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TECHNICALWORKINGPA RTY FOR ORNAMENTALPLANTSAN DFORESTTREES

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WORKINGPAPERONDRAFTT ESTGUIDELINESFORP OINSETTIA (EUPHORBIAPULCHERRIM A WILLD.EXKLOTZSCH)

PreparedbyexpertsfromDenmark

The attached document TG/POINSE(proj.1) already incorporates the standard wording of document TGP/7.2, which was adopted by the Technical Committee at its thirty -eighth session in April 2002, and includes some additional standard wording from document TGP/7.1 Draft 1, also agreed at that session.

[DocumentTG/POINSE(proj.1)follows]



INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS

GENEVA

POINSETTIA^{*}

Euphorbiapulcherrima Willd.ExKlotzsch

GUIDELINES

FORTHECONDUCTOFTESTS

FORDISTINCTNESS, UNIFORMITYANDSTABILITY

AlternativeNames: *

Latin	English	French	German	Spanish
<i>Euphorbiapulcherrima</i> Willd.ExKlotzsch.	Poinsettia			

ASSOCIATEDDOCUMENTS

These guidelines should be readin conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (hereinafter referred to as 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 latestinformation.]

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1. SubjectoftheseGuidelines

1.1 These Test Guidelines apply to all varieties of Klotzsch.ofthefamilyEuphorbiaceae.

Euphorbia pulcherrima Willd. Ex

2. MaterialRequired

2.1 The comp etent 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 thatallcustomsformalities and phytosanitary requirements are complied with.

2.2 Thematerialistobesupplied in the form of rooted cuttings.

2.3 Theminimumquantityofplantmaterial,tobesuppliedbytheapplicant,shouldbe:

10rootedcuttings .

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affectedbyanyimportantpestordisease.

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 requestsuchtreatment.Ifithasbeentreated,fulldetailsofthetreatmentmustbegiven.

3. MethodofExamination

3.1 **Duration**ofTests

Theminimumdurationoftestsshouldnormallybeasinglegro wingcycle.

3.2 *TestingPlace*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the varietymaybetestedatanadditionalplace.

3.3 *ConditionsforConductingtheExamination*

The tests should be carried out under conditions ensuring satisfactory growth for the 3.3.1 expression of the relevant characteristics of the variety and for the conduct of the examination.

Thetestsshouldbeconductedinaglasshousewiththefollowingconditions: 3.3.2

Temperature:	19°C
Shortdaytreatment:	14hoursperday

3.4 TestDesign

3.4.1 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting w ithout prejudice to the observations which must be made up to the end of the growing cycle.

3.4.2 Eachtestshouldbedesignedtoresultinatotalofatleast10 plants.

3.5 Number of Plants/Parts of Plantstobe Examined

Unless otherwise indicated, all observations determined by measuring or counting shouldbemadeon10 plantsorpartstakenfromeachof10 plants.

3.6 AdditionalTests

 $\label{eq:constraint} Additional tests, for examining relevant characteristics, may be established.$

4. <u>AssessmentofDistinctness,Unifo</u> rmityandStability

4.1 Distinctness

4.1.1 GeneralRecommendations

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 ConsistentDifferences

The minimum duration of tests recommended in section 3.1 reflects, in general, the needtoensurethatanydifferences in a characteristic are sufficiently consistent.

4.1.3 ClearDifferences

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 qual itative, 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 ItisofparticularimportanceforusersoftheseTestGuidelinestoconsulttheGeneral Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these TestGuidelines:

4.2.2 Theacceptablenumberof off -typestoleratedinasamplesizeof 10 plants is 1 on the basis of apopulation standard of 1% and an acceptance probability of 95%.

4.3 Stability

4.3.1 Inpractice, 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 appr opriate, 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. <u>GroupingofVari etiesandOrganizationoftheGrowingTrial</u>

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 theassessment of distinctnessi saided by the use of grouping characteristics.

5.2 Groupingcharacteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or incombination with other such character is tics: (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 trials othat similar varieties are grouped together.

