

**UPOV**

TG/29/7(proj.2)

ORIGINAL: English

DATE: July 28, 2005

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

GENEVA

**DRAFT**

**ALSTROEMERIA**

UPOV Code: ALSTR

*(Alstroemeria L.)*

**GUIDELINES**

**FOR THE CONDUCT OF TESTS**

**FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

*prepared by an expert from the Netherlands*

*to be considered by the  
Technical Working Party for Ornamental Plants and Forest Trees  
at its thirty-eight session,  
to be held in Seoul, Korea, from September 12 to 16, 2005*

Alternative Names:\*

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Alstroemeria L.</i>	Alstroemeria, Herb Lily	Alstroemère, Lis des Incas	Inkalilie	Alstromeria

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

These Test Guidelines apply to all varieties of *Alstroemeria* L. of 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 plants or seed.

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

- for vegetatively propagated varieties: 8 plants
- for seed-propagated varieties: 250 seeds

2.4 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.

2.5 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.6 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. In particular, unless otherwise indicated, all observations should be made on fully grown, typical organs at the time of full flowering

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.

#### 3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least eight plants (vegetatively propagated varieties) or 50 plants (seed-propagated varieties).

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*

3.5.1 Vegetatively propagated varieties: unless otherwise indicated, all observations on single plants should be made on eight plants or parts taken from each of eight plants and any other observations made on all plants in the test.

3.5.2 Seed-propagated varieties: unless otherwise indicated, all observations on single plants should be made on 50 plants or parts taken from each of 50 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 Vegetatively propagated varieties: for the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of eight plants, one off-type is allowed.

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

#### 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 seed or 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) Plant: height (characteristic 1)
- (b) Flower: main color (characteristic 8)

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*

(\*) Asterisk characteristic – see Chapter 6.1.2

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-qualitative characteristic – see Chapter 6.3

(a) 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/MerkmalstabelléTabla de caracteres

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1.</b> (*)	<b>Plant: height</b>					
<b>QN</b>	short				Zanspot, Koglow	3
	medium				Prealpech, Koanti	5
	tall				Teswhite, Kofuji	7
<b>2.</b>	<b>Stem: thickness</b>					
<b>QN</b>	thin				Zaprijul, Koanti	3
	medium				Tesdoro, Tesfortun	5
	thick				Kofuji, Tescow	7
<b>3.</b>	<b>Leaf: length</b>					
<b>QN</b>	short				Zaprijul, Zanrina	3
	medium				Stasach, Kofuji, Tessalm	5
	long				Teswhite, Tesdoro	7
<b>4.</b>	<b>Leaf: width</b>					
<b>QN</b>	narrow				Teswhite, Koglow	3
	medium				Statiren, Zalsaccept, Koudrey	5
	broad				Kofuji, Tesdoro	7
<b>5.</b> (*) (+)	<b>Umbel: number of branches</b>					
<b>QN</b>	few				Staprisis, Koglow, Zapribel	3
	medium				Statiren, Teswhite, Zalsaccept	5
	many				Tescow, Tessalm	7



English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>6.</b> (*) (+)	<b>Umbel: length of branches</b>				
<b>QN</b>	short			Staprisis, Koglow, Little Moon	3
	medium			Stamond, Zalsaccept, Kofuji	5
	long			Stasach, Tescow, Tesamad	7
<b>7.</b> (*) (+)	<b>Flower: length of pedicel</b>				
<b>QN</b>	(a) short			Staprilan, Zalsamot, Prealpech	3
	medium			Stasach, Zalsaccept, Tesdoro	5
	long			Teswhite, Zaprijul	7
<b>8.</b> (*)	<b>Flower: main color</b>				
<b>PQ</b>	(a) white			Stamond, Teswhite	1
	light yellow			Koanti	2
	medium yellow			Staprilan, Tespluto	3
	greenish			Kofuji	4
	orange			Little Moon	5
	orange red			Zapribel	6
	red			Stasach, Staflam	7
	light pink			Prealpech	8
	medium pink			Staprisis, Tescow	9
	purple pink				10
	red purple			Tesamad	11
	light purple			Zapriko	12
	medium purple			Zalsamot	13
	dark purple			Tesamad	14

