



TG/CORDY(proj.2)

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

CORDYLINE

UPOV Code: CORDY

Cordyline Comm. ex Juss.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from New Zealand**to be considered by the*

*Technical Working Party for Ornamental Plants and Forest Trees
at its forty-seventh session, to be held in Naivasha, Kenya, from May 19 to 23, 2014*

Alternative Names:^{*}

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Cordyline</i> Comm. ex Juss.	Cordyline, Cabbage Tree, Torquay Palm	Cordyline	Keulenbaum, Keulenlilie	Cordyline

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 *Cordylina* Comm. ex Juss.

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 which express the 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:

8 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 8 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 7 plants or parts taken from each of 7 plants and any other observations made on all plants in the test, disregarding any off-type plants. In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 2.

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 8 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:

- (a) Plant: growth habit (characteristic 1)
- (b) Plant: basal shoots (characteristic 4)
- (c) Leaf blade: width (characteristic 17)
- (d) Leaf: main color of upper side (characteristic 21) with the following groups:
 - white
 - yellow
 - green
 - red
 - purple
 - brown
 - blackish
- (e) Leaf: secondary color of upper side (characteristic 22) with the following groups:
 - white
 - yellow
 - green
 - red
 - purple
 - brown
 - blackish

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*

- (*) Asterisk characteristic – see Chapter 6.1.2
- QL Qualitative characteristic – see Chapter 6.3
- QN Quantitative characteristic – see Chapter 6.3
- PQ Pseudo-qualitative characteristic – see Chapter 6.3

- MG, MS, VG, VS – see Chapter 4.1.5

- (a)-(d) 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: growth habit					
QN	upright				Southern Splendour	1
	semi upright				Tana	3
	spreading				Red Fountain	5
2. VG/ MG	Plant: height					
QN	short				Tana	3
	medium				Red Fountain	5
	tall				Jel01	7
3. VG/ MG	Plant: width					
QN	narrow				Pink Champagne	3
	medium				Red Star	5
	broad				Can Can	7
4. VG (*) (+)	Plant: basal shoots					
QL	absent				Southern Splendour	1
	present				Tana	9
5. VG/ MG	Plant: number of basal shoots					
QN	few				Green Goddess	1
	medium				Tana	2
	many				Red Fountain	3
6. VG/ MS (*) (+)	Petiole: length					
QN (a)	very short				Cardinal	1
	short				Tana	3
	medium				Jel01	5
	long				Purple Sensation	7
	very long				Red Fountain	9
7. VG/ MG (*) (+)	Petiole: width at narrowest point					
QN (a)	narrow				Red Fountain	1
	medium				Cardinal	2
	broad				Green Goddess	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
8.	VG	Petiole: profile in cross section				
(*)						
(+)						
QN	(a)	flat or slightly concave			Cardinal	1
		moderately concave			Purple Sensation	2
		strongly concave			Red Fountain	3
9.	VG	Petiole: main color inner side				
(*)						
(+)						
PQ	(a)	RHS Colour Chart (indicate reference number)				
10.	VG	Young leaf: main color				
(*)						
(+)						
PQ	(b)	RHS Colour Chart				
	(d)	(indicate reference number)				
11.	VG	Young leaf: secondary color				
(+)						
PQ	(b)	RHS Colour Chart				
	(d)	(indicate reference number)				
12.	VG	Young leaf: tertiary color (upper side)				
(+)						
PQ	(b)	RHS Colour Chart				
	(d)	(indicate reference number)				
13.	VG	Leaf: position of apex in relation to point of attachment				
(*)						
(+)						
QN	(c)	above				1
		level				2
		below				3
14.	VG	Leaf: attitude of distal third				
(*)						
(+)						
QN	(c)	erect			Pink Champagne	1
		semi erect			Purple Sensation	2
		horizontal			Red Fountain	3
		drooping			Cha Cha	4
15.	VG	Leaf: attitude of basal third				
(+)						
QN	(c)	erect			Pink Champagne	1
		semi erect			Red Star	2
		horizontal			Can Can	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16. VG/ MS (*)	Leaf blade: length					
QN (c)	very short				Karo Kiri	1
	short				Pink Champagne	3
	medium				Tana	5
	long				Purple Sensation	7
	very long				Red Fountain	9
17. VG/ MS (*)	Leaf blade: width					
QN (c)	very narrow				Pink Champagne	1
	narrow				Red Fountain	2
	medium				Purple Sensation	3
	broad				Green Goddess	4
18. VG (*) (+)	Leaf: prominence of midrib on lower side					
QN (c)	weak				Green Goddess	1
	medium				Tana	3
	strong				Red Fountain	5
19. VG (*) (+)	Leaf: venation on upper side					
QL (c)	parallel				Red Fountain	1
	angled				Tana	2
20. VG (*) (+)	Leaf: glossiness of upper side					
QN (c)	absent or very weak					1
(d)	weak					2
	medium				Tana	3
	strong					4
21. VG (*) (+)	Leaf: main color of upper side					
PQ (c)	RHS Colour Chart					
(d)	(indicate reference number)					
22. VG (*) (+)	Leaf: secondary color of upper side					
PQ (c)	RHS Colour Chart					
(d)	(indicate reference number)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
23.	VG	Leaf: distribution of secondary color striping (upper side)				
(+)						
PQ	(b)	midrib only			Purple Sensation	1
	(d)	margin and midrib only			Albertii	2
		entire			Can Can	3
24.	VG	Leaf: tertiary color				
PQ	(c)	RHS Colour Chart				
	(d)	(indicate reference number)				
25.	VG	Leaf: main color of lower side				
(*)						
(+)						
PQ	(c)	RHS Colour Chart (indicate reference number)				

