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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

**Aglaonema**

UPOV Code: AGLAO

Aglaonema Schott

### GUIDELINES

#### FOR THE CONDUCT OF TESTS

#### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by (an) expert(s) from Japan*

*to be considered by the*

*Technical Working Party for Ornamental Plants and Forest Trees  
 at its forty-eighth session  
 to be held in Cambridge, United Kingdom,  
 from 2015-09-14  
 to 2015-09-18*

Alternative Names: <sup>*</sup>				
<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
Aglaonema Schott	Chinese Evergreen			

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.

<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](http://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 Aglaonema Schott.

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 capable of expressing all relevant characteristics over the growing period.

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

10 rooted cuttings.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

3.1.1 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, 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:

(a) Leaf blade: length (characteristic 9)

(b) Leaf blade: width (characteristic 10)

(c) Leaf blade: color covering the largest surface area on upper side, with the following color groups:

Gr. 1: white

Gr. 2: green

Gr. 3: grey green

Gr. 4: yellow

Gr. 5: red

Gr. 6: red purple

(d) Leaf blade: color covering the second largest surface area on upper side, with the following color groups:

Gr. 1: white

Gr. 2: green

Gr. 3: grey green

Gr. 4: yellow

Gr. 5: red

Gr. 6: red purple

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)-(q) See Explanations on the Table of Characteristics in Chapter 8.

(+) See Explanations on the Table of Characteristics in Chapter 8.

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

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
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1. QN MG VG

**Plant: height**

**Plante: hauteur**

**Pflanze: Höhe**

**Planta: altura**

short  
medium  
tall

basse  
moyenne  
haute

niedrig  
mittel  
hoch

baja  
media  
alta

Subrungrueng  
Chalit's Pride  
Thep Ranjuan

3  
5  
7

2. QN MS VG (+)

**Plant: number of basal shoots**

**Plante: nombre de pousses basales**

**Pflanze: Anzahl Basistriebe**

**Planta: número de ramas basales**

absent or very few  
few  
medium  
many

Cassic  
  
Katharngen  
Chaowang

1  
2  
3  
4

3. QN MS VG (a)

(b)

**Petiole: length**

**Pétiole: longueur**

**Blattstiel: Länge**

**Pecíolo: longitud**

short  
medium  
long

court  
moyen  
long

kurz  
mittel  
lang

corta  
media  
larga

Chalit  
Katharngen

3  
5  
7

4. PQ VG (a) (c)

**Petiole: main color**

**Pétiole : couleur principale**

**Blattstiel: Hauptfarbe**

**Pecíolo: color principal**

RHS Colour Chart (indicate reference number)

Code RHS des couleurs (indiquer le numéro de référence)

RHS-Farbkarte (Nummer angeben)

Carta de colores RHS (indicar el número de referencia)

5. (\*) PQ VG (a)

(c)

**Petiole: secondary color (if present)**

RHS Colour Chart (indicate reference number)



English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
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6. (\*) QN MS VG

(a) (b)

<b>Leaf sheath: length</b>	<b>Gaine de la feuille: longueur</b>	<b>Blattscheide: Länge</b>	<b>Vaina de la hoja: longitud</b>		
absent or very short				World Heritage	1
short				Bebadary	3
medium				Pritty	5
long				Katharngen	7

7. QN VG (+) (a)

**Leaf sheath:  
angle of apical  
part**

strongly acute				Saisamorn	1
moderately acute					2
rectangular				Supmongkon	3
moderately obtuse					4
strongly obtuse				Katharngen	5

8. (\*) PQ VG (a)

(c)

**Leaf sheath:  
main color of  
outer side**  
RHS Colour Chart  
(indicate  
reference  
number)

9. (\*) QN MS VG

(a) (d)

<b>Leaf blade: length</b>	<b>Limbe : longueur</b>	<b>Blattspreite: Länge</b>	<b>Limbo: longitud</b>		
short	court	kurz	corto	Black Beauty	3
medium				Tiara	5
long				Thep Ranjuan	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
---------	----------	---------	---------	--	------------

10. (\*) QN MS VG  
 (a) (d)

Leaf blade: width	Limbe : largeur	Blattspreite: Breite	Limbo: anchura		
narrow	étroit	schmal	estrecho	Thep Ranjuan	3
medium				Katharngen	5
broad				World Heritage	7

11. QN MS VG  
 (+) (a)

Leaf blade: ratio length/width	Limbe : rapport longueur/largeur	Blattspreite: Verhältnis Länge/Breite	Limbo: relación longitud/anchura		
low				Parumruay	3
medium				Katharngen	5
high					7

12. (\*) QN VG  
 (+) (a)

Leaf blade: position of broadest part	Limbe: forme du sommet	Blattspreite: Form der Spitze	Limbo: forma del ápice		
toward base	vers la base	zur Basis hin	hacia la base	Ribbon Evergreen	1
at middle	au milieu	in der Mitte	en el medio	Pride of Sumatra	2
toward apex	vers le sommet	zur Spitze hin	hacia el ápice	Ik Q san	3

13. (\*) PQ VG (+)  
 (a)

Leaf blade: shape of apex	Limbe: forme du sommet	Blattspreite: Form der Spitze	Limbo: forma del ápice		
strongly acute					1
moderately acute					2
obtuse					3

14. (\*) PQ VG (+)  
 (a)

Leaf blade: shape of base	Limbe: forme de la base	Blattspreite: Form der Basis	Limbo: forma de la base		
attenuate				Thep Ranjuan	1
acute					2
obtuse				Chalit	3
truncate					4
cordate				World Heritage	5

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
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15. (\*) PQ VG (a)  
 (e) (f) (g)  
**Leaf blade: color 1**  
 RHS Colour Chart  
 (indicate reference  
 number)

16. (*) PQ VG (a) (e) (f) (g) (h) (i) (j) (k) <b>Leaf blade: distribution of color 1</b>	
along midrib	1
at margin	2
between midrib and margin	3
along veins	4
between veins	5
throughout	6
along midrib and at margin	7
along midrib and along veins	8
along midrib and throughout	9
along veins and between veins	10
at margin and throughout	11
along midrib, along veins and throughout	12
along midrib, along veins and between veins	13

