

UPOV

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

DRAFT**LOMANDRA**

UPOV Code: LOMAN

Lomandra Labill.

*

GUIDELINES**FOR THE CONDUCT OF TESTS****FOR DISTINCTNESS, UNIFORMITY AND STABILITY***prepared by an expert from Australia**to be considered by the*

*Technical Working Party for Ornamental Plants and Forest Trees
at its forty-fourth session, to be held in Fukuyama City, Hiroshima Prefecture, Japan,
from November 7 to 11, 2011*

Alternative Names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Lomandra</i> Labill.				

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Lomandra* Labill.

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 expressing relevant characteristics of the variety in the first growing cycle.

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

10 plants

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.

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. The color chart and version used should be specified in the variety description.

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 *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.

4.1.4 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 9 plants or parts taken from each of 9 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 “Examining Distinctness”, Section 4 “Observation of characteristics”):

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

“Visual” observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, “G” provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.”

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

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 of vegetatively propagated varieties, 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 further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial 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:

[reorder list to correspond with order in table 7 once final is agreed]

- (a) Plant: habit (Characteristic 2)
- (b) Leaf: glaucosity of adaxial surface (Characteristic 13)
- (c) Leaf: width (Characteristic 7)
- (d) Leaf: variegation (Characteristic 12)
- (e) Plant: sex expression (Characteristic 1)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 “Examining Distinctness”.

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*

6.2.1 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.

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 “Development of Test Guidelines”.

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
- MG, MS, VG, VS – see Chapter 4.1.5
- (a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. VG (*)	Plant: sex expression	[NZ/GB Proposal to delete]				
QL	male					1
	female					2
2. VG (*) (+)	Plant: habit					
PQ	(a) upright				Merlom Ruby	1
	semi upright				Katrinus Deluxe	2
	spreading				Stormy Seas	3
3. VG/ (*) MG	Plant: height of foliage					
QN	(a) short				Merlom Ruby	3
	medium				Stormy Seas	5
	tall				Katrinus Deluxe	7
4. VG (*)	Plant: density of foliage					
QN	(a) very sparse					1
	sparse				SIR5	3
	medium				Stormy Seas	5
	dense				Katrinus	7
	very dense				LM400	9
5. VG (+)	Leaf: attitude of upper third					
PQ	(b) erect					1
	semi-erect					2
	drooping					3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6. (*)	VG/ MG					
	Leaf blade: length					
QN	(b)					
	very short				Joey	1
	short				LMF500	3
	medium				Merlom Ruby Katrinus Deluxe	5
	long				Katrinus	7
	very long					9
7. (*)	VG/ MG					
	Leaf blade: width					
QN	(b)					
	very narrow				LM300	1
	narrow				Merlom Ruby	3
	medium				Stormy Seas	5
	broad				Cassica	7
	very broad					9
8. (*)(+)	Leaf: cross section					
QN	(b)					
	flat				Katrinus	1
	slightly concave				Merlom Ruby	2
	strongly concave					3
9.	Leaf: cross section	[NZ Proposal to replace Ch8]				
	flat					1
	weakly channelled (involute)				LM300	2
	strongly channelled				LM400	3
	cylindrical (terete)					4