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) Observations on the petiole should be made on a mature leaf in the middle third of a stem.
- (b) Observations on the young leaf should be made on the leaves at the apex of the main stem.
- (c) Observations on the leaf and leaf blade should be made on mature leaves in the middle third of a stem.
- (d) Observations on color and glossiness of the leaf should be made on the upper side.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: growth habit



1
upright



3
semi upright



5
spreading

Ad. 4: Plant: basal shoots



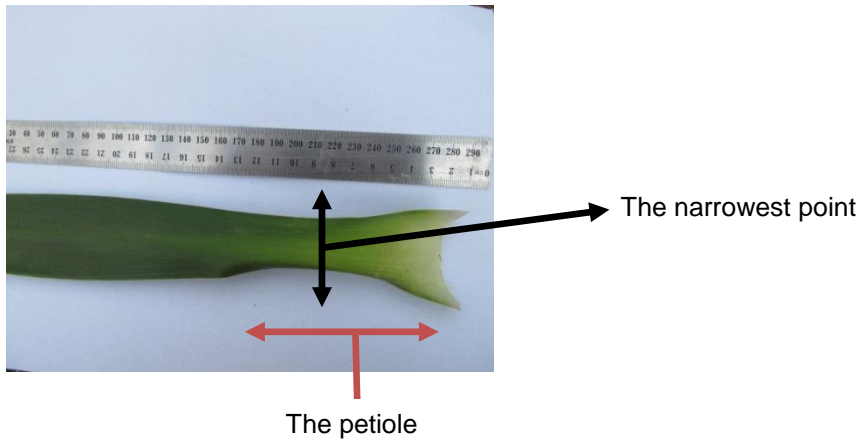
1
absent



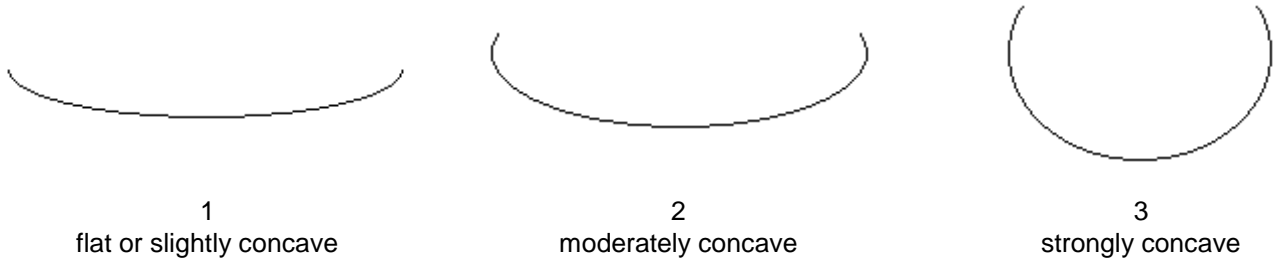
9
present

Ad. 6: Petiole: length

Ad. 7: Petiole: width at narrowest point



Ad. 8: Petiole: profile in cross section



Ad. 10: Young leaf: main color

The main color is the color with the largest surface area present on the inner side of a leaf. In cases where the areas of the main and secondary colors are too similar to reliably decide which color has the largest area of the blade, the darkest color is considered to be the main color. e.g. For a light yellow and medium green leaf, medium green is considered the main color.

Ad. 11: Young leaf: secondary color

The main color is the color with the largest surface area present on the inner side of a leaf. In cases where the areas of the main and secondary colors are too similar to reliably decide which color has the largest area of the blade, the darkest color is considered to be the main color. e.g. For a light yellow and medium green leaf, light yellow is considered the secondary color.

Ad. 13: Leaf: position of apex in relation to point of attachment



1
above



2
level



3
below

Ad. 14: Leaf: attitude of distal third



1
erect



2
semi erect



3
horizontal



4
drooping

Ad. 15: Leaf: attitude of basal third



1
erect



2
semi erect



3
horizontal

Ad. 18: Leaf: prominence of midrib on lower side



3
weak



5
medium



7
strong

Ad. 19: Leaf: venation on upper side



1
parallel



2
angled

Ad. 21: Leaf: main color of upper side

