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**ORIGINAL:** English

**DATE:** November2,2002

### INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS GENEVA

# TECHNICALWORKINGPA RTY FOR ORNAMENTALPLANTSAN DFORESTTREES

## Thirty-FifthSession Quito,November18to22,2002

WORKINGPAPERONDRAFTTES TGUIDELINESFORTEA TREE

(Leptospermum J.R. etG.Forst.)

Document prepared by experts from Australia

The attached document TG/LEPTOS (proj.1) already incorporates the standard wording of document TGP/7.2, which was adopted by the Tec hnical 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/LEPTOS(proj.1)follows]



TG/LEPTOS(proj.1)
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### INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS GENEVA

#### TEATREE '

(LeptospermumJ.R. etG. Forst.)\*

#### **GUIDELINES**

#### **FORTHECONDUCTOFTESTS**

#### FORDISTINCTNESS, UNIF ORMITYANDSTABILITY

#### AlternativeNames: \*

	Latin	English	French	German	Spanish
	LeptospermumJ.R. et G. Forst.	TeaTree	Leptosperme	Südseemyrte	Leptospermum
L					

#### **ASSOCIATEDDOCUMENTS**

These guidelines shou Idbereadin 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" (herein after referred to as the "General Introduction") and its associated "TGP" documents.

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<sup>\*</sup> 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

TheseTestGuidelinesapplytoallvarietiesof *Leptospermum* J.R.Forst.andG.Forst. ofthefamilyMyrtaceae.

#### 2. MaterialRequired

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.

ure

- 2.2 Thematerialistobesupplied in the form of rooted cuttings.
- 2.3 Theminimum quantity of plantmaterial, to be supplied by the applicant, should be:

Vegetativelyp ropagatedvarieties: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 request such treatment. If it has been treated, full details of the treatment must be given. If the material has been propagated by "invitro" methods this must be declared.

#### 3. <u>MethodofExamination</u>

#### 3.1 Duration of Tests

Theminimum duration of tests should normally be a single growing cycle.

#### 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 varietymaybetestedatanadditional place.

- 3.3 ConditionsforConductingtheExamination
- 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, observations should be made on plants which are at least 2 years old.
- 3.3.2 Characteristicscontainingthefollowing notes in the second column of the Tableof Characteristics should be examined as indicated below:

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- All observations on the young leaf should be made on the distal part of the shoot on fully expanded leaves. The color should be observed on the upper side.
- All observation s on the mature leaf should be made on leaves of the middle partoftheshoots. The colors hould be observed on the upper side.
- All observations on the flower should be made "at first opening," unless otherwisestated. "Atfirst opening" is defined as the same day that the petals reflex from the curled position in the bud.
- 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 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 without prejudice to the end of the growing cycle.
- 3.4.2 Eachtestshouldbedesignedtoresultinatotalof, at least 10 plants.
- 3.5 Number of Plants/Parts of Plants to be Examined

Unless otherwise indicated, all observations determine d by measuring or counting shouldbemadeon10plantsorpartstakenfromeachof10plants.

3.6 AdditionalTests

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

- 4. <u>AssessmentofDistinctness,UniformityandStability</u>
- 4.1 Distinctness
  - 4.1.1 GeneralRecommendations

Itisofparticularimportanceforusersofthese Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or mphasis in these Test Guidelines.

#### 4.1.2 ConsistentDifferences

The minimum duration of tests recommended in section 3.1 reflects, in general, the needtoensurethatanydifferencesinacharacteristicaresufficientlyconsistent.