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10. (*) (+)	VG Leaf: type of apex					
QL	(b) entire					1
	toothed					2
11. (*) (+)	Leaf: expression of middle tooth (toothed varieties only)					
QN	(b) very weak				LM300	1
	weak				Merlom Ruby	3
	medium				Katrinus	5
	strong				LM400	7
	very strong					9
12. (*)	Leaf: texture					
QN	(c) smooth				Stormy Seas	1
	medium				Merlom Ruby	2
	rough					3
13. (*)	VG Leaf: glaucosity of adaxial surface					
QN	(b) very weak				Lime Tuff	1
	weak				Katrinus	3
	medium				Merlom Ruby	5
	strong				SIR5	7
	very strong				Stormy Seas	9
14. (*)	VG Leaf: variegation					
QL	(c) absent					1
	present				LMV100 WN002	9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15. (*)	VG	Leaf: green color of adaxial side (excluding variegation)				
PQ	(c)	light			Little Pal?	1
		medium			LM400	2
		dark			Stormy Seas?	3
16.	(c)	Leaf: color of variegation				
PQ		RHS Colour Chart (indicate reference number)				
17.	VG	Leaf: glossiness of adaxial surface [GB Proposal]				
		absent or very weak				1
		medium			Katrinus Deluxe	2
		strong				3
18. (*)(+)	VG	Leaf: rigidity				
QN	(c)	weak			Katrinus	3
		medium			Merlom Ruby	5
		strong			SIR5	7
19. (*)(+)	VG	Basal sheath: shredding of margin				
QN		very weak			Lime Tuff	1
		weak			L1164	3
		medium			L1264	5
		strong			LMF500	7
		very strong				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
20. VG (*)	Basal sheath: intensity of brown color					
QN	light				Lime Tuff	1
	medium				Katrinus	2
	dark				Stormy Seas	3
21. VG	Inflorescence: height in relation to foliage					
		[NZ Proposal to keep previous states: below,level,above]				
QN (d)	lower				Merlom Ruby	1
	level				Lime Tuff	2
	higher				LHBYF	3
22. VG	Inflorescence: degree of branching					
		[GB proposal to consider angle of branching instead]				
QN (d)	absent or very weak				Merlom Ruby	1
	weak				LM300	3
	medium				Lime Tuff	5
	strong				LHCOM	7
	very strong					9
23. VG	Inflorescence: length of flowering part					
QN (d)	very short				LM300	1
	short				LHCOM	3
	medium				Lime Tuff	5
	long				LHBYF	7
	very long					9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
24. VG/ MG	Peduncle: length					
QN	(d)					
	very short				Merlom Ruby	1
	short				Seascape	3
	medium				LHCOM	5
	long				LM300 Lime Tuff	7
	very long					9
25. VG	Peduncle: color	[GB Proposal to use RHS]				
PQ	(d)					
	yellow green				Little Pal	
	greyed orange				LM300	
	brown				Seascape	
26. VG/ MG	Bract: length					
QN	(d)					
	very short				Seascape	1
	short				Silver Grace	3
	medium				Merlom Ruby	5
	long				Stormy Seas	7
	very long				Katrinus Deluxe	9
27. VG	Calyx: color					
PQ	(d)					
		white			Bunyip	1
		yellow			LM300	2
		yellow green			LHCOM	3
		greyed orange			Lime Tuff	4
		grey purple			Stormy Seas	5
28. VG	Perianth: color of inner side					
PQ	(d)					
	yellow	[Proposal to delete]				Seascape
	yellow orange				LHYBF	

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) The assessment of plant characteristics should be carried out later in the growing season, towards the end of active vegetative growth.
- (b) All observations on the leaf should be made on a fully expanded leaf
- (c) Observations should be made on the middle third of the leaf
- (d) All observations on the inflorescence and flower should be made on the main flower spike

8.2 *Explanations for individual characteristics*

Ad. 2: Plant: habit



1
upright



2
semi upright



3
spreading

Ad. 5: Leaf: attitude of upper third



1
erect



2
semi-erect



3
drooping

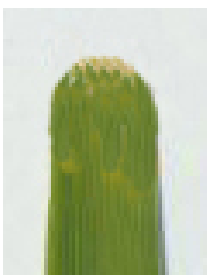
Ad. 6: Leaf blade: length

Assessed by folding middle third of leaf over index finger and observing the extent of splitting. Weak leaf rigidity is indicated by little or no splitting.

Ad. 8: Leaf: cross section

Should be observed on the lower third of leaf.

Ad. 10: Leaf: type of apex



1
entire



2
toothed

Ad. 11: Leaf: expression of middle (toothed varieties only)



1
very weak



3
weak



5
medium



7
strong

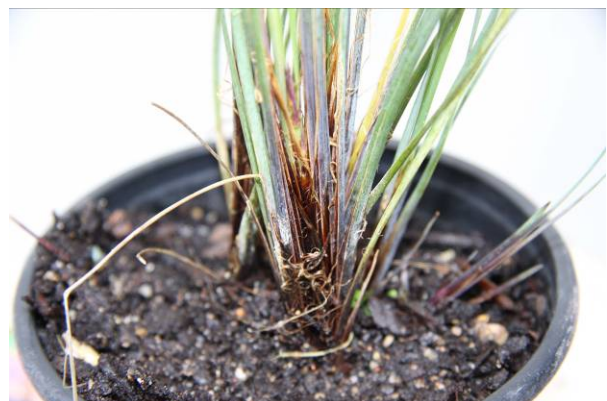
Ad. 19: Basal sheath: shredding of margin



1
very weak



3
weak



7
strong

[Consider and illustration or better photos instead]

