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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT**KALANCHOE**

UPOV Code: KALAN_BLO

KALAN_BLA

Kalanchoe blossfeldiana Poelln. and its hybrids**GUIDELINES****FOR THE CONDUCT OF TESTS****FOR DISTINCTNESS, UNIFORMITY AND STABILITY***prepared by an expert from Germany**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>Kalanchoe blossfeldiana</i> Poelln.	Kalanchoe	Kalanchoe	Flammendes Kätchen	

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 *Kalanchoe blossfeldiana* Poelln. as well as to hybrids between that species and other species of *Kalanchoe* Adans. of the family Crassulaceae.

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 unrooted cuttings.

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

20 unrooted cuttings

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. Four weeks after potting, the plants should receive a short day treatment for seven weeks. The day length during the short day treatment should be 9 hours.

3.3.2 The optimum stage of development for the assessment of the characteristics is at the time of full flowering.

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.

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

Unless otherwise indicated, all observations on single plants 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 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 2 off-types 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 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: type (characteristic 17)
- (b) Flower: number of colours (characteristic 22)
- (c) Corolla lobe: main colour (characteristic 23) with the following groups:
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: orange
 - Gr. 4: red
 - Gr. 5: purple
 - Gr. 6: blue pink

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), (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. (*)	Plant: height (including inflorescence)		Pflanze: Höhe (einschließlich Blütenstand)			
QN	very short		sehr niedrig			1
	short		niedrig			3
	medium		mittel			5
	tall		hoch			7
	very tall		sehr hoch			9
2. (*)	Plant: width		Pflanze: Breite			
QN	narrow		schmal			3
	medium		mittel			5
	broad		breit			7
3. (*)	Leaf: length (including petiole)		Blatt: Länge (einschließlich Blattstiel)			
QN (a)	short		kurz			3
	medium		mittel			5
	long		lang			7
4. (*)	Leaf: width		Blatt: Breite			
QN (a)	narrow		schmal			3
	medium		mittel			5
	broad		breit			7
5.	Leaf: shape		Blatt: Form			
(+) (a)	linear		linear			1
PQ	elliptic		elliptisch			2
	ovate		eiförmig			3
	tripartite pinnated		dreizählig gefiedert			4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6. (*)	Leaf: variegation		Blatt: Panaschierung			
QL	(a) absent		fehlend			1
	present		vorhanden			9
7. (*)	Leaf: green color of upper side		Blatt: Grünfärbung der Oberseite			
QN	(a) light		hell			3
	medium		mittel			5
	dark		dunkel			7
8. (*)	Leaf: anthocyanin coloration		Blatt: Anthocyanfärbung			
QN	(a) absent or very weak		fehlend oder sehr gering			1
	weak		gering			3
	medium		mittel			5
	strong		stark			7
9.	Leaf: cross section		Blatt: Querschnitt			
PQ	(a) concave		konkav			3
	flat		gerade			5
	convex		konvex			7
10.	Leaf: thickness		Blatt: Dicke			
QN	(a) thin		dünn			3
	medium		mittel			5
	thick		dick			7
11. (+)	Leaf: number of incisions of margin		Blattspreite: Anzahl der Randeinschnitte			
QN	(a) absent or very few		fehlend oder sehr gering			1
	few		gering			3
	medium		mittel			5
	many		groß			7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12. (+)	Leaf: depth of incisions of margin		Blattspreite: Tiefe der Randeinschnitte			
QN	(a)	absent or very shallow	fehlend oder sehr flach			1
		shallow	flach			3
		medium	mittel			5
		deep	tief			7
13.	Leaf: attitude of apex		Blatt: Haltung der Spitze			
QN	(a)	incurving	aufgebogen			3
		straight	gerade			5
		reflexing	zurückgebogen			7
14.	Flowering shoot: number of flowers of the highest pleiochasium		Blühender Trieb: Anzahl der Blüten der obersten Trugdolde			
		low	gering			3
		medium	mittel			5
		high	groß			7
15.	Flowering shoot: width of the highest pleiochasium		Blühender Trieb: Breite der obersten Trugdolde			
		narrow	schmal			3
		medium	mittel			5
		broad	breit			7
16. (+)	Young flower: main color of upper side of corolla lobes (if clearly different from the color of the corolla lobes of the fully developed flower)		Junge Blüte: Farbe der Oberseite der Kronzipfel (nur wenn Farbe deutlich unterschiedlich zur Farbe der Kronzipfel der ausgewachsenen Blüte)			
PQ	(b)	RHS Colour Chart (indicate reference number)	RHS-Farbkarte (Nummer angeben)			

