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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

DRAFT

POINSETTIA

UPOV Code: EUPHO PUL

Euphorbia pulcherrima Willd. ex Klotzsch

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Denmark

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:

Botanical nameEnglishFrenchGermanSpanishEuphorbia pulcherrima
Willd. ex KlotzschPoinsettiaPoinsettiaPoinsettie,
WeihnachtssternFlor de Pascua

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. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Euphorbia pulcherrima* Willd. ex Klotzsch

2. <u>Material Required</u>

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

10 rooted 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. The plants should receive a short day treatment. The day length during the short day treatment should be 10 hours.
- 3.3.2 The optimum stage of development for the assessment of the characteristics is at the time of opening of three cyathia.
- 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 10 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 should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.

3.6 Additional Tests

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

4. Assessment of Distinctness, Uniformity and Stability

4.1 Distinctness

4.1.1 General Recommendations

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

4.1.2 Consistent Differences

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

4.1.3 Clear Differences

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

4.2 Uniformity

- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 plants, 1 off-type is allowed.

4.3 Stability

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable
- 4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
 - (a) Stem: color (characteristic 5)
 - (b) Leaf blade: number of colors (characteristic 11)
 - (c) Bract: number of colors (characteristic 35)
 - (d) Varieties with more than one color:

Bract: color pattern of upper side (characteristic 36)

- (e) <u>Varieties with one color only:</u>
 - Bract: color of upper side (characteristic 37)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. <u>Introduction to the Table of Characteristics</u>

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. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. (*)	Plant: branching	Plante: ramifications	Pflanze: Verzweigung			
QL	absent	absentes	fehlend			1
	present	présentes	vorhanden			9
2. (*)	Plant: number of branches	Plante: nombre de ramifications	Planze: Anzahl der Verzweigungen			
QN	few	petit	gering			3
	medium	moyen	mittel			5
	many	grand	gross			7
3. (*)	Plant: height	Plante : hauteur	Pflanze: Höhe			
QN	short	Basse	Neidrig			3
	medium	Moyenne	Mittel			5
	tall	haute	hoch			7
4.	Plant: width	Plante : largeur	Pflanze: Breite			
QN	narrow	étroite	schmal			3
	medium	moyenne	mittel			5
	broad	large	breit			7
5. (*)	Stem: color	Tige: couleur	Stengel: Farbe			
QL	greenish	Verdâtre	Grünlich			1
	reddish	Rougeâtre	rötlich			2
6. (*)	Stem: intensity of color					
QN	weak					3
	medium					5
	strong					7

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)		Leaf blade: length	Limbe: longueur	Blattspreite: Länge			
QN	(a)	very short	très court	sehr kurz			1
		short	court	kurz			3
		medium	moyen	mittel			5
		long	long	lang			7
		very long	très long	sehr lang			9
8. (*)		Leaf blade: width	Limbe: largeur	Blattspreite: Breite			
QN	(a)	narrow	étroit	schmal			3
		medium	moyen	mittel			5
		broad	large	breit			7
9. (*) (+)		Leaf blade: shape	Limbe: forme	Blattspeite: Form			
PQ	(a)	elliptic	elliptique	elliptisch			1
		obovate	obovale	verkehrt eiförmig			3
		ovate	ovale	eiförmig			4
		deltoid	triangulaire	breit drei			5
10. (*)		Leaf blade: shape of base	Limbe: forme de la base	Blattspreite: Form der Basis			
PQ	(a)	truncate	droite	gerade			1
		rounded	arrondie	abgerundet			2
		wedge-shaped	cunéiforme	keilförmig			3
11. (*)		Leaf blade: number of colors					
QN	(a)	one					1
		two					2
		more than two					3