#### 4.1.3 ClearDifference s

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 pseu do-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 Itisofparticulari mportanceforusersoftheseTestGuidelinestoconsulttheGeneral Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these TestGuidelines:
- $4.2.2 \quad The acceptable number \ of of f \ -type stolerated in a sample size of 10 plants is 1 on the basis of a population standard of 1\% and an acceptance probability of 95\%.$
- 4.3 Stability
- 4.3.1 Inpractice, it is not usual toper form tests of stability that produce results ascertain 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. GroupingofVarietiesandOrganizationofthe GrowingTrial
- 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 distinctness is aided by the use of grouping characteristics.
- 5.2 Groupingcharacteristicsarethoseinwhichthedocumentedstatesofexpression, even whereproducedatdifferentlocations, canbeused, eitherindividually orincombination with other such characteristics: (a) to select varieti es 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 Thefollowinghavebeenagreedasuseful grouping character istics:
  - (a) Plant:growthhabit(char.1)
  - (b) Leafblade:variegation(char.16)

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(c) Leafblade:maincolorofupperside(excludingpubescence)(char.17)

Gr.1(green):yellowgreen;lightgreen;mediumgreen;darkgreen

Gr.2(bluegreen):gr eygreen

Gr.3(red):red;redbrown;redpurple;greypurple

(d) Flower:type(char.27)

(c) Petal:maincoloratfirstopening(char.38)withthefollowinggroups:

Gr.1:greenyellow

Gr.2:white

Gr.3:redpink

Gr.4:redpurple

Gr.5:red

Gr.6:purpleviolet

Gr.7:violet

- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.
- 6. IntroductiontotheTableofCharacteristics
- 6.1 Categories of Characterist ics
  - 6.1.1 StandardTestGuidelinesCharacteristics

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 AsteriskedCharacteristics

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

Statesofexpressionaregiven foreachcharacteristictodefinethecharacteristicandto harmonizedescriptions. 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.

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#### 6.3 TypesofE xpression

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 sta tes of expression of each characteristic.

- 6.5 Legend
- (\*) Asteriskedcharacteristic –seeSection6.1.2
- (+) SeeExplanationsontheTableofCharacteristicsinChapter8.
- (QL) Qualitative characteristic -see Section 6.3
- (QN) Quantitative characteristic see Section 6.3
- (PQ) Pseudo-Qualitativecharacteristic -seeSection6.3
- a to C MethodofExamination -seesection 3.3.2

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#### 7. <u>TableofCharacteristics/Tableaudescaractères/Merkmalstabelle/Tabladecaracteres</u>

	$\mathrm{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
1. (+)		Plant:growthhabit					
		upright				RubyGlow	1
		bushy				Nanum	2
		spreading				PacificBeauty	3
		prostrate				BackwaterBeauty	4
2.		Plant:height					
		veryshor t				JulieAnn	1
		short				PinkCascade	3
		medium				FairyRose	5
		tall				CopperSheen	7
		verytall				Leptospermumlaevigatum	9
3. (+)		Plant:attitudeof branches					
		erect					1
		semi-erect					2
		horizontal					3
<b>3a.</b> (+)		Plant:c urvatureof branches					
		upwards					1
		straight					2
		downwards					3
4.		Plant:width					
		narrow					3
		medium				JulieAnn	5
		broad				AlbumFlore -pleno	7

\* MoE=MethodofExamination(seesection3.3.2).

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$\mathrm{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
5.	Plant:density					
	open				RubyGlow	3
	medium					5
	dense				RoseumFlore -pleno	7
6.	Youngshoot:main color					
(+)	yellowgreen					1
	lightgreen					2
	mediumgreen					3
	reddishgreen					4
	red					5
	purple					6
7.	Youngshoot: hairiness					
	absent					1
	present					9
15. (*)	Young leaf:main color					
a	yellow				PacificBeauty	1
	yellowgreen				Aphrodite	2
	lightgreen					3
	mediumgreen					4
	darkgreen					5
	greygreen					6
	red					8
	redbrown					9
	redpurple				CopperGlow	10
	greypurple				Rudolph	11
	greyorange					12

#### TG/LEPTOS(proj.1) –(TWF/35/11) TeaTree,2002 -11-02 - 12 -

	$\mathbf{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>9.</b> (+)		Leafblade:attitude tostem					
	b	adpressed					1
		oblique					2
		perpendicular					3
10. (*)		Leafblade:length					
	b	veryshort					1
		short				Rhiannon	3
		medium				Aphrodite	5
		long					7
		verylong					9
11. (*)		Leafblade:width					
	b	narrow				BY11	3
		medium				Rhiannon	5
		broad					7
12.		Leafblade:shape					
	b	linear					1
		ovate					2
		oblong					3
		elliptic					4
		orbicular					5
		obovate					6