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17. (*) (+)	Flower: type		Blüte: Typ			
QL	single		einfach			1
	double		gefüllt			2
18. (*)	<u>Only varieties with double flowers:</u> Flower: number of corolla lobes		<u>Nur Sorten mit gefüllten Blüten:</u> Blüte: Anzahl Kronzipfel			
QN	very few		sehr gering			1
	few		gering			3
	medium		mittel			5
	many		hoch			7
19. (*)	Flower: diameter		Blüte: Durchmesser			
QN	small		klein			3
	medium		mittel			5
	large		groß			7
20.	<u>Only varieties with single flowers:</u> Corolla lobes: length		<u>Nur Sorten mit einfachen Blüten:</u> Kronzipfel: Länge			
QN (b)	short		kurz			3
	medium		mittel			5
	long		lang			7
21.	<u>Only varieties with single flowers:</u> Corolla lobes: width		<u>Nur Sorten mit einfachen Blüten:</u> Kronzipfel: Breite			
QN (b)	narrow		schmal			3
	medium		mittel			5
	broad		breit			7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (*)	Corolla lobes: number of colors		Kronzipfel: Anzahl Farben			
QL	(b) one		eine			1
	two		zwei			2
	more than two		mehr als zwei			3
23. (*) (+)	Corolla lobes: main color of upper side		Kronzipfel: Hauptfarbe der Oberseite			
PQ	(b) RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			
24. (*)	Corolla lobes: secondary color of upper side		Kronzipfel: Sekundärfarbe der Oberseite			
PQ	(b) RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			
25. (*) (+)	Corolla lobes: distribution of secondary color		Kronzipfel: Verteilung der Sekundärfarbe			
PQ	(b) mainly on one half of the corolla lobes		hauptsächlich auf einer Hälfte des Kronzipfels			1
	median stripe		als Mittelstreifen			2
	at base and as median stripe		an der Basis und als Mittelstreifen			3
	at base		an der Basis			4
	at base and at margin		an der Basis und am Rand			5
	speckles		gesprenkelt			6
26.	<u>Only varieties with single flowers:</u> Corolla lobes: color of <u>lighter</u> part of lower side		<u>Nur Sorten mit einfachen Blüten:</u> Kronzipfel: Farbe des <u>helleren</u> Teils der Unterseite			
PQ	(b) RHS Colour Chart (indicate reference number)		RHS-Farbkarte (Nummer angeben)			

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27.	Corolla lobes: color of <u>darker</u> part of lower side		Kronzipfel: Farbe des dunkleren Teils der Unterseite			
PQ	(b)	RHS Colour Chart (indicate reference number)	RHS-Farbkarte (Nummer angeben)			
28.	Time of beginning of flowering		Zeitpunkt des Blühbeginns			
QN	early		früh			3
	medium		mittel			5
	late		spät			7
29.	Response group		Wochengruppe			
QN	< 8 weeks		< 8 Wochen			1
	8 weeks		8 Wochen			3
	9 weeks		9 Wochen			5
	10 weeks		10 Wochen			4
	11 weeks		11 Wochen			5
	12 weeks		12 Wochen			6
	13 weeks		13 Wochen			7
	14 weeks		14 Wochen			8
	> 14 weeks		> 14 Wochen			9