17. (*) QL VG (a) (e) (f) (g) <b>Leaf blade: pattern of color 1: brothches</b>	
absent	1
present	9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
<hr/>					
18. (*) QN VG (a) (e) (f) (g) (l) <b>Leaf blade: pattern of color 1: size of blotches</b> small medium large					1 2 3
<hr/>					
19. (*) QL VG (a) (e) (f) (g) (m) <b>Leaf blade: pattern of color 1: central bar</b> absent present					1 9
<hr/>					
20. (*) QL VG (a) (e) (f) (g) (n) <b>Leaf blade: pattern of color 1: stripes</b> absent present					1 9
<hr/>					
21. (*) QL VG (a) (e) (f) (g) (o) <b>Leaf blade: pattern of color 1: marginal zone</b> absent present					1 9
<hr/>					
22. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade: pattern of color 1: solid or nearly solid</b> absent present					1 9
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
23. (*) QN VG (a) (e) (f) (g) <b>Leaf blade: total area of color 1</b>					
small					3
medium					5
large					7
<hr/>					
24. (*) PQ VG (a) (e) (f) (g) <b>Leaf blade: color 2</b> RHS Colour Chart (indicate reference number)					
<hr/>					
25. (*) PQ VG (a) (e) (f) (g) (h) (i) (j) (k) <b>Leaf blade: distribution of color 2</b>					
along midrib					1
at margin					2
between midrib and margin					3
along veins					4
between veins					5
throughout					6
along midrib and at margin					7
along midrib and along veins					8
along midrib and throughout					9
along veins and between veins					10
at margin and throughout					11
along midrib, along veins and through					12
along midrib, along veins and between veins					13
along midrib, at margin and along veins					14
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
26. (*) QL VG (a) (e) (f) (g) <b>Leaf blade:</b> <b>pattern of color</b> <b>2: blotches</b>					
absent					1
present					9
<hr/>					
27. (*) QN VG (a) (e) (f) (g) (l) <b>Leaf blade:</b> <b>pattern of color</b> <b>2: size of blotches</b>					
small					1
medium					2
large					3
<hr/>					
28. (*) QL VG (a) (e) (f) (g) (m) <b>Leaf blade:</b> <b>pattern of color</b> <b>2: central bar</b>					
absent					1
present					9
<hr/>					
29. (*) QL VG (a) (e) (f) (g) (n) <b>Leaf blade:</b> <b>pattern of color</b> <b>2: stripes</b>					
absent					1
present					9
<hr/>					
30. (*) QL VG (a) (e) (f) (g) (o) <b>Leaf blade:</b> <b>pattern of color</b> <b>2: marginal zone</b>					
absent					1
present					9
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
<hr/>					
31. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade: pattern of color 2: solid or nearly solid</b> absent present					1 9
<hr/>					
32. (*) QN VG (a) (e) (f) (g) <b>Leaf blade: total area of color 2</b> small medium large					3 5 7
<hr/>					
33. (*) PQ VG (a) (e) (f) (g) <b>Leaf blade: color 3</b> RHS Colour Chart(indicate reference number)					
<hr/>					
34. (*) PQ VG (a) (e) (f) (g) (h) (i) (j) (k) <b>Leaf blade: distribution of color 3</b> along midrib at margin between midrib and margin along veins between veins throughout along midrib and at margin along midrib and along veins along midrib and throughout along veins and between veins at margin and throughout along midrib, along veins and throughout along midrib, along veins and between veins along midrib, at margin and along veins					1 2 3 4 5 6 7 8 9 10 11 12 13 14
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
35. (*) QL VG (a) (e) (f) (g) <b>Leaf blade:</b> <b>pattern of color</b> <b>3: blotches</b>					
absent					1
present					9
<hr/>					
36. (*) QN VG (a) (e) (f) (g) (l) <b>Leaf blade:</b> <b>pattern of color</b> <b>3: size of blotches</b>					
small					1
medium					2
large					3
<hr/>					
37. (*) QL VG (a) (e) (f) (g) (m) <b>Leaf blade:</b> <b>pattern of color</b> <b>3: central bar</b>					
absent					1
present					9
<hr/>					
38. (*) QL VG (a) (e) (f) (g) (n) <b>Leaf blade:</b> <b>pattern of color</b> <b>3: stripes</b>					
absent					1
present					9
<hr/>					
39. (*) QL VG (a) (e) (f) (g) (o) <b>Leaf blade:</b> <b>pattern of color</b> <b>3: marginal zone</b>					
absent					1
present					9
<hr/>					