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	$\mathrm{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
13. (+)		Leafblade:profile incrosssection					
	b	infolded					1
		incurved					2
		flat					3
		recurved					4
14.		Leafblade:shapeof apex					
	b	acute				Aphrodite,Rhiannon	1
		obtuse				Rudolph	2
		rounded					3
16.		Leafblade:					
(*)	b	variegation absent					1
		present				Raelene	9
17. (+)		Leafblade:main colorofupperside (excluding pubescence)					
	b	yellowgreen				LemonFrost	1
		lightgreen					2
		mediumgreen					3
		darkgreen				PinkCascade	4
		greygre en					5
		red					6
		redbrown					7
		redpurple					8
		greypurple					9

#### TG/LEPTOS(proj.1) –(TWF/35/11) TeaTree,2002 -11-02 - 14 -

	$\mathrm{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
18.		Varietieswith variegatedleaves only:Leafblade: secondarycolorof upperside					
	b	yellowishwhite					1
		lightyellowishgreen					2
		lightgreen					3
		mediumgreen					4
19.		Leafblade: glossinessofupper side					
	b	absentorveryweak					1
		weak					3
		medium					5
		strong					7
		verystrong					9
20.		Leaf:hairinesson lowerside					
	b	absentorslightly hairy					1
		moderatelyhairy					2
		stronglyhairy					3
<del>22.</del>		Inflorescence: arrangementof flowers					
		solitary					1
		<del>inclusters</del>					2
<del>23.</del>		FlowerBud:ratio- length/width					_
		<del>broaderthanlong</del>					1
		aslongasbroad –					2
		longerthanbroad					3

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$\mathbf{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<del>24.</del>	FlowerBud:lateral- view					
	pointed					1
	rounded					2
26.	FlowerBud: hairiness					
	absentorslightly hairy					1
	moderatleyhairy					2
	stronglyhairy					3
25.	FlowerBud: predominantcolor					
	white					1
	pink					2
	red					3
	purple					4
27.	Flower:type					
c	single				Keatleyi	1
	semidouble					2
	double				AlbumFlore -pleno, FairyRose	3
28.	Flower:number of functional stamens (semi-double and double varieties only)					
c	noneorveryfew					1
	few					2
	many					3

#### TG/LEPTOS(proj.1) –(TWF/35/11) TeaTree,2002 -11-02 - 16 -

	$\mathbf{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
28.		Flower:diameter					
	c	verysmall					1
		small				Leptospermumneglectum	3
		medium					5
		large					7
		verylarge				LavenderQueen	9
33.		Flower: arrangementof petals					
	c	free					1
		touching					2
		overlapping					3
29.		Sepal:lengthin relationtolengthof petal					
	c	lessthanonethird					1
		onethirdtotwothirds					2
		morethantwothirds					3
30.		Sepal:shapeofapex					
	c	pointed					1
		rounded					2
31.		Sepal:predominant color					
	c	white					1
		yellowgreen				Aphrodite	2
		green				BackwaterBeauty	3
		pink				Lambethii	4
		red				CopperSheen	5

#### TG/LEPTOS(proj.1) –(TWF/35/11) TeaTree,2002 -11-02 - 17 -

	$\mathbf{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
32.		Sepal:hairiness					
	c	absentorveryslightly hairy					1
		slightlyhairy					2
		stronglyhairy					3
34.		Petal:ratiolength/ width					
(+)	c	broaderthanlong					1
		aslongasbroad					2
		longerthanbroad					3
35.		Petal:numberof colorsvisibleon upperside					
	c	one					1
		two				Keatleyi	2
		three				Sunraysia	3
36.		Varietieswith multicoloredpetal only:Petal:color pattern					
	c	marginal					1
		striated					2
		flushed					3
37.		Petal:colorchange afteropening					
		absent					1
		present				Nanum	9
38.		Petal:maincolorat firstopening					
	c	RHSColourChart (indicatereference number)					

