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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
 GENEVA

DRAFT

MOKARA

UPOV Code: MOKAR

Mokara

*

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Singapore

*to be considered by the Technical Committee at its forty-fifth session,
 to be held in Geneva from March 30 to April 1, 2009*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
Mokara Please note the below combinations for genus <i>Mokara</i> <i>Arachnis x Ascocentrum x Vanda;</i> <i>Ascocenda (Ascocentrum x Vanda) x Arachnis;</i> <i>Aranda (Arachnis x Vanda) x Ascocentrum;</i> <i>Ascorachnis (Ascocentrum x Arachnis) x Vanda;</i> <i>Ascocenda x Aranda; Ascocenda x Ascorachnis;</i> <i>Aranda x Ascorachnis</i> Selfing or sibing of <i>Mokara</i> <i>Mokara x Arachnis; Mokara x Ascocentrum;</i> <i>Mokara x Vanda; Mokara x Ascocenda;</i> <i>Mokara x Aranda; Mokara x Ascorachnis</i>	Mokara	Mokara	Mokara	Mokara

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 artificial hybrid genus *Mokara*, of the family *Orchidaceae*. The genus *Mokara* is a manmade genus that consists of 3 natural genus combinations of (*Arachnis* x *Ascocentrum* x *Vanda*) in the parental background. *Mokara* can also have the combination make-up of following genera:

Ascocenda (*Ascocentrum* x *Vanda*) x *Arachnis*
Aranda (*Arachnis* x *Vanda*) x *Ascocentrum*
Ascorachnis (*Ascocentrum* x *Arachnis*) x *Vanda*
Ascocenda x *Aranda*
Ascocenda x *Ascorachnis*
Aranda x *Ascorachnis*
Mokara x *Arachnis*
Mokara x *Ascocentrum*
Mokara x *Vanda*
Mokara x *Ascocenda*
Mokara x *Aranda*
Mokara x *Ascorachnis*

Progeny resulting in the selfing or sibing of *Mokara* also applies to this test guideline. Selfings refers to a population resulting from the self pollination of the *Mokara* flowers of the same plant, while Siblings refers to a population resulting from the cross pollination of 2 different *Mokara* flowers of different or the same varieties.

GREX INFORMATION: For example, in the case of *Mokara Chark Kuan ‘Orange’*, the generic name is *Mokara*, the grex epithet is Chark Kuan, and the cultivar epithet is ‘Orange’. The grex epithet can be the name of a person; many orchids are named after the breeder, or other prominent people. Such a cultivar is the individual plant and all its vegetatively propagated progeny that are identical to it.

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 young plants that have produced the first inflorescence, but not flowered yet.

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 The optimum stage of development for the assessment of each characteristic is indicated by a number in the second column of the Table of Characteristics. The stages of development denoted by each number are described at the end of Chapter 8.

3.3.3 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety descriptions.

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 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 plants.

3.6 *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.

4.2 *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% with 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 tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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: width (characteristic 1)
- (b) Inflorescence: number of flowers (characteristic 9)
- (c) Flower: length (characteristic 13)
- (d) Flower: width (characteristic 14)
- (e) Dorsal sepal: base color (characteristic 21)
- (f) Lateral sepal: base color (characteristic 39)
- (g) Petal: base color (characteristic 57)
- (h) Lip: apical lobe: base color (characteristic 74)
- (i) Lip: color of throat (characteristic 105)

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

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*

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.

