No. <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p> <p>Fax No. <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p> <p>E-mail address <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p> <p>Breeder (if different from applicant) <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p>			
<p>3. Proposed denomination and breeder's reference</p> <p>Proposed denomination (if available) <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p> <p>Breeder's reference <span style="border: 1px solid black; display: inline-block; width: 300px; height: 15px;"></span></p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross [ ]

(please state parent variety)

(.....) 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)

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

- |     |                                |     |
|-----|--------------------------------|-----|
| (a) | Self-pollination               | [ ] |
| (b) | Cross-pollination              | [ ] |
| (c) | Hybrid                         | [ ] |
| (d) | Other (please provide details) | [ ] |

--

4.2.2 Vegetative propagation

- |     |                             |     |
|-----|-----------------------------|-----|
| (a) | Cuttings                    | [ ] |
| (b) | <i>In vitro</i> propagation | [ ] |
| (c) | Other (state method)        | [ ] |

--

4.2.3 Other [ ]  
(Please provide details)

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
<b>5.1 Plant: height (1)</b>		
very short		1 [ ]
very short to short		2 [ ]
short	Sase LIS02	3 [ ]
short to medium		4 [ ]
medium	Momo Sen	5 [ ]
medium to tall		6 [ ]
tall	Mio Peach Chuchu	7 [ ]
tall to very tall		8 [ ]
very tall		9 [ ]
<b>5.2 Flower: type (14)</b>		
single	Momo Sen	1 [ ]
double	Piccorosa Pink Picotee	2 [ ]
<b>5.3 Flower: width (18)</b>		
very narrow		1 [ ]
very narrow to narrow		2 [ ]
narrow	Chigusa	3 [ ]
narrow to medium		4 [ ]
medium	Momo Sen	5 [ ]
medium to broad		6 [ ]
broad	Rainbow White	7 [ ]
broad to very broad		8 [ ]
very broad		9 [ ]
<b>5.4(i) Petal: main color of <u>inner</u> side (27)</b>		
RHS Colour Chart (indicate reference number)		
<b>5.4(ii) Petal: main color of <u>inner</u> side (27)</b>		
white		1 [ ]
light green		2 [ ]
yellow		3 [ ]
orange		4 [ ]
pink		5 [ ]
red		6 [ ]
purple		7 [ ]
blue purple		8 [ ]
other (please indicate)		[ ]

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Characteristics	Example Varieties	Note
<b>5.5(i) Petal: secondary color of <u>inner</u> side (28)</b>		
RHS Colour Chart (indicate reference number)		
<b>5.5(ii) Petal: secondary color of <u>inner</u> side (28)</b>		
none		1 [ ]
white		2 [ ]
light green		3 [ ]
yellow		4 [ ]
orange		5 [ ]
pink		6 [ ]
red		7 [ ]
purple		8 [ ]
blue prurple		9 [ ]
other (please indicate)		[ ]
<b>5.6 Petal: distribution of secondary color of <u>inner</u> side (29)</b>		
none		1 [ ]
at tip	Komachi Kiss	2 [ ]
margin	Piccorosa Pink Picotee	3 [ ]
central bar		4 [ ]
distal half	Mahoroba Peach	5 [ ]
basal half	Cherrybee 2go	6 [ ]
throughout		7 [ ]
<b>5.7 Petal: color of base of <u>inner</u> side (31)</b>		
green	Chigusa	1 [ ]
violet	Momo Sen	2 [ ]
brown	Sase LIS02	3 [ ]

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6. Similar varieties and differences from these varieties

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

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Plant: height</i>	<i>short</i>	<i>medium</i>
Comments:			



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

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

Yes ☐ No ☐

(If yes, please provide details)

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

Yes ☐ No ☐

(If yes, please provide details)

7.3 Other information

A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.

The key points to consider when taking a photograph of the candidate variety are:

- Indication of the date and geographic location
- Correct labeling (breeder's reference)
- Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)"

Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (<http://www.upov.int/tgp/en/>).

[The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]

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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.

9. Information on plant material to be examined or submitted for examination

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

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

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

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

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

Applicant's name

Signature

Date

[End of document]