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>9.</b> (*)	<b>Flower: size</b>				
<b>QN</b>	(a) small			Elegance, Tespluto	3
	medium			Stasach, Zalsamot, Koglow	5
	large			Statiren, Tesdoro, Tescow	7
<b>10.</b> (*)	<b>Outer tepal: shape of blade</b>				
<b>PQ</b>	(a) medium elliptic			Zalsanion, Zanmirac	1
	broad elliptic			Teswhite, Zanbritta	2
	circular			Stamond, Gamanda	3
	medium obovate			Tesdoro, Prealpech	4
	broad obovate			Statiren, Zalsaccept, Koglow	5
<b>11.</b> (*)	<b>Outer tepal: depth of emargination</b>				
<b>QN</b>	(a) shallow			Stasach, Teswhite, Koglow	3
	medium			Tesamad, Zalsamay	5
	deep			Zaprijul, Tessalm	7
<b>12.</b> (*)  (+)	<b>Outer tepal: main color of <u>central</u> zone</b>				
<b>PQ</b>	(a) RHS Colour Chart (indicate reference number)				
<b>13.</b> (*) (+)	<b>Outer tepal: main color of <u>top</u> zone (green tip excluded)</b>				
<b>PQ</b>	(a) RHS Colour Chart  (indicate reference number)				

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>14.</b> (*) <b>Outer tepal: main color of <u>lateral</u> zone</b>  (+)					
<b>PQ</b> (a) RHS Colour Chart (indicate reference number)					
<b>15.</b> (*) <b>Outer tepal: main color of <u>basal</u> zone</b>  (+)					
<b>PQ</b> (a) RHS Colour Chart (indicate reference number)					
<b>16.</b> (*) <b>Outer tepal: very small or small stripes on marginal part of lateral zone of upper side of blade</b>					
<b>QL</b> (a) absent				Koanti	1
present				Statistrip	9
<b>17.</b> (*) <b>Outer tepal: large or very large stripes on upper side of blade (marginal zone excluded)</b>					
<b>QL</b> (a) absent				Zalsamot	1
present				Prealpech	9
<b>18.</b> (*) <b>Outer tepal: number of large or very large stripes on upper side of blade(marginal zone excluded)</b>					
<b>QN</b> (a) few				Sratistrip	3
medium				Prealbour	5
many				Prealpech	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>19.</b> (*)	<b>Inner tepal: shape of blade</b>				
<b>QL</b>	(a) elliptic			Statiren, Teswhite, Tessalm	1
	obovate			Zalscept, Kofuji	2
<b>20.</b> (*) (+)	<b>Inner lateral tepal: size of striped zone on upper side of blade ( top part of tepal excluded)</b>				
<b>QN</b>	(a) small			Fuego	3
	medium			Teswhite	5
	large			Prealbour	7
<b>21.</b> (*)	<b>Inner lateral tepal: main color of striped zone on upper side of blade (as for 20)</b>				
<b>PQ</b>	(a) RHS Colour Chart (indicate reference number)				
<b>22.</b> (*)	<b>Inner lateral tepal: number of stripes on upper side of blade(as for 20)</b>				
<b>QN</b>	(a) absent or few			Staqueen, Koanti	1
	medium			Stamond, Tesdoro, Tessalm	2
	many			Prealpech, Preallad	3
<b>23.</b> (*)	<b>Inner lateral tepal: length of longest stripes on upper side of blade (as for 20)</b>				
<b>QN</b>	(a) short			Koanti	3
	medium			Koice	5
	long			Prealbour	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
<b>24.</b> (*)	<b>Inner lateral tepal: width of widest stripes on upper side of blade (as for 20)</b>					
<b>QN</b>	(a) narrow			Teswhite	3	
	medium			Stapricamil	5	
	broad			Zanfier	7	
<b>25.</b> (*)	<b>Inner median tepal: difference in striped pattern to inner lateral tepal</b>					
<b>QL</b>	(a) absent			Tesdoro	1	
	present			Stapricamil	9	
<b>26.</b> (*)	<b>(a) Filament: main colour</b>					
<b>PQ</b>	white			Teswhite, Zalsarest	1	
	yellow			Tesfortun, Zanbritta	2	
	orange			Zanrina, Tespluto	3	
	orange red			Tessalm, Staqueen	4	
	red			Tescow, Macondo	5	
	pink			Stamond, Kofuji, Tampa	6	
	red purple			Preallad, Tesbay	7	
	light purple			Koglow, Zaprijul	8	
	medium purple			Zalsamot, Tesazur	9	
<b>27.</b>	<b>(a) Filament: small spots</b>					
<b>QL</b>	absent			Tesdoro, Kofuji	1	
	present			Gamanda, Staneltor	9	