6.3 *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

(a)-(i) 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 caracteresticas

English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	Plant: width	Plante : largeur	Pflanze: Breite	Planta: anchura	
QN	narrow	étroite	schmal	estrecha	Bangkok Gold 3
	medium	moyenne	mittel	media	Chark Kuan 'Pink' 5
	broad	large	breit	ancha	Dear Heart 7
2. (+)	Leaf: attitude	Feuille : port	Blatt: Haltung	Hoja: porte	
QN (a)	semi-erect	demi-dressé	halbaufrecht	semierecto	Sunkist 1
	horizontal	horizontal	waagerecht	horizontal	Chark Kuan 'Pink' 2
	semi-pendulous	demi-retrombant	halbhängend	semicolgante	Dear Heart 3
3. (*)	Leaf: length	Feuille : longueur	Blatt: Länge	Hoja: longitud	
QN (a)	short	courte	kurz	corta	Bangkok Gold 3
	medium	moyenne	mittel	media	Khaw Phaik Suan 5
	long	longue	lang	larga	Dear Heart 7
4. (*) (+)	Leaf: width	Feuille : largeur	Blatt: Breite	Hoja: anchura	
QN (a)	narrow	étroite	schmal	estrecha	Bangkok Gold 3
	medium	moyenne	mittel	media	Sunkist 5
	broad	large	breit	ancha	Dear Heart 7
5. (+)	VG Leaf: emarginated tip	Feuille : pointe émarginée	Blatt: eingekerbt Spitze	Hoja: punta escotada	
QL (a)	absent	absent	fehlend	ausente	Dinah Shore
	present	présent	vorhanden	presente	Bangkok Gold 9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6. (*) (+)	Leaf: folding	Feuille : pliure	Blatt: Faltung	Hoja: plegado		
QN (a)	weak	faible	gering	débil	Chark Kuan 'Pink'	3
	medium	moyenne	mittel	medio	Five Friendships Gold	5
	strong	forte	stark	fuerte	Chao Praya Gold	7
7.	Leaf: intensity of green color of upper side	Feuille : intensité de la couleur verte de la face supérieure	Blatt: Intensität der Grünfärbung der Oberseite	Hoja: intensidad del color verde del haz		
QN (a)	light	claire	hell	claro	Singa Gold	3
	medium	moyenne	mittel	medio	Mak Chin On	5
	dark	foncée	dunkel	oscuro	Dinah Shore	7
8. (*) (+)	Inflorescence: length of flowering part	Inflorescence : longueur de la partie en floraison	Blütenstand: Länge des blühenden Teils	Inflorescencia: longitud de la parte florecida		
QN (b)	short	courte	kurz	corta	Lions Gold	3
	medium	moyenne	mittel	media	Chao Praya Gold	5
	long	longue	lang	larga	Dear Heart	7
9. (*)	Inflorescence: number of flowers	Inflorescence : nombre de fleurs	Blütenstand: Anzahl Blüten	Inflorescencia: número de flores		
QN (b)	few	faible	gering	bajo	Lions Gold	3
	medium	moyen	mittel	medio	Luenberger Gold, Singa Gold	5
	many	élevé	groß	alto	Dear Heart, Dinah Shore	7
10.	Inflorescence: branching	Inflorescence : ramification	Blütenstand: Verzweigung	Inflorescencia: ramificación		
QL (b)	absent	absente	fehlend	ausente	Five Friendships Gold	1
	present	présente	vorhanden	presente	Dear Heart	9

					Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
English	français	deutsch	español			
11. (*) (+)	Peduncle: length	Pédoncule : longueur	Blütenstandsstiell: Länge	Pedúnculo: longitud		
QN	(b) short	court	kurz	corto	Margaret Thatcher	3
	medium	moyen	mittel	medio	Khaw Phaik Suan	5
	long	long	lang	largo	Dear Heart	7
12. (*)	Pedicel: length	Pédicelle : longueur	Blütenstiell: Länge	Pedicelo: longitud		
QN	(b) short	court	kurz	corto	Margaret Thatcher	1
	(c) medium	moyen	mittel	medio	Bangkok Gold	2
	(e) long	long	lang	largo	Mak Chin On	3
13. (*) (+)	Flower: length	Fleur : longueur	Blüte: Länge	Flor: longitud		
QN	(b) short	courte	kurz	corta	Margaret Thatcher	3
	(c) medium	moyenne	mittel	media	Bangkok Gold	5
	long	longue	lang	larga	Mak Chin On	7
14. (*) (+)	Flower: width	Fleur : largeur	Blüte: Breite	Flor: anchura		
QN	(b) narrow	étroite	schmal	estrecha	Margaret Thatcher	3
	(c) medium	moyenne	mittel	media	Khaw Phaik Suan	5
	broad	large	breit	ancha	Chark Kuan 'Pink'	7
15.	Flower: fragrance	Fleur : parfum	Blüte: Duft	Flor: fragancia		
QL	(b) absent	absent	fehlend	ausente	Singa Gold	1
	present	présent	vorhanden	presente	Lions Gold	9