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12. (*)		Varieties with one- colored leaves only: Leaf blade:					
QN	(a)	green color					1
		very light					3
		light					5
		medium					7
		dark					9
		very dark					
13. (*)		Varieties with two- or multicolored leaves only: Leaf blade: main color					
PQ	(a)	light yellowish green					1
		light green					2
		medium green					3
		greyish green					4
		dark green					5
		very dark green					6
14. (*)		Varieties with bi- or multicolored leaves only: Leaf blade: Secondary color					
PQ	(a)	white					1
		yellowish white					2
		light yellowish green					3
		light green					4
		medium green					5
		greyish green					6
		dark green					7
		very dark green					8

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
15, (*)		Varieties with bi- or multicolored leaves only: Leaf blade: distribution of secondary color					
QN	(a)	near main vein					1
		near margin					2
16.		Varieties with multicolored leaves only: Leaf blade: tertiary color					
PQ	(a)	white					1
		yellowish white					2
		light yellowish green					3
		light green					4
		medium green					5
		greyish green					6
		dark green					7
		very dark green					8
17. (*)		Varieties with bi- or multicolored leaves only: Leaf blade: area of main color compared to area of other color(s)					
QN	(a)	very small					1
		small					3
		medium					5
		large					7
		very large					9
18. (*)		Leaf blade: color of main vein on upper side	Limbe : couleur des nervures de la face <u>supérieur</u>	Blattspreite: Far der Adern auf de <u>Ober</u> seite			
QL	(a)	greenish	verdâtre	grünlich			1
		reddish	rougeâtre	rötlich			2

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (*)		Leaf blade: color of main vein on lower side	Limbe : couleur des nervures de la face <u>inférieure</u>	Blattspreite: Farbe der Adern auf der <u>Unterseite</u>			
QL	(a)	greenish	verdâtre	grünlich			1
		reddish	rougeâtre	rötlich			2
20. (*) (+)		Leaf blade: number of lobes					
QN	(a)	absent or very few					1
		few					3
		medium					5
		many					7
		very many					9
21. (*) (+)		Leaf blade: maximum depth of sinus					
(QN)	(a)	shallow					3
		medium					5
		deep					7
22. (*)		Petiole: length	Pétiole : longueur	Blattstiel: Länge			
QN	(b)	short	court	kurz			3
		medium	moyen	mittel			5
		long	long	lang			7
23. (*)		Petiole: color of upper side	Pétiole : couleur de la face <u>supérieure</u>	Blattsteiel: Farbe der <u>Ober</u> seite			
QL	(b)	greenish	verdâtre	grünlich			1
		reddish	rougeâtre	rötlich			2
25. (*)		Petiole: color of lower side	Pétiole : couleur de la face <u>inférieure</u>	Blattsteiel: Farbe der <u>Unter</u> seite			
QL	(b)	greenish	verdâtre	grünlich			1
		reddish	rougeâtre	rötlich			2

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	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
26. (*)	Petiole: intensity of color of <u>lower</u> side					
QN (b)	weak					3
	medium					5
	strong					7
27. (*)	Transitional leaves: number of partly bract colored leaf blade					
QN	absent or very few					1
	few					3
	medium					5
	many					7
28. (*)	Transitional leaves: number of fully bract colored leaf blade					
QN	few					3
	medium					5
	many					7
29. (*)	Transitional leaves: lobes					
QL	absent					
	present					
30. (*)	Transitional leaves: distance between the highest and lowest transitional leaf blade	,				
	short	petite	gering		Oslo	3
	medium	moyenne	mittel		Annette Hegg	5
	long	grande	gross		Cardinal	7