English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
40. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade: pattern of color 3: solid or nearly solid</b>					
absent					1
present					9
<hr/>					
41. (*) QN VG (a) (e) (f) (g) <b>Leaf blade: total area of color 3</b>					
small					3
medium					5
large					7
<hr/>					
42. (*) PQ VG (a) (e) (f) (g) <b>Leaf blade:color 4</b> RHS Colour Chart(indicate reference number)					
<hr/>					
43. (*) PQ VG (a) (e) (f) (g) (h) (i) (j) (k) <b>Leaf blade: distribution of color 4</b>					
along midrib					1
at margin					2
between midrib and margin					3
along veins					4
between veins					5
throughout					6
along midrib and at margin					7
along midrib and along veins					8
along midrib and throughout					9
along veins and between veins					10
at margin and throughout					11
along midrib, along veins and throughout					12
along midrib, along veins and between veins					13
along midrib, at margin and along veins					14
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
<hr/>					
44. (*) QL VG (a) (e) (f) (g) <b>Leaf blade:</b> <b>pattern of color</b> <b>4: blotches</b> absent present					1 9
<hr/>					
45. (*) QN VG (a) (e) (f) (g) (l) <b>Leaf blade:</b> <b>pattern of color</b> <b>4: size of blotches</b> small medium large					1 2 3
<hr/>					
46. (*) QL VG (a) (e) (f) (g) (m) <b>Leaf blade:</b> <b>pattern of color</b> <b>4: central bar</b> absent present					1 9
<hr/>					
47. (*) QL VG (a) (e) (f) (g) (n) <b>Leaf blade:</b> <b>pattern of color</b> <b>4: stripes</b> absent present					1 9
<hr/>					
48. (*) QL VG (a) (e) (f) (g) (o) <b>Leaf blade:</b> <b>pattern of color</b> <b>4: marginal zone</b> absent present					1 9
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
49. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade: pattern of color 4: solid or nearly solid</b>					
absent					1
present					9
<hr/>					
50. (*) QN VG (a) (e) (f) (g) <b>Leaf blade: total area of color 4</b>					
small					3
medium					5
large					7
<hr/>					
51. (*) PQ VG (a) (e) (f) (g) <b>Leaf blade: color 1 of lower side</b> RHS Colour Chart (indicate referebce number)					
<hr/>					
52. (*) PQ VG (a) (e) (f) (g) (h) (q) <b>Leaf blade: distribution of color 1 of lower side</b>					
along midrib					1
at margin					2
between midrib and margin					3
along veins					4
between veins					5
throughout					6
along midrib and at margin					7
along midrib and along veins					8
along midrib and throughout					9
along veins and between veins					10
at margin and throughout					11
along midrib, along veins and throughout					12
along midrib, along veins and between veins					13
along midrib, at margin and along veins					14
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
53. (*) QL VG (a) (e) (f) (g)					
<b>Leaf blade: pattern of color 1 of lower side: blotches</b>					
absent					1
present					9
<hr/>					
54. (*) QN VG (a) (e) (f) (g) (l)					
<b>Leaf blade: pattern of color 1 of lower side: size of blotches</b>					
small					1
medium					2
large					3
<hr/>					
55. (*) QL VG (a) (e) (f) (g) (m)					
<b>Leaf blade: pattern of color 1 of lower side: central bar</b>					
absent					1
present					9
<hr/>					
56. (*) QL VG (a) (e) (f) (g) (n)					
<b>Leaf blade: pattern of color 1 of lower side: stripes</b>					
absent					1
present					9
<hr/>					
57. (*) QL VG (a) (e) (f) (g) (o)					
<b>Leaf blade: pattern of color 1 of lower side: marginal zone</b>					
absent					1
present					9
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
58. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade: pattern of color 1 of lower side: solid or nearly solid</b>					
absent					1
present					9
<hr/>					
59. (*) QL VG (a) (e) (f) (g) <b>Leaf blade: total area of color 1 of lower side</b>					
small					3
medium					5
large					7
<hr/>					
60. (*) PQ VG (a) (e) (f) (g) <b>Leafblade: color 2 of lower side</b> RHS Colour Chart (indicate reference number)					
<hr/>					
61. (*) PQ VG (a) (e) (f) (g) (h) (q) <b>Leaf blade: distribution of color 2 of lower side</b>					
along midrib					1
at margin					2
between midrib and margin					3
along veins					4
between veins					5
throughout					6
along midrib and at margin					7
along midrib and along veins					8
along midrib and throughout					9
along veins and between veins					10
at margin and throughout					11
along midrib, along veins and throughout					12
along midrib, along veins and between veins					13
along midrib, at margin and along veins					14
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
62. (*) QL VG (a) (e) (f) (g)					
<b>Leaf blade: pattern of color 2 of lower side: blotches</b>					
absent					1
present					9
<hr/>					
63. (*) QN VG (a) (e) (f) (g) (l)					
<b>Leaf blade: pattern of color 2 of lower side: size of blotches</b>					
small					1
medium					2
large					3
<hr/>					
64. (*) QL VG (a) (e) (f) (g) (m)					
<b>Leaf blade: pattern of color 2 of lower side: central bar</b>					
absent					1
present					9
<hr/>					
65. (*) QL VG (a) (e) (f) (g) (n)					
<b>Leaf blade: pattern of color 2 of lower side: stripes</b>					
absent					1
present					9
<hr/>					
66. (*) QL VG (a) (e) (f) (g) (o)					
<b>Leaf blade: pattern of color 2 of lower side: marginal zone</b>					
absent					1
present					9
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
67. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade: pattern of color 2 of lower side: solid or nearly solid</b>					
absent					1
present					9
<hr/>					
68. (*) QN VG (a) (e) (f) (g) <b>Leaf blade: total area of color 2 of lower side</b>					
small					3
medium					5
large					7
<hr/>					
69. (*) PQ VG (a) (e) (f) (g) <b>Leaf blade: color 3 of lower side</b> RHS Color Chart (indicate reference number)					
<hr/>					
70. (*) PQ VG (a) (e) (f) (g) (h) (q) <b>Leaf blade: distribution of color 3 of lower side</b>					
along midrib					1
at margin					2
between midrib and margin					3
along veins					4
between veins					5
throughout					6
along midrib and at margin					7
along midrib and along veins					8
along midrib and throughout					9
along midrib, at margin and along veins					9
along veins and between veins					10
at margin and throughout					11
along midrib, along veins and throughout					12
along midrib, along veins and between veins					13
along midrib, at margin and along veins					14
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
71. (*) QL VG (a) (e) (f) (g)					
<b>Leaf blade: pattern of color 3 of lower side: blotches</b>					
absent					1
present					9
<hr/>					
72. (*) QN VG (a) (e) (f) (g) (l)					
<b>Leaf blade: pattern of color 3 of lower side: size of blotches</b>					
small					1
medium					2
large					3
<hr/>					
73. (*) QL VG (a) (e) (f) (g) (m)					
<b>Leaf blade: pattern of color 3 of lower side: central bar</b>					
absent					1
present					9
<hr/>					
74. (*) QL VG (a) (e) (f) (g) (n)					
<b>Leaf blade: pattern of color 3 of lower side: stripes</b>					
absent					1
present					9
<hr/>					
75. (*) QL VG (a) (e) (f) (g) (o)					
<b>Leaf blade: pattern of color 3 of lower side: marginal zone</b>					
absent					1
present					9
<hr/>					



English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
76. (*) QL VG (a) (e) (f) (g) (p) <b>Leaf blade:</b> <b>pattern of color 3</b> <b>of lower side:</b> <b>solid or nearly</b> <b>solid</b>					
absent					1
present					9
<hr/>					
77. (*) QN VG (a) (e) (f) (g) <b>Leaf blade: total</b> <b>area of color 3 of</b> <b>lower side</b>					
small					3
medium					5
large					7
<hr/>					
78. (*) QN VG (a) (e) <b>Leaf blade:</b> <b>glossiness</b>					
absent or very weak				Katharngen	1
weak					2
medium					3
strong				Black Beauty	4
<hr/>					
79. (*) QN VG (+) (a) <b>Leaf blade:</b> <b>blistering</b>					
absent or weak				Katharngen	1
medium				Tiara	2
strong					3
<hr/>					
80. (*) QN VG (a) <b>Leaf blade:</b> <b>undulation of</b> <b>margin</b>					
absent or very weak				Chalit's Pride	1
weak				Katharngen	2
medium				Saisamorn	3
strong				Black Beauty	4

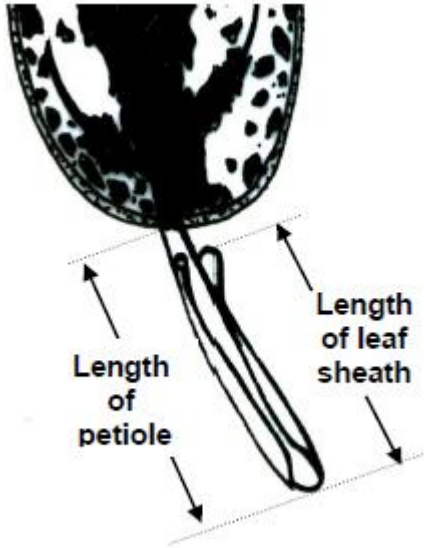
English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
81. (*) QN VG (+)					
(a)					
<b>Leaf blade:</b>					
<b>profile in cross section</b>					
flat				Katharngen	1
slightly concave					2
moderately concave				Tiara	3
<hr/>					
82. (*) QN MS VG					
(+) (a)					
<b>Leaf blade:</b>					
<b>number of veins on lower side</b>					
few				Black Beauty	1
medium					2
many				Kwakngen	3
<hr/>					
83. (*) QN VG (+)					
(a)					
<b>Leaf blade:</b>					
<b>midrib: profile</b>					
raised				Legacy	1
flat				Katharngen	2
sunken				Russamithong	3