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
16.	Dorsal sepal: curvature in longitudinal axis	Sépale dorsal : courbure de l'axe longitudinal	Dorsales Kelchblatt: Biegung in der Längsachse	Sépalo dorsal: curvatura en el eje longitudinal			
QN	(b) strongly concave	fortement concave	stark konkav	fuertemente cóncavo	Willie How	1	
	(e) weakly concave	faiblement concave	schwach konkav	débilmente cóncavo	Sunkist	3	
	straight	droit	gerade	recto	Singa Gold	5	
	weakly convex	faiblement convexe	schwach konvex	débilmente convexo	Red	7	
	strongly convex	fortement convexe	stark konvex	fuertemente convexo		9	
17.	Dorsal sepal: curvature in cross section	Sépale dorsal : courbure en section transversale	Dorsales Kelchblatt: Biegung im Querschnitt	Sépalo dorsal: curvatura en sección transversal			
QN	(b) strongly concave	fortement concave	stark konkav	fuertemente cóncavo		1	
	(f) weakly concave	faiblement concave	schwach konkav	débilmente cóncavo		3	
	straight	droit	gerade	recto	Chao Praya Gold	5	
	weakly convex	faiblement convexe	schwach konvex	débilmente convexo	Red	7	
	strongly convex	fortement convexe	stark konvex	fuertemente convexo	Khaw Phaik Suan	9	
18. (*)	Dorsal sepal: length	Sépale dorsal : longueur	Dorsales Kelchblatt: Länge	Sépalo dorsal: longitud			
QN	(b) short	court	kurz	corto	Margaret Thatcher	1	
	(c) medium	moyen	mittel	medio	Khaw Phaik Suan	2	
	(g) long	long	lang	largo	Chark Kuan 'Pink'	3	
19. (*)	Dorsal sepal: width	Sépale dorsal : largeur	Dorsales Kelchblatt: Breite	Sépalo dorsal: anchura			
QN	(b) narrow	étroit	schmal	estrecho	Margaret Thatcher	1	
	(c) medium	moyen	mittel	medio	Khaw Phaik Suan	2	
	(g) broad	large	breit	ancho	Chark Kuan 'Pink'	3	