The main color is the color with the largest surface area present on the upper side of a leaf. In cases where the areas of the main and secondary colors are too similar to reliably decide which color has the largest area of the blade, the darkest color is considered to be the main color. e.g. For a light yellow and medium green leaf, medium green is considered the main color.

Ad. 22: Leaf: secondary color of upper side

The main color is the color with the largest surface area present on the upper side of a leaf. In cases where the areas of the main and secondary colors are too similar to reliably decide which color has the largest area of the blade, the darkest color is considered to be the main color. e.g. For a light yellow and medium green leaf, light yellow is considered the secondary color.

Ad. 23: Leaf: distribution of secondary color striping (upper side)



1
midrib only



2
marginal and midrib only



3
entire

Ad. 25: Leaf: main color of lower side

The main color is the color with the largest surface area present on the lower side of a leaf. In cases where the areas of the main and secondary colors are too similar to reliably decide which color has the largest area of the blade, the darkest color is considered to be the main color.

9. Literature

Harris W., 2001: Horticultural and conservation significance of the genetic variation of cabbage trees (*Cordyline* spp.). In: Oates MR ed. New Zealand plants and their story: proceedings of a conference held in Wellington 1-3 October 1999. Lincoln, Royal New Zealand Institute of Horticulture. Pp. 87-91.

Metcalf L.J., 1975: The Cultivation of New Zealand trees and shrubs, AH & AW Reed Ltd. Auckland, New Zealand

Poole A.L. and Adams N.M., 1986: Trees and Shrubs of New Zealand; Government Printing Office Publishing, Wellington, New Zealand, [pp 38 to 42].

Simpson P., 2000: Dancing Leaves: The story of the New Zealand cabbage tree, Canterbury University Press, Christchurch, New Zealand

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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	Application date: (not to be filled in by the applicant)
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TECHNICAL QUESTIONNAIRE
to be completed in connection with an application for plant breeders' rights

1. Subject of the Technical Questionnaire

1.1 Botanical name

1.2 Common name

1.3 Species

2. Applicant

Name

Address

Telephone No.

Fax No.