5.3 Thefollowinghavebeenagree dasuseful grouping characteristics:

- (a) Plant:branching(characteristic1)
- (b) Leafblade:numberofcolors(characteristic11)
- (c) <u>Varieties with one -colored leaves only</u>: Leaf blade: green color (characterist 12)
- (d) Bract:numberofcolorsof upperside(characteristic34)
- (e) Bract:patternofcolorsofupperside(characteristic35)
- (f) Bract:colorofupperside

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

- 6. <u>IntroductiontotheTableofCharacteristics</u>
- 6.1 Categories of Characteristics

6.1.1 StandardTestGuidelinesCharacteristics

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

6.1.2 AsteriskedCharacteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmoni zation 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 environmentalconditionsrenderthisina ppropriate.

6.2 StatesofExpressionandCorrespondingNotes

States of expression are given for each characteristic to define the characteristic and to harmonized escriptions. 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 TypesofExpression

 $\label{eq:Anexplanation} An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.$

6.4 ExampleVarieties

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

6.5 Legend

- (*) Asteriskedcharacteristic –seeSection6.1.2
- (QL) Qualitativecharacteristic -seeSection6.3
- (QN) Quantitativecharacteristic -seeSection6.3
- (PQ) Pseudo-Qualitativecharacteristic -seeSection6.3
- (+) SeeExplanationsontheTableofCharacteristicsinChapter8.

7. TableofCharacteristics/Tableaudescaractères/Merkmalstabelle/Tabladecaracteres

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
1. (*)	Plant:branching					
	absent					1
	present					9
2. (*)	Plant:numberof branches					
	few					3
	medium					5
	many					7
3. (*)	Plant:height					
	short					3
	medium					5
	tall					7
4.	Plant:width					
	narrow					3
	medium					5
	broad					7
5. (*)	Stem:color					
	greenish					1
	reddish					2
6. (*)	Stem:intensityof color					
	weak					3
	medium					5
	strong					7

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
7. (*)	Leafblade:length					
	veryshort					1
	short					3
	medium					5
	long					7
	verylong					9
8. (*)	Leafblade:width					
	narrow					3
	medium					5
	broad					7
9. (*)	Leafblade:shape					
	elliptic					1
	obovate					3
	ovate					4
	deltoid					5
10. (*)	Leafblade: shapeof base					
	truncate					1
	rounded					2
	wedge-shaped					3
11. (*)	Leafblade:number ofcolors					
	one					1
	two					2
	morethantwo					3

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
12. (*)	<u>Varietieswithone</u> - <u>coloredleavesonly</u> : Leafblade:green color					
	verylight					1
	light					3
	medium					5
	dark					7
	verydark					9
13. (*)	<u>Varietieswithtwo -</u> ormulticolored <u>leavesonly</u> :Leaf blade:maincolor					
	lightyellowishgreen					1
	lightgreen					2
	mediumgreen					3
	greyishgreen					4
	darkgreen					5
	verydarkgreen					6
14. (*)	<u>Varietieswithbi</u> -or <u>multicoloredleaves</u> <u>only</u> :Leafblade: secondarycolor	<u>-</u>				
	white					1
	yellowishwhite					2
	lightyellowishgreen					3
	lightgreen					4
	mediumgreen					5
	greyishgreen					6
	darkgreen					7
	verydarkgreen					8

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
15. (*)	Varietieswith bi -or multicoloredleaves only:Leafblade: distributionof secondarycolor					
	nearmainvein					1
	nearmargin					2
16.	<u>Varietieswith</u> <u>multicoloredleaves</u> <u>only</u> :Leafblade: tertiarycolor					
	white					1
	yellowishwhite					2
	lightyellowishgreen					3
	lightgreen					4
	mediumgreen					5
	greyishgreen					6
	darkgreen					7
	verydarkgreen					8
17. (*)	Varietieswithbi -or multicoloredleaves only:Leafblade: areaofmaincolor comparedtoareaof othercolor(s)					
	verysmall					1
	small					3
	medium					5
	large					7
	verylarge					9