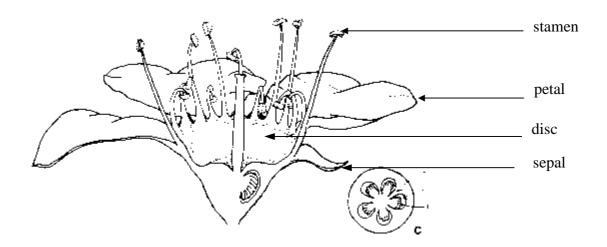
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	$\mathrm{MoE}^*$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
39.		Varietieswith multicoloredpetal only:Petal: secondarycolorat firstopening					
	c	RHSColourChart (indicatereference number)					
42.		Petal:undulationof margin					
	c	absentorveryweak					1
		weak					2
		strong					3
43.		Petal:reflexingof margin					
	c	absent					1
		present					9
40.		Petal:maincolorat 4weeksafterfirst opening					
		RHSColourChart (indicatereference number)					
41.		Varietiesw ith multicoloredpetal only:Petal: secondarycolorat4 weeksafterfirst opening					
		RHSColourChart (indicatereference number)					
44.		Disctoflower diameterratio					
	c	lessthanonethird					1
		onethirdtotwothirds					2
		moret hantwothirds					3

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<u>*</u> ГО	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
45.	Disc:color					
(	yellowgreen					1
	lightgreen					2
	mediumgreen					3
	darkgreen				CopperSheen	4
46.	Disc:maincolor4 weeksafterfirst opening					
	greenish					1
	brownish				Lambethii	2
47.	Stamen:length relativetolengthof petal					
(+)	uptohalfaslong					1
	morethanhalfas longbutlessthan equal					2
	equal					3
48.	Filaments:main color					
(	white				Rudolph, Aphrodite	1
	pink					2
	red					3
	brown					4
51.	Timeofbeginningof flowering	•				
	early					3
	medium					5
	late					7

#### 8. <u>ExplanationsontheTableofCharacteristics</u>



Ad1:Plant:	growthhabit	

Maingrowingdirection(s)ofplanttobeindicated foreachstate

Ad3:Plant:attitudeofbranches

Amend

<u>Ad4</u>:

Tobeproduced

<u>Ad6</u>:

observeduringactivegrowth

Ad9:Leaf:attitudetostem

Tiltthedrawingtoshowitisanglerelativetobranch

Ad13:Leaf:profileincrosssection

State2"Incurved"not"Incurled"

<u>Ad17</u>:

ExamineinSummer

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#### Ad23,24,25,26 :

To be examined immediately prior to reflexing of the sepals

<u>Ad24</u>:

Providet wo illustrations of EACH state to clarify characteristic

Ad30: Providetwoillustrationsof EACHstatetoclarifycharacteristic

<u>Ad34</u>:

excludingclaw/petalbase

<u>Ad47</u>:

anyvarietywiththestate"longer"isnotclassifiedasa comparedwithall *Kunzea*varieties

Leptospermum and should be

observationsonfertilestamens

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#### 9. <u>Literature</u>

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#### 10. <u>TechnicalQuestionnaire</u>

TECHNICALQUESTIONNAIR	RE Page{ x}of{y}		ReferenceNumber:		
Applicationdate: (nottobefilledinbytheappli					
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapp licationforplantbreeders'rights					
1. SubjectoftheTechnicalQue	1. SubjectoftheTechnicalQuestionnaire				
1.1Genus					
1.1.1 LatinName	Lep	otospermumJ.R. etG.F	Forst.		
1.1.2 CommonName	Tea	aTree			
1.2Subgenus/species(pleasecomp	lete	)			
1.2.1 LatinName					
1.2.2 CommonName					
2. Applicant					
Name					
Address					
TelephoneNo.					
FaxNo.					
E-mailaddress					
Breeder(ifdifferentfromapp	Breeder(ifdifferentfromapplicant)				