E-mail address

Breeder (if different from applicant)

3. Proposed denomination and breeder's reference

Proposed denomination
(if available)

Breeder's reference

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) division
- (b) *in vitro* propagation []
- (c) other (state method) []

[]

4.2.3 Other []
(please provide details)

[]

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: growth habit (1)		
upright	Southern Splendour	1[]
upright to semi upright		2[]
semi upright	Tana	3[]
semi upright to spreading		4[]
spreading	Red Fountain	5[]
5.2 Plant: basal shoots (4)		
absent	Southern Splendour	1[]
present	Tana	9[]
5.3 Leaf blade: width (17)		
very narrow	Pink Champagne	1[]
narrow	Red Fountain	2[]
medium	Purple Sensation	3[]
broad	Green Goddess	4[]
5.4 i Leaf: main color of upper side (21)		
RHS Colour Chart (indicate reference number)		
5.4 ii Leaf: main color of upper side (21)		
white		1[]
yellow		2[]
green		3[]
red		4[]
purple		5[]
brown		6[]
blackish		7[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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Characteristics	Example Varieties	Note
5.5 i Leaf: secondary color of upper side (22) RHS Colour Chart (indicate reference number)		
5.5 ii Leaf: secondary color of upper side (22) white		1[]
yellow		2[]
green		3[]
red		4[]
purple		5[]
brown		6[]
blackish		7[]

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: growth habit</i>	<i>semi-upright</i>	<i>spreading</i>

Comments:

--

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [] No []

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes [] No []

(If yes, please provide details)

7.3 Main use of the variety

- (a) container plant []
- (b) garden plant []
- (c) other []
(please provide details)

.....

A representative color image of the variety should accompany the Technical Questionnaire.

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to (b) is yes, please attach a copy of the authorization.

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"/>

[Annex follows]

ANNEX

The Netherlands

Char. 2. Plants: height of foliage; Add+ and illustration

Char. 4. Plant: basal shoots; Because the number of basal shoots can differ would it not be better to include an extra char. (number of basal shoots) or change the expressions into: absent/few/medium/ many

Char. 14. Leaf: attitude of upper third; Would it not be better to the following expressions: straight/reflexed/strongly reflexed/drooping? Add. an explanation which leaf should observed.

Char. 9,21. Leaf: main color of upper side; Is it always clear to define the main color, secondary color or tertiary color? In my opinion there are sometimes several purple red colors or green colors on one leaf blade which have almost the same surface area.

Why not define location of tertiary color?

South Africa

5.3 Grouping characteristics

(e) and (f) ; should correspond with the wording in the table of characteristics

7. Table of Characteristics

Char. 5 – 8: Check if it is a petiole or a leaf sheath?

Char. 7: Note 1: straight or slightly concave

Char. 14 Leaf: attitude of distal third

Char. 15 Leaf: attitude of basal third

8.1 (a) Observations on the petiole should be made on a mature leaf in the middle third of a stem.

European Union

2.2 Young plants are requested but the photos seem to show plants that are far older than one year.

4.1.4each of 6 plants.....?

5.3 e and f should match wording in table of characteristics

Character 2 Plant: height of foliage How is this measured?

Character 4 Plant: basal shoots VG only. Delete (a). Is this influenced by the method of propagation?

Leaf: attitude of upper third 4 or nine note scale? Not consistent with explanations.

Leaf blade: width Question use of 9 notes

Leaf: prominence of midrib Question use of nine notes

Explanations

Plant growth habit Do the photos not rather show the attitude of the leaves then the growth habit of the shoot?

Leaf: position of apex in relation to point of attachment Is a drawing not clearer than photos?

Leaf main colour/secondary colour inner or upper side consistency

Technical Questionnaire

5. Example varieties different from Table of Characteristics

Petiole length Is this suitable for breeders to provide this information?

Australia

The guidelines should be limited to certain species covered and in particular exclude varieties of *C. brasiliensis* and *C. fruticosa* (*C. terminalis*)

[End of Annex and of document]