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

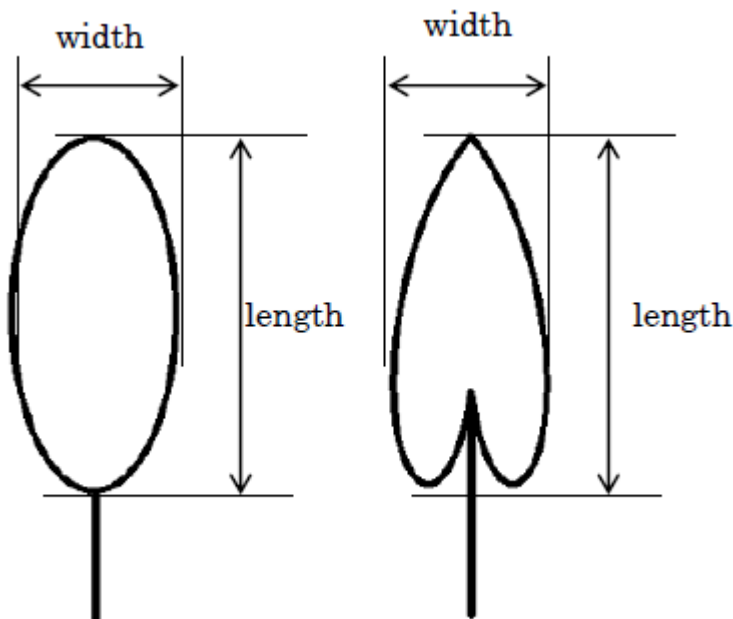
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) Leaf should be observed on the full grown leaves on middle third of foliage.
- (b) Petiole: length and Leaf sheath: length should be observed as a following.



- (c) The main color is the color with the largest surface area. in case where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color.

- (d) Leaf blade: length and Leaf blade: width should be observed as followings.

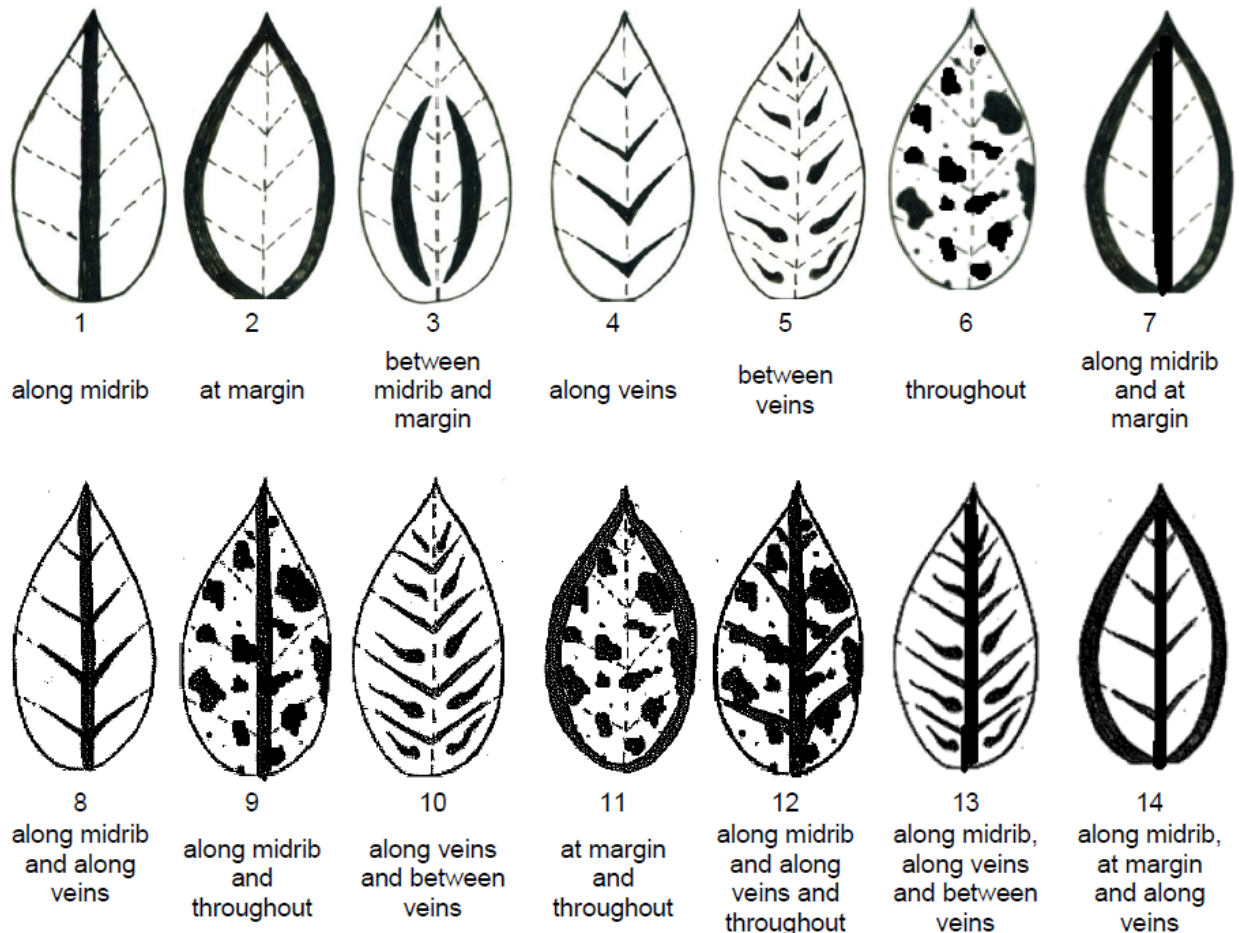


- (e) Unless otherwise indicated, to be observed on the upper side of leaves.

(f) Where the characteristics refers to colors as "color 1", "color 2" etc., they are to be recorded in the order that they appear on the RHS chart, i.e. color 1 is the one with the lowest number, color 2 with the second lowest and so on. For example, if the leaves are Green 137A patched with the White 155A, Green 137A will be a color 1 and White 155A color 2. If two colors are on the same page of the chart, for example Green 137A and Green 137D, 137A is regarded as the lower numbered color. It should be noted that under this system, ranking is independent of surface area, so the color covering the greatest surface area may be classified as color 3 or 4. The Guideline makes provision for four colors, if there are more, the color(s) with the smallest surface area(s) should be disregarded.

(g) In Aglaonema leaf color is very significant to the overall appearance of the variety. Leaves often have several colors in different patterns. This guideline allows the description of up to four colors using the RHS Colour Charts as well as the distributions, the patterns formed and the areas covered. Although the colors are referred to as "color 1", "color 2", "color 3" and "color 4" in the headings, this does not indicate a ranking according to prominence or area covered. The order in which the colors should be observed is dictated by the order the colors appear in the RHS Colour Charts, as described in followings. Example varieties have not been provided for the leaf color characteristics. This is because the number of combinations of observations that this guideline allows for, is larger than number of combinations seen. Providing example varieties for all states of expression in this cases would be misleading. In order to provide an illustration of the recording method, different worked examples are provided below, in (p),(q),(r) and (s).