Ad. 22: Inflorescence: degree of branching



1
absent or very weak



3
weak



5
medium

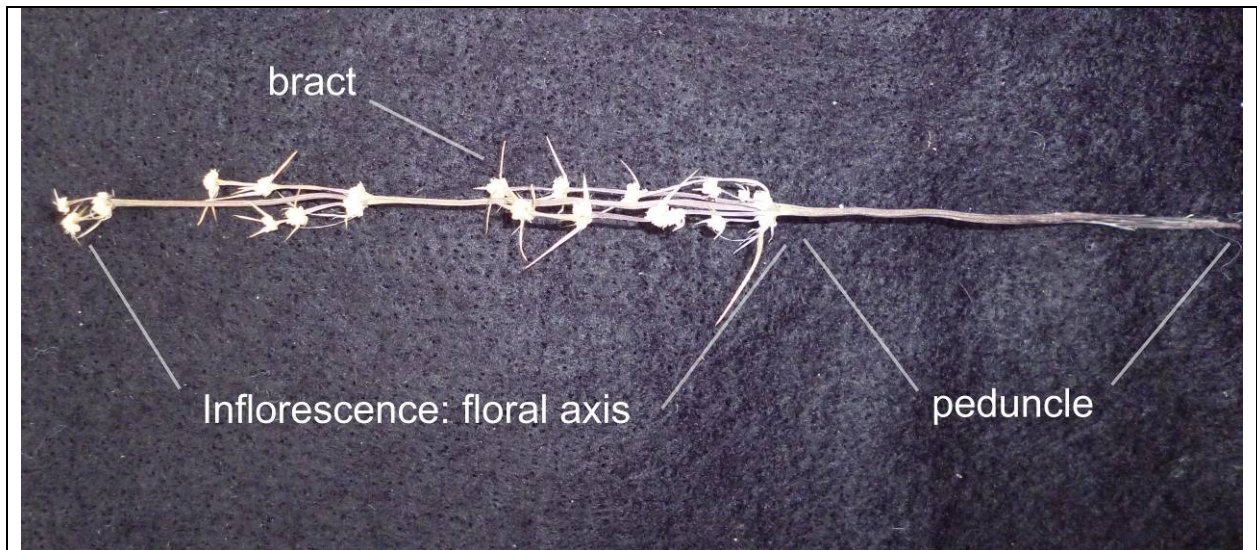


7
strong

Ad. 23: Inflorescence: length of flowering part

Ad. 24: Peduncle: length

Ad. 26: Bract: length



9. Literature

Lee, A.T., Macfarlane, T.D., 1986: Flora of Australia vol 46. Australian Government Publishing Service. Canberra, Australian Capital Territory, AU, pp. 100 to 141.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p style="text-align: center;">TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>		
<p>1. Subject of the Technical Questionnaire</p> <p>1.1.1 Botanical name <input type="text" value="Lomandra Labill."/></p> <p>1.1.2 Common name <input type="text" value="Lomandra"/></p> <p>1.2 Species (Please complete) <input type="text"/></p>		
<p>2. Applicant</p> <p>Name <input type="text"/></p> <p>Address <input type="text"/></p> <p>Telephone No. <input type="text"/></p> <p>Fax No. <input type="text"/></p> <p>E-mail address <input type="text"/></p> <p>Breeder (if different from applicant) <input type="text"/></p>		
<p>3. Proposed denomination and breeder's reference</p> <p>Proposed denomination (if available) <input type="text"/></p> <p>Breeder's reference <input type="text"/></p>		

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)

(.....) x (.....)
female parent male parent

(b) partially known cross []
(please state known parent variety(ies))

(.....) x (.....)
female parent male parent

(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)

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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4.2 Method of propagating the variety

4.2.1 Vegetative propagation

(a) cuttings	[]
(b) <i>in vitro</i> propagation	[]
(c) other (state method)	[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
5.1 Plant: sex expression (1)		
male		1 []
female		2 []
5.2 Plant: habit (2)		
upright	Merlom Ruby	1 []
semi upright	Katrinus Deluxe	2 []
spreading	Stormy Seas	3 []
5.3 Plant: height of foliage (3)		
very short		1 []
very short to short		2 []
short	Merlom Ruby	3 []
short to medium		4 []
medium	Stormy Seas	5 []
medium to tall		6 []
tall	Katrinus Deluxe	7 []
tall to very tall		8 []
very tall		9 []

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note	
5.4 Leaf blade: width (7)			
very narrow	LM300	1 []	
very narrow to narrow		2 []	
narrow	Merlom Ruby	3 []	
narrow to medium		4 []	
medium	Stormy Seas	5 []	
medium to broad		6 []	
broad	Cassica	7 []	
broad to very broad		8 []	
very broad		9 []	
5.5 Leaf: glaucosity of adaxial surface (13)			
very weak	Lime Tuff	1 []	
very weak to weak		2 []	
weak	Katrinus	3 []	
weak to medium		4 []	
medium	Merlom Ruby	5 []	
medium to strong		6 []	
strong	SIR5	7 []	
strong to very strong		8 []	
very strong	Stormy Seas	9 []	
5.6 Leaf: variegation (14)			
absent		1 []	
present	LMV100 WN002	9 []	

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 similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Plant: habit</i>	<i>semi upright</i>	<i>drooping</i>
Comments:			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>#7. Additional information which may help in the examination of the variety</p> <p>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?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.2 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p> <p>A representative color image of the variety should accompany the Technical Questionnaire.</p>		
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [] No []</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [] No []</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>		

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 or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details for where you have indicated “yes”.

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name	<input type="text"/>		
Signature	<input type="text"/>	Date	<input type="text"/>

[End of document]