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
18. (*)	Leafblade:colorof mainveinonupper side					
	whitish					1
	yellowish					2
	greenish					3
	reddish					4
19. (*)	Leafblade:colorof mainveinonlower side					
	whitish					1
	yellowish					2
	greenish					3
	reddish					4
20. (*)	Leafblade:number oflobes					
	absentorvery few					1
	few					3
	medium					5
	many					7
	verymany					9
21. (*)	Leafblade: maximumdepthof sinus					
	shallow					3
	medium					5
	deep					7

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
22. (*)	Petiole:length					
	short					3
	medium					5
	long					7
23. (*)	Petiole:colo rof upperside					
	greenish					1
	pinkish					2
	reddish					3
24. (*)	Petiole:intensityof colorofupperside					
	weak					3
	medium					5
	strong					7
25. (*)	Petiole:colorof lowerside					
	yellowish					1
	greenish					2
	reddish					3
26. (*)	Petiole:intensityof coloroflowerside					
	weak					3
	medium					5
	strong					7

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	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
27. (*)	Transitionalleaves: numberofpartly bractcoloredleaf blades					
	absentorveryfew					1
	few					3
	medium					5
_	many					7
28. (*)	Transitionalleaves: numberoffully bractcoloredleaf blades					
	few					3
	medium					5
	many					7
29. (*)	Bracts:number					
	few					3
	medium					5
	many					7
30.	Transitionalleaves: distancebetweenthe highestandlowest transitionalleaf blade					
	short				Oslo	3
	medium				AnnetteHegg	5
_	long				Cardinal	7
31. (*)	Bract:lengthof largestbract(petiole included)					
	short					3
	medium					5
	long					7

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
32. (*)	Bract:widthof largestbract					
	narrow					3
	medium					5
	broad					7
33. (*)	Largestbract:shape					
	obovate					1
	lanceolate					2
	elliptic					3
	ovate					4
34. (*)	Bract:numberof colorsofupperside					
	one					1
	two					2
	morethantwo					3
35.	Bract:patternof colorsof upperside					
	onecolored					1
	marbled					2
	spotted					3
36. (*)	<u>One-colored</u> <u>varietiesonly</u> : Bract:colorof upperside					
	RHSColourChart (indicatereference number)					

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note Nota
37. (*)	<u>Marbledcolored</u> <u>varietiesonly</u> : Bract:maincol orof middlezoneof upperside					
	RHSColourChart (indicatereference number)					
38. (*)	<u>Marbledcolored</u> <u>varietiesonly</u> : Bract:secondary colorofmiddlezone ofupperside					
	RHSColourChart (indicatereference number)					
39. (*)	<u>Marbledcolored</u> <u>varietiesonly</u> : Bract:maincolorof marginalzoneof upperside					
	RHSColourChart (indicatereference number)					
40. (*)	<u>Spottedvarieties</u> <u>only</u> :Bract:colorof maincolorofupper side					
	RHSColour Chart (indicatereference number)					

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
41. (*)	<u>Spottedvarieties</u> <u>only</u> :Bract:colorof spotsofupperside					
	RHSColourChart (indicatereference number)					
42. (*)	One-colored varietiesonly : Bract:coloroflower sideofb racts RHSColourChart					
	(indicatereference number)					
43. (*)	<u>Marbledcolored</u> <u>varietiesonly</u> : Bract:maincolorof middlezoneoflower side					
	RHSColourChart (indicatereference number)					
44. (*)	<u>Marbledcolored</u> <u>varietiesonly</u> : Bract:secondary colorofmiddlezone oflowerside					
	RHSColourChart (indicatereference number)					