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	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31. (*)	Bracts: number					
QN	few					3
	medium					5
	many					7
32. (*)	Bract: length of largest bract (petiole included)	Bractée la plus grande : longueur (pétiole compreis)	Grösstes Hochblatt: Länge (einschliesslich des Stiels)			
QN	short	courte	kurz			3
	medium	moyenne	mittel			5
	long	longue	lang			7
33. (*)	Bract: width of largest bract	Bractée la plus grande : largeur	Grösstes Hochblatt: Breite			
QN	narrow	étroite	schmal			3
	medium	moyenne	mittel			5
	broad	large	breit			7
34. (*)	Largest bract: shape					
PQ	obovate					1
	oblanceolate					2
	lanceolate					3
	elliptic					4
	ovate					5
35. (*)	Bract: number of colors of upper side					
PQ	one					1
	two					2
	more than two					3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
36.	Varieties with more than one color: Bract: color patters of upper side	1				
PQ	marbled					1
	spotted					2
37. (*)	Varieties with one color only: Bract: color of upper side					
PQ	RHS Colour Chart (indicate reference number)					
38. (*)	Marbled colored varieties only; Bract: main color o middle Zone of upper side	f				
PQ	RHS Colour Chart (indicate reference number)					
39. (*)	Marbled colored varieties only; Bract: secondary color of middle Zono of upper side	è				
PQ	RHS Colour Chart (indicate reference number)					
40. (*)	Marbled colored varieties only; Bract: main color o marginal Zone of upper side	f				
PQ	RHS Colour Chart (indicate reference number)					
41. (*)	Spotted varieties only; Bract: color o main color of upper side					
PQ	RHS Colour Chart (indicate reference number)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
42. (*)	Spotted varieties only; Bract: color of spots of upper side of bracts	f				
PQ	RHS Colour Chart (indicate reference number)					
43. (*)	One colored varieties only; Bract: color of lower side of bracts	<u>:</u>				
PQ	RHS Colour Chart (indicate reference number)					
44. (*)	Marbled colored varieties only; Bract: main color of middle zone of lower side					
PQ	RHS Colour Chart (indicate reference number)					
45 (*)	Marbled colored varieties only; Bract: secondary color of middle zone of lower side					
PQ	RHS Colour Chart (indicate reference number)					
46. (*)	Marbled colored varieties only; Bract: main color of marginal zone of lower side					
PQ	RHS Colour Chart (indicate reference number)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
47. (*)	Spotted varieties only; Bract: color o main color of <u>lower</u> side	f				
PQ	RHS Colour Chart (indicate reference number)					
48. (*)	Spotted varieties only; Bract: color o spots of <u>lower</u> side o bracts					
PQ	RHS Colour Chart (indicate reference number)					
49.	Bract: folding	Bractée : pliage	Hochblatt: Faltung			
QL	absent	absent	fehlend			1
	present	présent	vorhanden			9
50.	Bract: curving	Bractée : courbure	Hochblatt: Krümmung			
QL	absent	absent	fehlend			1
	present	présent	vorhanden			9
51.	Bract: twisting	Bractée: torsion	Hochblatt: Drehung	;		
QL	absent	absent	fehlend			1
	present	présent	vorhanden			9
52. (*)	Bract: intensity of rugosity between veins	Bractée : intensité de la coloqûre entre les nervures	Hochblatt: Stärke der Wölgung zwischen den Nerven			
	absent or very weak					1
	weak	faible	gering			3
	medium	moyenne	mittel			5
	strong	forte	stark			7
	very strong					9

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	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
53. (*)	Cyme: width	Cyme: largeur	Trugdolde: Breit			
QN	narrow	étroite	schmal			3
	medium	moyenne	mittel			5
	broad	large	breit			7
54. (*)	Cyathium: size of glands	Cyathium: taille des glandes	Cyathium: Grösse der Drüsen			
	small	petites	schmal			3
	medium	moyennes	mittel			5
	large	grandes	gross			7
55. (*)	Cyathium: color of glands	Cyathium: couleur des glandes	Cyathium: Farbe der Drüsen			
	greenish yellow	jaune-vert	grüngelb			1
	yellow	jaunes	gelb			2
	orange	orange	orange			3
	red					4
56.	Cyathium: red coloration of margin of glands	1				
QN	absent or very light					1
	light					3
	medium					5
	dark					7
	very dark					9
57.	Time of opening of first three cyathia	Époque d'ouverture des trois premiers cyathiums	Zeitpunnkt der Oeffnung der ersten drei Cyathien	ı		
QN	early	précoce	früh			3
	medium	moyenne	mittel			5
	late	tardive	spät			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) <u>Leaf</u>: observations on the leaf should be made on a fully developed leaf from the upper part of the plant.
- (b) <u>Petiole</u>: observations on the petiole should be made on a fully developed leaf from the upper part of the plant.