(h) Leaf blade: distribution of color should be observed as followings. As additional explanation to these diagrams, the states of 'along midrib' may include the states of 'on mid rib'. 'veins' mean to primary lateral veins. 'along veins' may not mean along all primary veins.



(i) Example-One Variety with three colors on upper side of leaf  
Example One – Pride of Sumatra (variety with three leaf colors)



15 Leaf blade: color 1	Red Purple 64B
16 Leaf blade: distribution of color 1	8 along midrib and along veins
17 Leaf blade: pattern of color 1: blotches	1 absent
18 Leaf blade: pattern of color 1: size of blotches	not applicable
19 Leaf blade: pattern of color 1: central bar	9 present
20 Leaf blade: pattern of color 1: stripes	9 present
21 Leaf blade: pattern of color 1: marginal zone	1 absent
22 Leaf blade: pattern of color 1: solid or nearly solid	1 absent
23 Leaf blade: total area of color 1	1 very small
24 Leaf blade: color 2	Green N137A
25 Leaf blade: distribution of color 2	6 throughout
26 Leaf blade: pattern of color 2: blotches	1 absent
27 Leaf blade: pattern of color 2: size of blotches	not applicable
28 Leaf blade: pattern of color 2: central bar	1 absent
29 Leaf blade: pattern of color 2: stripes	1 absent
30 Leaf blade: pattern of color 2: marginal zone	1 absent
31 Leaf blade: pattern of color 2: solid or nearly solid	9 present
32 Leaf blade: total area of color 2	7 large
33 Leaf blade: color 3	Yellow Green 145D
34 Leaf blade: distribution of color 3	1 along midrib
35 Leaf blade: pattern of color 3: blotches	1 absent
36 Leaf blade: pattern of color 3: size of blotches	1 absent
37 Leaf blade: pattern of color 3: central bar	9 present
38 Leaf blade: pattern of color 3: stripes	9 present
39 Leaf blade: pattern of color 3: marginal zone	1 absent
40 Leaf blade: pattern of color 3: solid or nearly solid	1 absent
41 Leaf blade: total area of color 3	1 very small
42 Leaf blade: color 4	not applicable
43 Leaf blade: distribution of color 4	not applicable
44 Leaf blade: pattern of color 4: blotches	not applicable
45 Leaf blade: pattern of color 4: size of blotches	not applicable
46 Leaf blade: pattern of color 4: central bar	not applicable
47 Leaf blade: pattern of color 4: striped	not applicable
48 Leaf blade: pattern of color 4: marginal zone	not applicable
49 Leaf blade: pattern of color 4: solid or nearly solid	not applicable
50 Leaf blade: total area of color 4	not applicable

(j) Example-Two Variety with three colors on upper side of leaf  
Example Two – Spotted Evergreen (variety with three leaf colors)



15 Leaf blade: color 1	GreenN137A
16 Leaf blade: distribution of color 1	6 throughout
17 Leaf blade: pattern of color 1: blotches	1 absent
18 Leaf blade: pattern of color 1: size of blotches	not applicable
19 Leaf blade: pattern of color 1: central bar	1 absent
20 Leaf blade: pattern of color 1: stripes	1 absent
21 Leaf blade: pattern of color 1: marginal zone	1 absent
22 Leaf blade: pattern of color 1: solid or nearly solid	9 present
23 Leaf blade: total area of color 1	7 large
24 Leaf blade: color 2	Yellow Green 151B
25 Leaf blade: distribution of color 2	6 throughout
26 Leaf blade: pattern of color 2: blotches	9 present
27 Leaf blade: pattern of color 2: size of blotches	1 small
28 Leaf blade: pattern of color 2: central bar	1 absent
29 Leaf blade: pattern of color 2: stripes	1 absent
30 Leaf blade: pattern of color 2: marginal zone	1 absent
31 Leaf blade: pattern of color 2: solid or nearly solid	1 absent
32 Leaf blade: total area of color 2	1 very small
33 Leaf blade: color 3	White NN155B
34 Leaf blade: distribution of color 3	1 along midrib
35 Leaf blade: pattern of color 3: blotches	1 absent
36 Leaf blade: pattern of color 3: size of blotches	not applicable
37 Leaf blade: pattern of color 3: central bar	9 present
38 Leaf blade: pattern of color 3: stripes	1 absent
39 Leaf blade: pattern of color 3: marginal zone	1 absent
40 Leaf blade: pattern of color 3: solid or nearly solid	1 absent
41 Leaf blade: total area of color 3	1 very small
42 Leaf blade: color 4	not applicable
43 Leaf blade: distribution of color 4	not applicable
44 Leaf blade: pattern of color 4: blotches	not applicable
45 Leaf blade: pattern of color 4: size of blotches	not applicable
46 Leaf blade: pattern of color 4: central bar	not applicable
47 Leaf blade: pattern of color 4: striped	not applicable
48 Leaf blade: pattern of color 4: marginal zone	not applicable
49 Leaf blade: pattern of color 4: solid or nearly solid	not applicable
50 Leaf blade: total area of color 4	not applicable

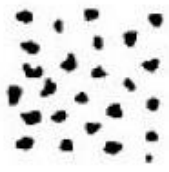
(k) Example-Three Variety with two colors on upper side of leaf

Example Three – Valentine (variety with two leaf colors)



15 Leaf blade: color 1	Red Purple 67C
16 Leaf blade: distribution of color 1	6 throughout
17 Leaf blade: pattern of color 1: blotches	1 absent
18 Leaf blade: pattern of color 1: size of blotches	not applicable
19 Leaf blade: pattern of color 1: central bar	1 absent
20 Leaf blade: pattern of color 1: stripes	1 absent
21 Leaf blade: pattern of color 1: marginal zone	1 absent
22 Leaf blade: pattern of color 1: solid or nearly solid	9 present
23 Leaf blade: total area of color 1	7 large
24 Leaf blade: color 2	Green 146A
25 Leaf blade: distribution of color 2	14 along midrib, marginal zone and along veins
26 Leaf blade: pattern of color 2: blotches	9 present
27 Leaf blade: pattern of color 2: size of blotches	1 small
28 Leaf blade: pattern of color 2: central bar	9 present
29 Leaf blade: pattern of color 2: stripes	1 absent
30 Leaf blade: pattern of color 2: marginal zone	9 present
31 Leaf blade: pattern of color 2: solid or nearly solid	1 absent
32 Leaf blade: total area of color 2	2 very small to small
33 Leaf blade: color 3	not applicable
34 Leaf blade: distribution of color 3	not applicable
35 Leaf blade: pattern of color 3: blotches	not applicable
36 Leaf blade: pattern of color 3: size of blotches	not applicable
37 Leaf blade: pattern of color 3: central bar	not applicable
38 Leaf blade: pattern of color 3: stripes	not applicable
39 Leaf blade: pattern of color 3: marginal zone	not applicable
40 Leaf blade: pattern of color 3: solid or nearly solid	not applicable
41 Leaf blade: total area of color 3	not applicable
42 Leaf blade: color 4	not applicable
43 Leaf blade: distribution of color 4	not applicable
44 Leaf blade: pattern of color 4: blotches	not applicable
45 Leaf blade: pattern of color 4: size of blotches	not applicable
46 Leaf blade: pattern of color 4: central bar	not applicable
47 Leaf blade: pattern of color 4: striped	not applicable
48 Leaf blade: pattern of color 4: marginal zone	not applicable
49 Leaf blade: pattern of color 4: solid or nearly solid	not applicable
50 Leaf blade: total area of color 4	not applicable

(l) Leaf blade: pattern of colors: size of blotches should be observed as followings.