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
45. (*)	<u>Marbledcolored</u> <u>varietiesonly</u> : Bract:maincolorof marginalzoneof lowerside					
	RHSColourChart (indicatereference number)					
46. (*)	<u>Spottedvarieties</u> <u>only</u> :Bract:colorof maincoloroflower side					
	RHSColourChart (indicatereference number)					
47. (*)	<u>Spottedvarieties</u> <u>only</u> :Bract:colorof spotsoflowersideof bracts					
	RHSColourChart (indicatereference number)					
48.	Bract:folding					
	absent					1
	present					9
49.	Bract:curving					
	absent					1
	present					9
50.	Bract:twisting					
	absent					1
	present					9

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
51.	Bract:inte nsityof rugositybetween veins					
	absentorveryweak					1
	weak					3
	medium					5
	strong					7
	verystrong					9
52. (*)	Cyme:width					
	narrow					3
	medium					5
	broad					7
53. (*)	Cyathium:sizeof glands					
	small					3
	medium					5
	large					7
54. (*)	Cyathium:colorof glands					
	greenishyellow					1
	yellow					2
	orange					3
	red					4

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
55.	Cyathium:red colorationofmargin ofglands					
	absentorverylight					1
	light					3
	medium					5
	dark					7
	verydark					9
56.	Timeofopeningof firstthreecyathia					
	early					3
	medium					5
	late					7

8. <u>ExplanationsontheTableofCharacteristics</u>

9. <u>Literature</u>

10. <u>TechnicalQuestionnaire</u>

TEC	HNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceN umber:			
			Applicationdate: (nottobefilledinbytheapplicant)			
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights						
1.	SubjectoftheTechnicalQuesti	onnaire				
1.1	LatinName	uphorbia pulcherrimaW	Villd.ExKlotzsch			
1.2	CommonName	OINSETTIA				
2.	Applicant					
	Name					
	Address					
	TelephoneNo.					
	FaxNo.					
	E-mailaddress					
	Breeder(ifdifferentfromapplie	cant)				
3.	Proposeddenomina tionandbr	eeder'sreference				
	Proposeddenomination (ifavailable)					
	Breeder'sreference					

TECHN	CALQUESTIONNAIRE	Page{x}of{y}	ReferenceN umber:		
4. Info 4.1	4. Informationonthebreedingschemeandpropagationofthevariety4.1 BreedingScheme				
	 4.1.1 Varietyresultingfrom (a) controlledcross (pleasestatepa (b) partiallyunknow (c) totallyunknow 4.1.2 Mutation (pleasestateparentva 4.1.3 Discovery (pleasestatewhere,w 4.1.4 Other (pleaseprovidedetail 	n: rentvarieties) owncross ownparentvariety(ies)) vncross uriety) rhenandho wdevelop	[] [] [] [] ed) []		
4.2	MethodofPropagatingtheV 4.2.1 Cuttings 4.2.2 <i>Invitro</i> 4.2.3 Other(pleasespecify	Variety)			

TECH	NICALQUESTIONNAIRE	Page{x}of{y}	ReferenceN umber:				
5. corres	5. Characteristics of the variety to be indicated (the number in br ackets refers to the correspondingcharacteristicinTestGuidelines;pleasemarkthenotewhichbestcorresponds).						
	Characteristics		ExampleVarieties	Note			
5.1 (1)	Plant:branching						
	absent			1[]			
	present			9[]			
5.2 (11)	Leafblade:numberofco lors						
	one			1[]			
	two			2[]			
	morethantwo			3[]			
5.3 (12)	<u>Varietieswithone</u> -coloredleavese greencolor	only_:Leafblade:					
	verylight			1[]			
	light			3[]			
	medium			5[]			
	dark			7[]			
	verydark			9[]			
5.4 (34)	Bract:numberofcolor sofuppers	ide					
	one			1[]			
	two			2[]			
	morethantwo			3[]			
5.5 (35)	Bract:patternofcolorsofupperside	e					
	onecolored			1[]			
	marbled			2[]			
	spotted			3[]			