8.2 Explanations for individual characteristics

Ad. 9: Leaf blade: shape

1 2 3 4 elliptic obovate ovate deltoid

Ad. 20: Leaf blade: number of lobes

absent or very few few medium many 1 5 7

Ad. 21: Leaf blade: maximum depth of lobes

shallow medium deep 3 5 7

9. <u>Literature</u>

10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNA	RE	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					
Subject of the Technical Questionnaire					
1.1.1 Botanical name	Eu	Euphorbia pulcherrima Willd. ex Klotzsch			
1.1.2 Common name	Po	Poinsettia			
2. Applicant					
Name					
Address					
Telephone No.					
Fax No.					
E-mail address					
Breeder (if different from applicant)					
3. Proposed denomination a	B. Proposed denomination and breeder's reference				
Proposed denomination (if available)					
Breeder's reference					

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:				
[#] 4. Information on the breeding scheme and propagation of the variety						
4.1 Breeding scheme	4.1 Breeding scheme					
Variety resulting from:	Variety resulting from:					
4.1.1 Crossing						
(a) controlled cross		[]				
(please state par (b) partially known	cross	[]				
(c) unknown cross	own parent variety(ies)	[]				
4.1.2 Mutation (please state parent)	variety)	[]				
4.1.3 Discovery and developlease state where a	lopment and when discovered ar	[] nd how developed)				
4.1.4 Other (please provide deta	ils)	[]				
4.2 Method of propagating the	e variety					
4.2.1 Vegetative propaga	ation					
(a) cuttings(b) in vitro proposition(c) other (state response)		[] [] []				
4.2.2 Seed		[]				
4.2.3 Other (please provide det	tails)	[]				

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

TECI	HNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
5. corre	Characteristics of the variety sponding characteristic in Test			
	Characteristics		Example Varieties	Note
5.1 (5)	Stem: color			
	greenish			1[]
	reddish			2[]
5.2 (11)	Leaf blade: number of colors			
	one			1[]
	two			2[]
	more than two			3[]
5.3 (35)	Bracts: number of colors			
	one			1[]
	two			2[]
	more than two			3[]
5.4 (36)	Varieties with more than one color	: Bract: color pattern of	f <u>upper</u> side	
	marbled			1[]
	spotted			2[]
5.5i (37)	Varieties with one color only: Bra	ct: color of <u>upper</u> side		

RHS Colour Chart (indicate reference number)

TECH	HNICAL QUESTI	ONNAIRE	Page {x}	of {y}	Reference N	Jumber:
5.5ii Varieties with one color only: Bract: color of upper side (37)						
	white					
	yellow					
	orange-red					
	red					
	purple					
	pink					
	other					
6.	Similar varieties a	and difference	es from the	ese 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.						
varie	nomination(s) of ety(ies) similar to candidate variety	Characteris which your variety diff the similar v	candidate fers from	of the char for the	e expression acteristic(s) similar ty(ies)	Describe the expression of the characteristic(s) for your candidate variety
(Exam	ple)	Bract: nu colors of up	mber of		ne	two
C	Comments:					

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:			
9. Information on plant material to be examined or submitted for examination.					
9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.					
9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:					
(a) Microorganisms (e.g. vir	us, bacteria, phytoplas	ma) Yes []	No []		
(b) Chemical treatment (e.g.	Chemical treatment (e.g. growth retardant, pesticide)				
(c) Tissue culture	Tissue culture				
(d) Other factors	Other factors				
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]