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>28. Anther: color at the start of dehiscence</b>					
<b>(*)</b>					
<b>PQ</b>	<b>(a)</b>				
	yellowish			Green Bell, Zanpri	1
	greenish			Staprinag, Koglow, Tespro	2
	orange			Zaprijul, Tessalm	3
	purplish			Zanrina, Stapripame	4
	brownish			Kofuji, Tesdoro	5
	medium grey			Zapribel, Tesazur	6
	dark grey				7
	blue			Carmelita	8
<b>29. Ovary: anthocyanin coloration</b>					
<b>(*)</b>					
<b>(+)</b>					
<b>QL</b>	absent			Tesdoro	1
	present			Pealpech	9
<b>30. Ovary: intensity of anthocynin coloration</b>					
<b>(*)</b>					
<b>(+)</b>					
<b>QN</b>	weak			Staprilan, Ivory, Stadicrem	3
	moderate			Tescow, Zaprijul,	5
	strong			Tesazur, Prealpech	7

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

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

- (a) All observations on the flower should be made at the time of dehiscence of some of the anthers in an individual flower.

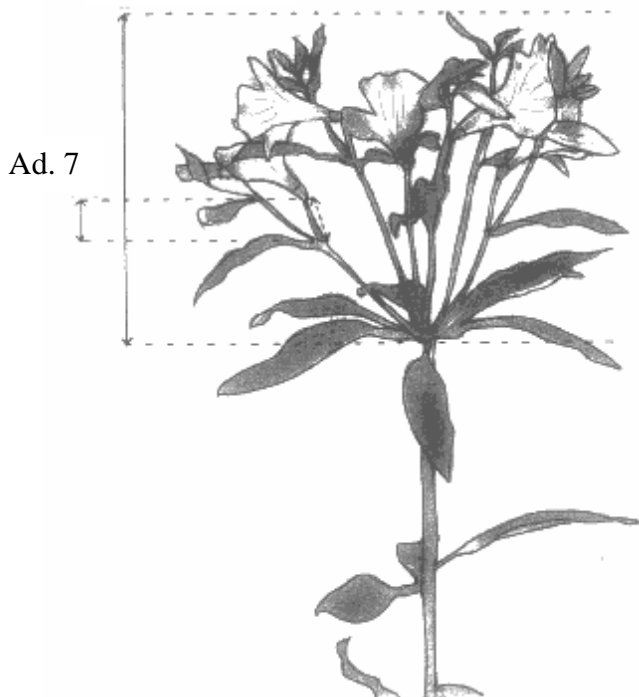
8.2 *Explanations for individual characteristics*

Ad. 5: Umbel: number of branches

Ad. 6: Umbel: length of branches

Ad. 7: Flower: length of pedicel

Ad. 5, 6:



Ad. 5, 6: Umbel: number of branches (5); length of branches (6)

Ad. 7: Flower: length of pedicel

Ad. 7: Flower: length of pedicel:

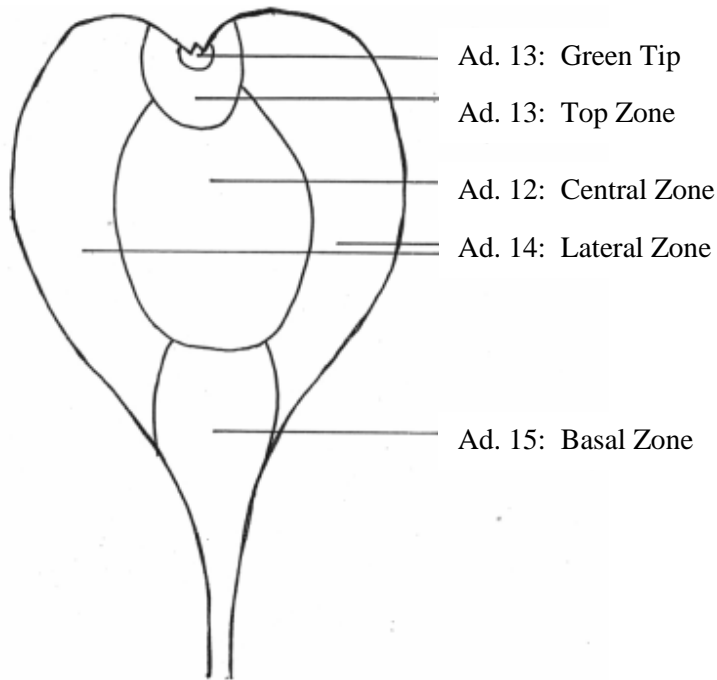
To be observed at the opening of the first flower on the umbel branch.