1  
small



2  
medium



3  
large



indicated by green  
blotches



indicated by grey  
green blotches



indicated by dark  
green blotches

(m) Leaf blade: pattern of central bar should be observed as followings.



central bar



indicated by white bar

(n) Leaf blade: pattern of stripes should be observed as followings.



striped



indicated by grey green stripes



(o) Leaf blade: pattern of marginal zone should be observed as followings.



marginal zone



indicated by red margin

(p) Leaf blade: pattern of solid or nearly solid should be observed as followings.



solid or nearly solid



indicated by whole part

(q) Example-Four Variety with two colors on lower side of leaf

Example Four – Pride of Sumatra (variety with two leaf colors on lower side)



51 Leaf blade: color 1 on lower side	Red Purple 64C
52 Leaf blade: distribution of color 1 on lower side	13 along midrib; along veins and between veins
53 Leaf blade: pattern of color 1 on lower side: blotches	1 absent
54 Leaf blade: pattern of color 1 on lower side: size of blotches	not applicable
55 Leaf blade: pattern of color 1 on lower side: central bar	9 present
56 Leaf blade: pattern of color 1 on lower side: striped	9 present
57 Leaf blade: pattern of color 1 on lower side: marginal zone	1 absent
58 Leaf blade: pattern of color 1 on lower side: solid or nearly solid	1 absent
59 Leaf blade: total area of color 1 on lower side	4 small to medium
60 Leaf blade: color 2 on lower side	Greyed Purple N186B
61 Leaf blade: distribution of color 2 on lower side	6 throughout
62 Leaf blade: pattern of color 2 on lower side: blotches	1 absent
63 Leaf blade: pattern of color 2 on lower side: size of blotched	not applicable
64 Leaf blade: pattern of color 2 on lower side: central bar	1 absent
65 Leaf blade: pattern of color 2 on lower side: striped	1 absent
66 Leaf blade: pattern of color 2 on lower side: marginal zone	1 absent
67 Leaf blade: pattern of color2 on lower side: solid or nearly solid	9 present
68 Leaf blade: total area of color 2 on lower side	5 medium
69 Leaf blade: color 3 on lower side	not applicable
70 Leaf blade: distribution of color 3 on lower side	not applicable
71 Leaf blade: pattern of color 3 on lower side: blotches	not applicable
72 Leaf blade: pattern of color 3 on lower side: size of blotches	not applicable
73 Leaf blade: pattern of color 3 on lower side: central bar	not applicable
74 Leaf blade: pattern of color 3 on lower side:striped	not applicable
75 Leaf blade: pattern of color 3 on lower side:marginal zone	not applicable
76 Leaf blade: pattern of color 3 on lower side:solid or nearly solid	not applicable
77 Leaf blade: total area of color 3 on lower side	not applicable