8. Explanations on the Table of Characteristics

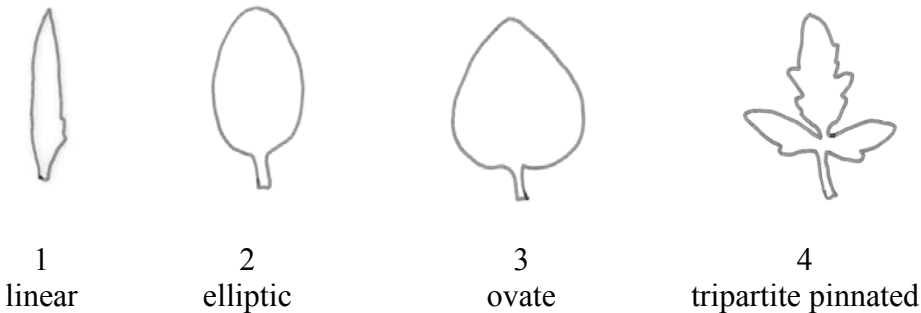
8.1 *Explanations covering several characteristics*

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

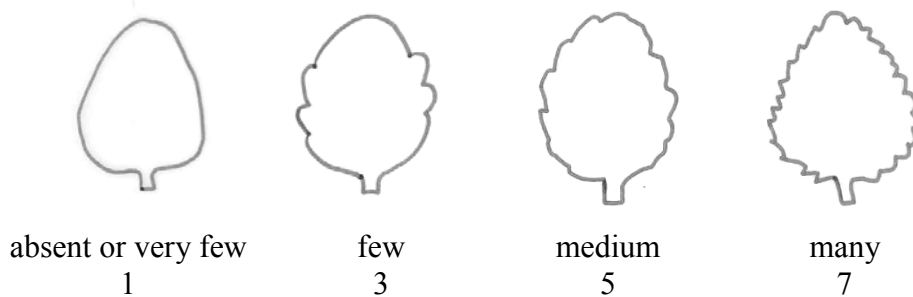
- (a) Leaf: observations on the leaf should be made on a fully developed leaf from the middle part of the plant.
- (b) Corolla lobes: observations on the corolla lobes should be made on a fully developed flower. Observations on the corolla lobes of double flowers should be made on the outer most whirl of the corolla lobes.

8.2 *Explanations for individual characteristics*

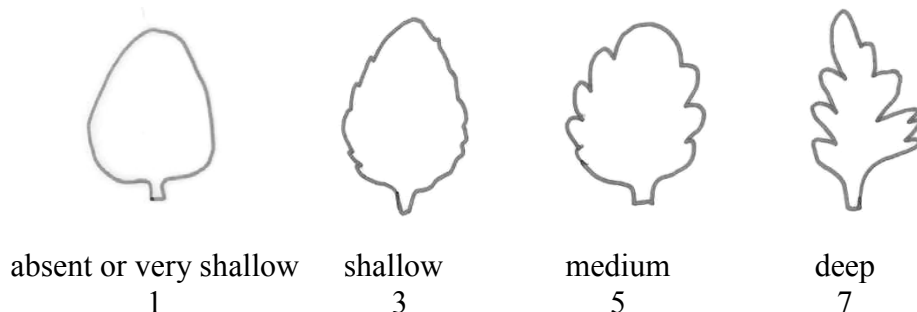
Ad. 5: Leaf: shape



Ad. 11: Leaf: number of incisions of margin



Ad. 12: Leaf: depth of incisions of margin



Ad. 16: Young flower: main color of upper side of corolla lobes

Observations on the young flower should be made when the corolla lobes have just opened.

Main color: color of the largest area of the corolla lobe. If the area of the colors is nearly half and half, the darker color is the main color. In double flowers the color of the inner most whirl of the corolla lobes is described.