Ad. 12: Outer tepal: main color of **central** zone

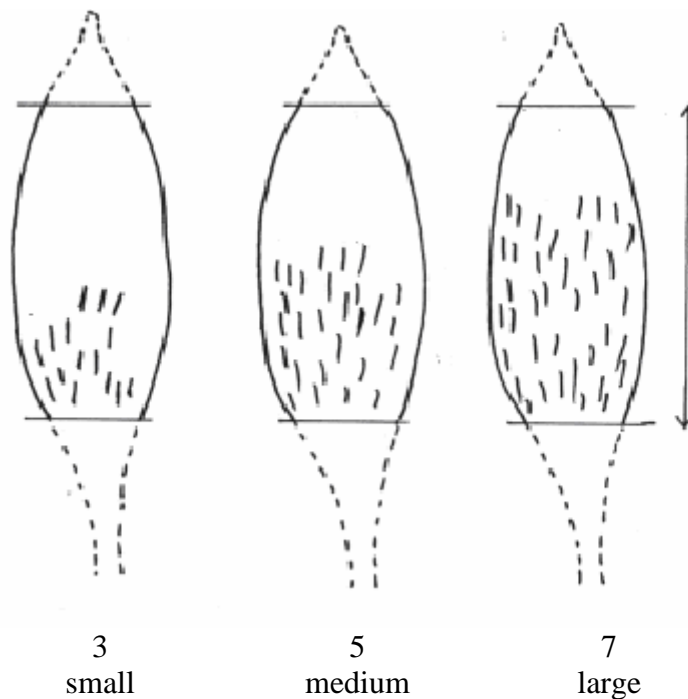
Ad. 13: Outer tepal: main color of **top** zone (green tip excluded)

Ad. 14: Outer tepal: main color of **lateral** zone

Ad. 15: Outer tepal: main color of **basal** zone



Ad. 20: Inner lateral tepal: size of striped zone on upper side of blade (top part excluded)



Ad. 29 and 30: Ovary: intensity of anthocyanin coloration: Anthocyanin should be observed over the whole surface, including ribs.



9. Literature

The Royal General Bulbgrowers' Association, 1991: "International Checklist for Hyacinths and Miscellaneous Bulbs" (International Register and Classified List of Hyacinths and other bulbous, cormous and tuberous plants), Koninklijke Algemeene Vereeniging voor Bloembollencultuur, Hillegom, NL

Grunert, Christian, 1980: "Das Blumenzwiebelbuch", Verlag Eugen Ulmer, Stuttgart, DE

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<b>TECHNICAL QUESTIONNAIRE</b> to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<input type="text" value="Alstroemeria L."/>	
1.2 Common name	<input type="text" value="ALSTROEMERIA"/>	
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)

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# 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
<b>5.1 Plant: height</b> (1)		
short	Zanspot, Koglow	3[ ]
medium	Prealpech, Koanti	5[ ]
tall	Teswhite, Kofuji	7[ ]
<b>5.2 Flower: main color</b> (8)		
white	Stamond, Teswhite	1[ ]
light yellow	Koanti	2[ ]
medium yellow	Staprilan, Tespluto	3[ ]
greenish	Kofuji	4[ ]
orange	Little Moon	5[ ]
orange red	Zapribel	6[ ]
red	Stasach, Staflam	7[ ]
light pink	Prealpech	8[ ]
medium pink	Staprisis, Tescow	9[ ]
purple pink		10[ ]
red purple	Tesamad	11[ ]
light purple	Zapriko	12[ ]
medium purple	Zalsamot	13[ ]
dark purple	Tesamad	14[ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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>Flower: main color</i>	<i>light pink</i>	<i>medium pink</i>

Comments:

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

7.3.1 Use:

Pot plant

Cut flower

Garden plant

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.

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# 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.

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 or pesticide) | Yes [ ] | No [ ] |
| (c) Tissue culture  | Yes [ ] | No [ ] |
| (d) Other factors   | Yes [ ] | No [ ] |

Please provide details of 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]