8.2 Explanations for individual characteristics

Ad. 2: Plant: number of basal shoots



1

absent or very few



3

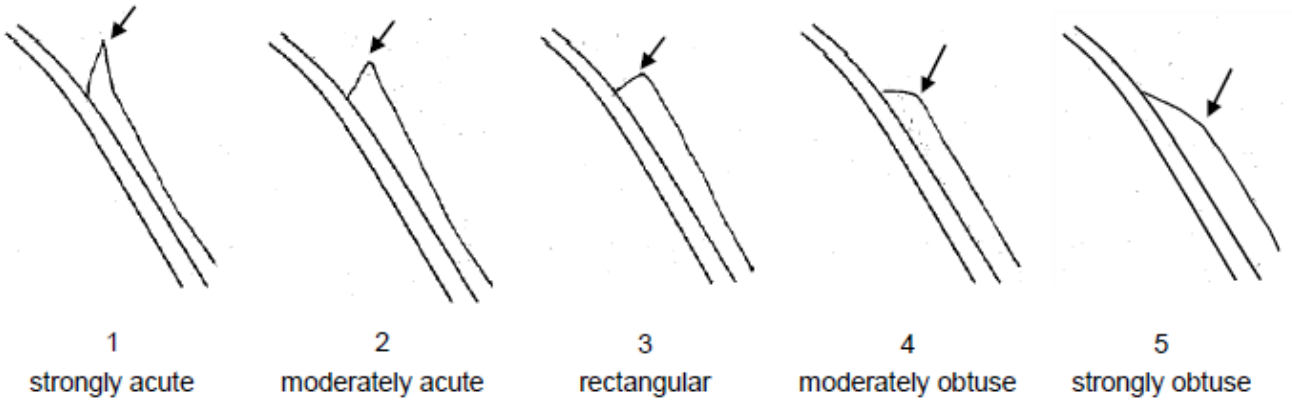
medium



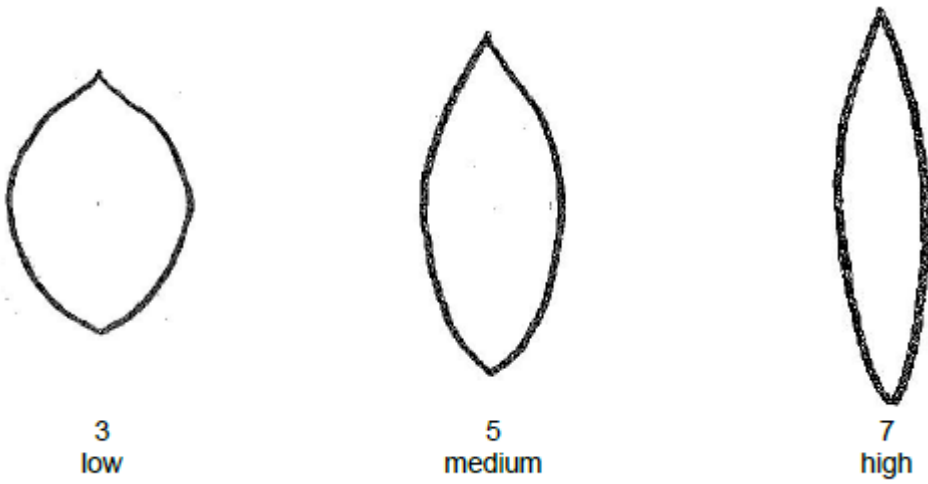
4

many

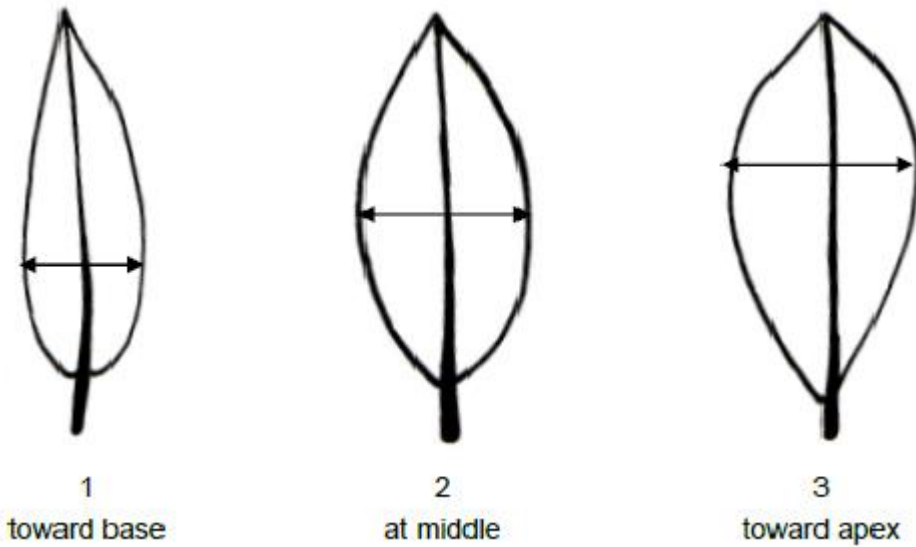
Ad. 7: Leaf sheath: angle of apical part



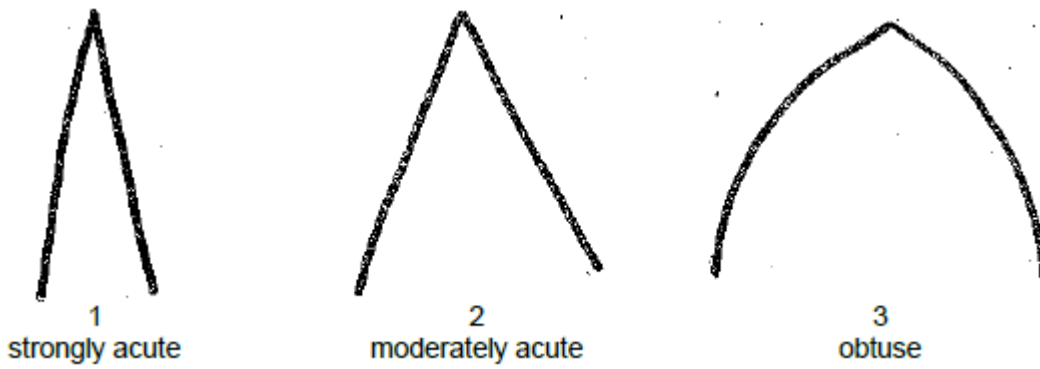
Ad. 11: Leaf blade: ratio length/width



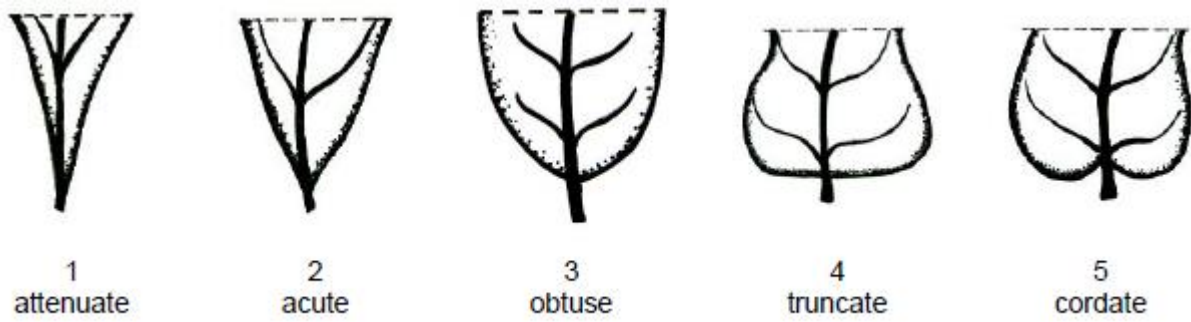
Ad. 12: Leaf blade: position of broadest part