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TECHNICALQUESTIONNAIRE Page{ x}of{y} ReferenceNumber:				
3. Proposeddenominationandbro	eeder'sreference			
Proposeddenomination (ifavailable)				
Breeder'sreference				
Informationonthebreedingscho     4.1 BreedingScheme	emeandpropagationofthe	evariety		
4.1.1 Varietyresultingfrom:				
(a) controlledcros (pleasestatepa				
(b) partiallyunkno		[]		
(c) totallyunknow	rncross			
4.1.2 Mutation (pleasestateparenty	variety)			
4.1.3 Discovery (pleasestatewhere,	whenandhowdeveloped)	[]		
4.1.4 Other (pleaseprovidedeta	uils)	[ ]		
4.2 MethodofPropagatingthe	eVariety			
(a)cuttings []				

[]

[]

invitro propagation

(b)

(c)other(statemethod)

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5. Characteristics of the variety to be indicate d (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Corres	pondingenaracteristicin restoutuennes, pieasemarkinenot		
	Characteristics	ExampleVarieties	Note
5.1 (1)	Plant:growthhabit		
	upright	RubyGlow	1[]
	bushy	Nanum	2[]
	spreading	PacificBeauty	3[]
	prostrate	BackwaterBeauty	4[]
5.2 (16)	Leafblade:variegation		
	absent		1[]
	present	Raelene	9[]
5.3 (17)	Leafblade: maincolorofupperside (excluding pube scence)		
	yellowgreen	LemonFrost	1[]
	lightg reen		2[]
	mediumgreen		3[]
	darkgreen	PinkCascade	4[]
	greygreen		5[]
	red		6[]
	redbrown		7[]
	redpurple		8[]
	greypurple		9[]
5.4 (27)	Flower:type		
	single	Keatleyi	1[]
	semidouble		2[]
	double	AlbumFlore -pleno, FairyRose	3[]

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5.5i (38)	Petal:maincolora	tfirstopening				
	RHSColourChart(	indicatereferencenumber)				
5.5ii (38)	Petal:maincolora	tfirstopening				
	greenyellow			Copper	Sheen	1[]
	white			PacificI	Beauty	2[]
	redpink			Roseum	Flore -pleno	3[]
	redpurple			Aphrod	ite	4[]
	red			RedDar	nask	5[]
	purpleviolet					6[]
	violet					7[]
Denc	omination(s)of	Characteristic(s)in	Describe	theexpression	Describetheex	
	y(ies)similarto	whichyo urcandidate	ofthecha	racteristic(s)	ofthecharacte	eristic(s)
yourca	andidatevariety	varietydiffersfrom		ne similar	for <b>your</b> car	
(Ехатр	ole)	thesimilarvariety(ies)  Plant:height	e.g.	riety(ies) note3	variet note 7	•
Lixamp	<i>(10)</i>	1 tanti.neigni	e.g.	short	tall	
			e.g.	90cm	130cm	ļ

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7.	Additionalinformationwhichmayhelpintheexaminationofthevariety							
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristicswhichmayhelptodistinguishthevariety?							
	Yes [] No []							
	(Ifyes,pl	easepro	ovidedetails)					
7.2	Specialo	conditio	onsfortheexamin	ationoft	hevarie	ety		
	7.2.1		here any special nation?	conditio	ons for	growing	g the variety	or conducting the
		Yes	[]		No	[]		
	7.2.2	Ifyes,	pleasegivedetail	s:				
7.3	Otherinformation							
8.	Authorizationforrelease							
	(a) Doesthevarietyrequirepriorauthorizationforreleaseunderlegislationconcerning theprotectionoftheenvironment, humanandanimalhealth?							
	Yes [] No []							
	(b) Hassuchauthorizationbeenobtained?							
	Ye	es	[]	No	[]			
	Iftheans	werto(l	o)isyes,pleaseatt	achacop	yofthe	authoriz	zation.	
9. iscori	. Iherebydeclarethat,tothebestofmyknowledge,theinfor mationprovidedinthisform scorrect:							
	Applicant'sname							
	Signature Date							

[Endofdocument]