TECH	NICALQUESTIONNAIRE	ReferenceN umber:		
	Characteristics		ExampleVarieties	Note
5.6i. (36)	<u>One-coloredvarietieson ly</u> :Bract	colorofupperside		
	RHSColourChart (indicatereferencenumber)			
5.6ii. (36)	<u>One-coloredvarietiesonly</u> :Bract	colorofupperside:		
	white			[]
	yellow			[]
	pink			[]
	red			[]
5.7i (37)	<u>Marbledcoloredva</u> rietiesonly:B middlezoneofupperside	Bract:maincolorof		
	RHSColourChart (indicatereferencenumber)			
5.7ii (37)	<u>Marbledcoloredvarietiesonly</u> :B middlezoneofupperside	Bract:maincolorof		
	white			[]
	yellow			[]
	pink			[]
	red			[]
5.8i (38)	<u>Marbledcoloredvarietiesonly</u> :B middlezoneofupperside	Bract:secondarycolorof		
	RHSColourChart (indicatereferencenumber)			
5.8ii (38)	<u>Marbledcoloredvarietiesonly</u> :B middlezoneofupperside	Bract:secondarycolorof		
	white			[]
	yellow			[]
	pink			[]
	red			[]

TECH	NICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:	
	Characteristics		ExampleVariation	Note
	Characteristics		Example varieties	Note
5.9i (39)	<u>Marbledcoloredvarietiesonly</u> :E marginalzoneofupperside	Bract:maincolorof		
	RHSColourChart (indicatereferencenumber)			
5.9ii (39)	<u>Marbledcoloredvarietiesonly</u> :E marginalzoneofupperside	Bract:maincolorof		
	white			[]
	yellow			[]
	pink			[]
	red			[]
5.10i (40)	<u>Spottedvarietiesonly</u> :Bract:colo upperside	profmaincolorof		
	RHSColourChart (indicatereferencenumber)			
5.10ii (40)	<u>Spottedvarietiesonly</u> :Bract:colo upperside	profmaincolorof		
	white			[]
	yellow			[]
	pink			[]
	red			[]
5.11i (41)	Spottedvarietiesonly :Bract:colo	orofspotsofupperside		
	RHSColourChart (indicatereferencenumber)			
5.11ii (41)	Spottedvarietiesonly :Bract:colo	profspotsofupperside		
	white			[]
	yellow			[]
	pink			[]
	red			[]

TECHNICALQUESTIONNAIRE Page{x}			of{y}	ReferenceN	Number:
6. Similarvarietiesanddifferencesfromthesevarieties					
Denomination(s)of variety(ies)similarto yourcandidatevariety thereinitian		Describeth ofthechan forth	neexpression racteristic(s) esimilar	Describetheexpression ofthecharacteristic(s) foryourcandidate	
(Example)	Plant:h	eight	<i>e.g.</i> <i>e.g.</i>	note3 short	note7 tall
			<i>e.g.</i>	90cm	130cm

7.	Additionalinformationwhichmayhelpintheexaminationofthevariety					
7.1	In addition to the information provided in sections 5 and 6, are there any addit ional characteristicswhichmayhelptodistinguishthevariety?					
	Yes	[]	No []			
	(Ifyes,p	leaseprovidedetails)				
7.2	Special	conditionsfortheexa	ninationofthevariety			
	7.2.1 Are there any special conditions for growing the variety or conducting the examination?					
		Yes []	No []			
	7.2.2	Ifyes,pleasegivede	ails:			
7.3	Otherin	formation				
8.	Author	izationforrelease				
	(a) D concern	oes the variety rec ingtheprotectionoft	uire prior authorization for re eenviron ment,humanandanin	lease under legislation nalhealth?		
	Y	es []	No []			
	(b) H	lassuchauthorization	peenobtained?			
	Y	es []	No []			
	Iftheans	swerto(b)isyes,pleas	eattachacopyoftheauthorization.			
9. form	I hereby declare that, to the best of my knowledge, the information provided in this ormiscorrect:					
	Applica	int'sname				
	Signatu	re]	Date		

[Endofdocument]