Ad. 13: Leaf blade: shape of apex

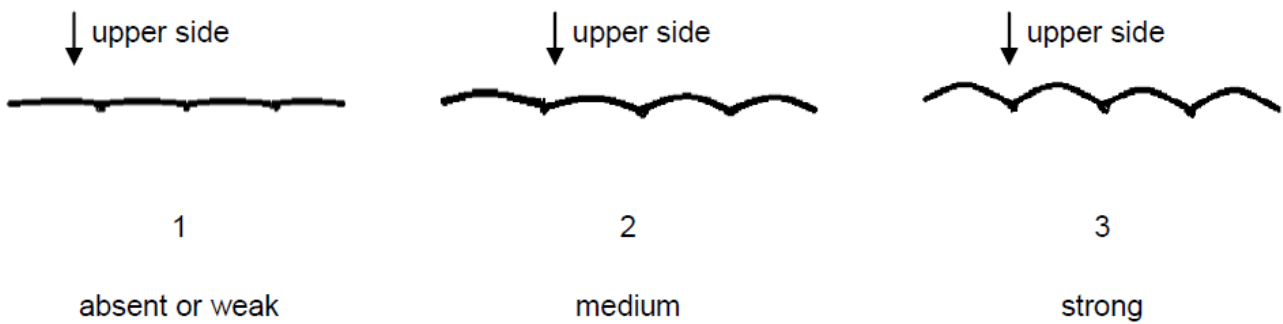


Ad. 14: Leaf blade: shape of base

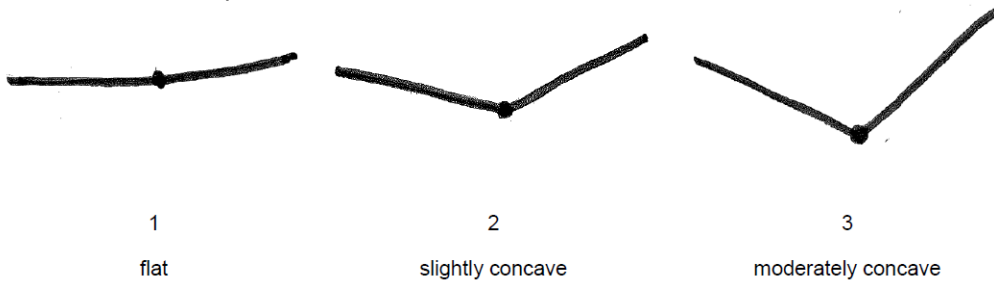


Ad. 79: Leaf blade: blistering

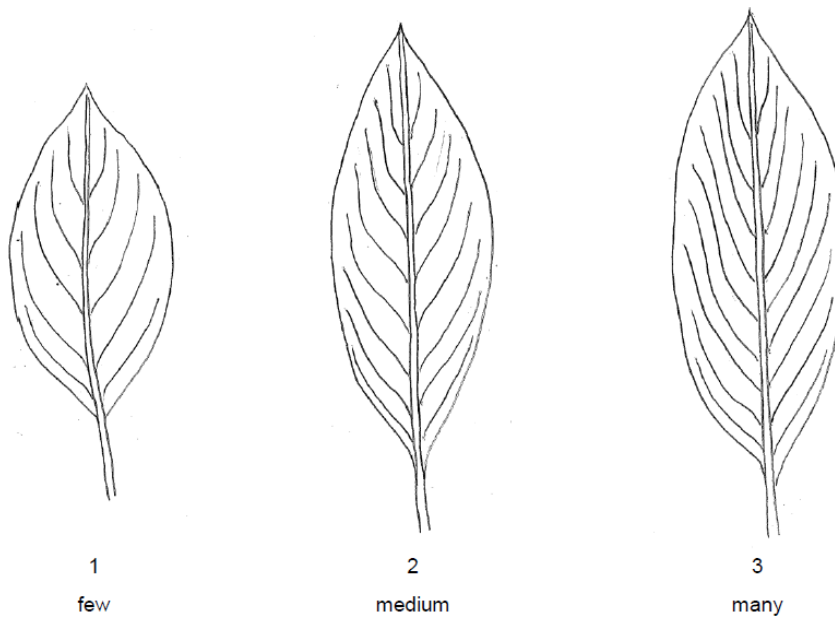
following diagram indicate the longitudinal section of leaf blade



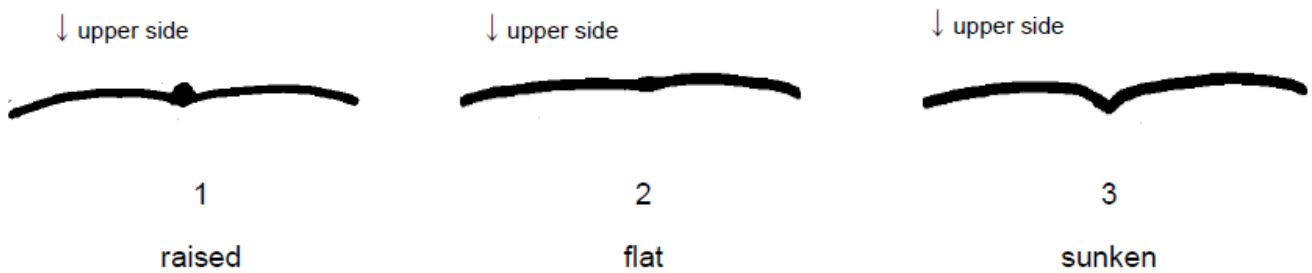
Ad. 81: Leaf blade: profile in cross section



Ad. 82: Leaf blade: number of veins on lower side



Ad. 83: Leaf blade: midrib: profile



9. Literature

Nicolson, D.H., 1969: A revision of Genus Aglaonema(Araceae). Smithsonian Institution press. Washington, USA.63 pp.

Sinchaisri, N., et al., 2006: Catalog of Aglaonema in Thailand. Mitkaset Marketting and Advertisement company, Bangkok, Thailand TH,180 pp.

Thanabud P., 2000: Aglaonema, Amarin Printing and Publishing Public Co.,Ltd. Thailand, 239pp.

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			
1.1.1	Botanical Name	Aglaonema Schott	
1.1.2	Common Name	Chinese Evergreen	
1.1.3	Species		

2. Applicant	
Name	<input type="text"/>
Address	<input type="text"/>
Telephone No.	<input type="text"/>
Fax No.	<input type="text"/>
E-mail address	<input type="text"/>
Breeder (if different from applicant)	<input type="text"/>

3. Proposed denomination and breeder's reference	
Proposed denomination (if available)	<input type="text"/>
Breeder's reference	<input type="text"/>

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)

.....



4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings [ ]
- (b) in vitro propagation [ ]
- (c) [ ]
- (d) Other (state method) [ ]

.....  
:  
:  
.....

4.2.2 [ ]

- 4.2.3 Other [ ]  
(please provide details)

.....  
:  
:  
.....

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).

<b>Characteristics</b>	<b>Example Varieties</b>	<b>Note</b>
<b>5.1 (9) Leaf blade: length</b>		
very short		1[ ]
very short to short		2[ ]
short	Black Beauty	3[ ]
short to medium		4[ ]
medium	Tiara	5[ ]
medium to long		6[ ]
long	Thep Ranjuan	7[ ]
long to very long		8[ ]
very long		9[ ]
<b>5.2 (10) Leaf blade: width</b>		
very narrow		1[ ]
very narrow to narrow		2[ ]
narrow	Thep Ranjuan	3[ ]
narrow to medium		4[ ]
medium	Katharngen	5[ ]
medium to broad		6[ ]
broad	World Heritage	7[ ]
broad to very broad		8[ ]
very broad		9[ ]

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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Leaf blade: ratio length/width</i>	<i>low</i>	<i>medium</i>
Comments:			

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 Other information

(c) Leaf blade: color covering the largest surface area on upper side, with the following color groups:

Gr.1: white [...]  
Gr.2: green [...]  
Gr.3: grey green [...]  
Gr.4: yellow [...]  
Gr.5: red [...]  
Gr.6: red purple [...]

(d) Leaf blade: color covering the second largest surface area on upper side, with the following color groups:

Gr.1: white [...]  
Gr.2: green [...]  
Gr.3: grey green [...]  
Gr.4: yellow [...]  
Gr.5: red [...]  
Gr.6: red purple [...]

7.4 A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.

The key points to consider when taking a photograph of the candidate variety are:

- Indication of the date and geographic location
- Correct labeling (breeder's reference)
- Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)

Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (<http://www.upov.int/tgp/en/>).

[The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]

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.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:												
<p>9. Information on plant material to be examined or submitted for examination</p> <p>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.</p> <p>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:</p> <table data-bbox="239 560 1356 761"><tr><td>(a) Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(b) Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(c) Tissue culture</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(d) Other factors</td><td>Yes [ ]</td><td>No [ ]</td></tr></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p>			(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 [ ]
(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 [ ]												
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <table data-bbox="223 1052 1404 1254"><tr><td data-bbox="223 1052 494 1131">Applicant's name</td><td colspan="2" data-bbox="494 1052 1404 1131"></td></tr><tr><td data-bbox="223 1131 494 1254">Signature</td><td data-bbox="494 1131 981 1254"></td><td data-bbox="981 1131 1404 1254">Date</td></tr></table>			Applicant's name			Signature		Date						
Applicant's name														
Signature		Date												

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