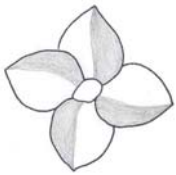
Ad. 17: Flower: type

A single flower has four corolla lobes only. A double flower has more than four corolla lobes.

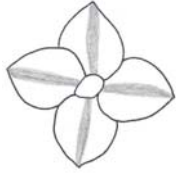
Ad. 23: Corolla lobes: main color of upper side

Main color: color of the largest area of the corolla lobe. If the area of the colors is nearly half and half, the darker color is the main color.

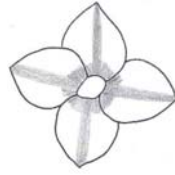
Ad. 25: Corolla lobes: distribution secondary color



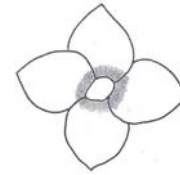
mainly on one half
1



median stripe
2



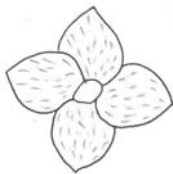
at base and as median stripe
3



at base
4



at base and at margin
5



speckles
6

9. Literature

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		
1.1.1 Botanical name	<input type="text" value="Kalanchoe blossfeldiana Adans."/>	[]
1.1.2 Common name	<input type="text" value="Kalanchoe"/>	
Hybrid: please indicate name(s) of species used in the crossing		
1.2.1 Botanical name	<input type="text" value="K. blossfeldiana x"/>	[]
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:
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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 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)

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 Seed

4.2.3 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:
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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
5.1 Plant: height (including inflorescence) (1)		
very short		1[]
short		3[]
medium		5[]
tall		7[]
very tall		9[]
5.2 Leaf: anthocyanin coloration (8)		
absent or very weak		1[]
weak		3[]
medium		5[]
strong		7[]
5.3 Flower: type (17)		
single		1[]
double		2[]
5.4 <u>Only varieties with double flowers:</u> (18) Flower: number of corolla lobes		
very few		1[]
few		3[]
medium		5[]
many		7[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>5.5 Corolla lobes: number of colors (22)</p> <p style="margin-left: 40px;">one 1[]</p> <p style="margin-left: 40px;">two 2[]</p> <p style="margin-left: 40px;">more than two 3[]</p>		
<p>5.6i Corolla lobes: main color of upper side (23)</p> <p style="margin-left: 40px;">RHS Colour Chart (indicate reference number)</p>		
<p>5.6ii Corolla lobes: main color of upper side (23)</p> <p style="margin-left: 40px;">white 1[]</p> <p style="margin-left: 40px;">yellow 2[]</p> <p style="margin-left: 40px;">orange 3[]</p> <p style="margin-left: 40px;">red 4[]</p> <p style="margin-left: 40px;">purple 5[]</p> <p style="margin-left: 40px;">blue pink 6[]</p> <p style="margin-left: 40px;">other (indicate color)</p>		
<p>5.7i Corolla lobes: secondary color of upper side (24)</p> <p style="margin-left: 40px;">RHS Colour Chart (indicate reference number)</p>		
<p>5.7ii Corolla lobes: secondary color of upper side (24)</p> <p style="margin-left: 40px;">white 1[]</p> <p style="margin-left: 40px;">yellow 2[]</p> <p style="margin-left: 40px;">orange 3[]</p> <p style="margin-left: 40px;">red 4[]</p> <p style="margin-left: 40px;">purple 5[]</p> <p style="margin-left: 40px;">blue pink 6[]</p> <p style="margin-left: 40px;">other (indicate color)</p>		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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5.8 Corolla lobes: distribution of secondary color (25)	
mainly on one half of the corolla lobes	1[]
median stripe	2[]
at base and as median stripe	3[]
at base	4[]
at base and at margin	5[]
speckles	6[]
other distribution (indicate)	

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 your candidate variety
<i>(Example)</i>	<i>Flower: number of colors</i>	<i>one</i>	<i>two</i>

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

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

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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]