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
20. (*)	Dorsal sepal: shape	Sépale dorsal : forme	Dorsales Kelchblatt: Form	Sépalo dorsal: forma		
PQ	(b) narrow obovate	obovale étroit	schmal verkehrt eiförmig	obovado estrecho	Luenberger Gold	1
	(h) medium obovate	obovale moyen	mittel verkehrt eiförmig	obovado medio	Dinah Shore	2
	broad obovate	obovale large	breit verkehrt eiförmig	obovado ancho	Five Friendships Gold	3
	spatulate	spatulé	spatelförmig	espatulado	Red	4
21. (*)	Dorsal sepal: base color	Sépale dorsal : couleur de base	Dorsales Kelchblatt: Grundfarbe	Sépalo dorsal: color de la base		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
22.	Dorsal sepal: shading	Sépale dorsal : ombrage	Dorsales Kelchblatt: Schattierung	Sépalo dorsal: sombreado		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente	Lions Gold	9
23.	Dorsal sepal: distribution of shade	Sépale dorsal : distribution de l'ombrage	Dorsales Kelchblatt: Ausdehnung der Schattierung	Sépalo dorsal: distribución del sombreado		
QN	(b) small	petite	klein	pequeño	Singa Gold	1
	(d) medium	moyenne	mittel	medio	Five Friendships Gold	2
	large	grande	groß	grande	Lions Gold	3
24.	Dorsal sepal: color of shade	Sépale dorsal : couleur de l'ombre	Dorsales Kelchblatt: Farbe der Schattierung	Sépalo dorsal: color del sombreado		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
25.	Dorsal sepal: edging	Sépale dorsal : bord	Dorsales Kelchblatt: Rand	Sépalo dorsal: borde		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente		9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
26.	Dorsal sepal: color of edging	Sépale dorsal : couleur du bord	Dorsales Kelchblatt: Farbe des Randes	Sépalo dorsal: color del borde		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
27.	Dorsal sepal: stripes	Sépale dorsal : stries	Dorsales Kelchblatt: Streifen	Sépalo dorsal: franjas		
QL	(b) absent (d) present	absentes présentes	fehlend vorhanden	ausentes presentes	Chao Praya Gold Mak Chin On	1 9
28.	Dorsal sepal: color of stripes	Sépale dorsal : couleur des stries	Dorsales Kelchblatt: Farbe der Streifen	Sépalo dorsal: color de las franjas		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
29.	Dorsal sepal: netting	Sépale dorsal : réticulation	Dorsales Kelchblatt: Netz	Sépalo dorsal: retícula		
QL	(b) absent (d) present	absente présente	fehlend vorhanden	ausente presente	Chao Praya Gold Mak Chin On	1 9
30.	Dorsal sepal: color of netting	Sépale dorsal : couleur de la réticulation	Dorsales Kelchblatt: Farbe des Netzes	Sépalo dorsal: color de retícula		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
31.	Dorsal sepal: spots	Sépale dorsal : taches	Dorsales Kelchblatt: Flecken	Sépalo dorsal: puntos		
QL	(b) absent (d) present	absentes présentes	fehlend vorhanden	ausentes presentes	Chao Praya Gold Five Friendships Gold	1 9
32.	Dorsal sepal: size of spots	Sépale dorsal : taille des taches	Dorsales Kelchblatt: Größe der Flecken	Sépalo dorsal: tamaño de los puntos		
QN	(b) small (d) medium large	petites moyennes grandes	klein mittel groß	pequeños medios grandes	Luenberger Gold Five Friendships Gold Dinah Shore	1 2 3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
33.	Dorsal sepal: color of spots	Sépale dorsal : couleur des taches	Dorsales Kelchblatt: Farbe der Flecken	Sépalo dorsal: tamaño de los puntos		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
34.	Lateral sepal: curvature in longitudinal axis	Sépale latéral : courbure de l'axe longitudinal	Seitliches Kelchblatt: Biegung in der Längsachse	Sépalo lateral: curvatura en el eje longitudinal		
QN	(b) strongly concave (e) weakly concave straight weakly convex strongly convex	fortement concave faiblement concave droit faiblement convexe fortement convexe	stark konkav schwach konkav gerade schwach konvex stark konvex	fuertemente cóncavo débilmente cóncavo recto débilmente convexo fuertemente convexo	Willie How Dear Heart Dinah Shore Dinah Shore Red	1 3 5 7 9
35.	Lateral sepal: curvature in cross section	Sépale latéral : courbure en section transversale	Seitliches Kelchblatt: Biegung im Längsschnitt	Sépalo lateral: curvatura en sección transversal		
QN	(b) strongly concave (f) weakly concave straight weakly convex strongly convex	fortement concave faiblement concave droit faiblement convexe fortement convexe	stark konkav schwach konkav gerade schwach konvex stark konvex	fuertemente cóncavo débilmente cóncavo recto débilmente convexo fuertemente convexo		1 3 5 7 9
36. (*)	Lateral sepal: length	Sépale latéral : longueur	Seitliches Kelchblatt: Länge	Sépalo lateral: longitud		
QN	(c) short (d) medium (g) long	court moyen long	kurz mittel lang	corto medio largo	Margaret Thatcher Mak Chin On Chark Kuan 'Pink'	1 2 3
37. (*) (+)	Lateral sepal: width	Sépale latéral : largeur	Seitliches Kelchblatt: Breite	Sépalo lateral: anchura		
QN	(b) narrow (c) medium (g) broad	étroit moyen large	schmal mittel breit	estrecho medio ancho	Margaret Thatcher Mak Chin On Chark Kuan 'Pink'	1 2 3

					Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
English	français	deutsch	español			
38. (*) (+)	Lateral sepal: shape	Sépale latéral : forme	Seitliches Kelchblatt: Form	Sépalo lateral: forma		
PQ	(b) elliptic	elliptique	elliptisch	elíptico		1
	narrow obovate	obovale étroit	schmal verkehrt eiförmig	obovado estrecho		2
	medium obovate	obovale moyen	mittel verkehrt eiförmig	obovado medio	Singa Gold	3
	broad obovate	obovale large	breit verkehrt eiförmig	obovado ancho	Five Friendships Gold	4
39. (*)	Lateral sepal: base color	Sépale latéral : couleur de base	Seitliches Kelchblatt: Grundfarbe	Sépalo lateral: color de la base		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
40.	Lateral sepal: shading	Sépale latéral : ombrage	Seitliches Kelchblatt: Schattierung	Sépalo lateral: sombreado		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente	Lions Gold	9
41.	Lateral sepal: distribution of shade	Sépale latéral : distribution de l'ombre	Seitliches Kelchblatt: Ausdehnung der Schattierung	Sépalo lateral: distribución del sombreado		
QN	(b) small	petite	klein	pequeño	Singa Gold	1
	(d) medium	moyenne	mittel	medio	Lions Gold	2
	large	large	groß	grande	Five Friendships Gold	3
42.	Lateral sepal: color of shade	Sépale latéral : couleur de l'ombre	Seitliches Kelchblatt: Farbe der Schattierung	Sépalo lateral: color del sombreado		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
43.	Lateral sepal: edging Sépale latéral : bord	Sépale latéral : bord	Seitliches Kelchblatt: Rand	Sépalo lateral: borde		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente		9
44.	Lateral sepal: color of edging	Sépale latéral : couleur du bord	Seitliches Kelchblatt: Farbe des Randes	Sépalo lateral: color del borde		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
45.	Lateral sepal: stripes Sépale latéral : stries	Sépale latéral : stries	Seitliches Kelchblatt: Streifen	Sépalo lateral: franjas		
QL	(b) absent	absentes	fehlend	ausentes	Chao Praya Gold	1
	(d) present	présentes	vorhanden	presentes		9
46.	Lateral sepal: color of stripes	Sépale latéral : couleur des stries	Seitliches Kelchblatt: Farbe der Streifen	Sépalo lateral: color de las franjas		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
47.	Lateral sepal: netting	Sépale latéral : réticulation	Seitliches Kelchblatt: Netz	Sépalo lateral: retícula		
QL	(b) absent	absente	fehlend	ausente	Chao Praya Gold	1
	(d) present	présente	vorhanden	presente	Mak Chin On	9
48.	Lateral sepal: color of netting	Sépale latéral : couleur de la réticulation	Seitliches Kelchblatt: Farbe des Netzes	Sépalo lateral: color de retícula		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
49.	Lateral sepal: spots	Sépale latéral : taches	Seitliches Kelchblatt: Flecken	Sépalo lateral: puntos		
QL	(b) absent	absentes	fehlend	ausentes	Chao Praya Gold	1
	(d) present	présentes	vorhanden	presentes	Five Friendships Gold	9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
50.	Lateral sepal: size of spots	Sépale latéral : taille des taches	Seitliches Kelchblatt: Größe der Flecken	Sépalo lateral: tamaño de los puntos		
QN	(b) small	petites	klein	pequeños	Luenberger Gold	1
	(d) medium	moyennes	mittel	medios	Five Friendships Gold	2
	large	grandes	groß	grandes	Dinah Shore	3
51.	Lateral sepal: color of spots	Sépale latéral : couleur des taches	Seitliches Kelchblatt: Farbe der Flecken	Sépalo lateral: color de los puntos		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
52.	Petal: curvature in longitudinal axis	Pétale : courbure de l'axe longitudinal	Blütenblatt: Biegung in der Längsachse	Pétalo: curvatura en el eje longitudinal		
QN	(b) strongly concave	fortement concave	stark konkav	fuertemente cóncavo		1
	(e) weakly concave	faiblement concave	schwach konkav	débilmente cóncavo	Sunkist	3
	straight	droit	gerade	recto	Singa Gold	5
	weakly convex	faiblement convexe	schwach konvex	débilmente convexo	Dinah Shore	7
	strongly convex	fortement convexe	stark konvex	fuertemente convexo		9
53.	Petal: curvature in cross section	Pétale : courbure en section transversale	Blütenblatt: Biegung im Querschnitt	Pétalo: curvatura en sección transversal		
QN	(b) strongly concave	fortement concave	stark konkav	fuertemente cóncavo		1
	(f) weakly concave	faiblement concave	schwach konkav	débilmente cóncavo		3
	straight	droit	gerade	recto	Singa Gold	5
	weakly convex	faiblement convexe	schwach konvex	débilmente convexo	Dinah Shore	7
	strongly convex	fortement convexe	stark konvex	fuertemente convexo		9
54. (*) (+)	Petal: length	Pétale : longueur	Blütenblatt: Länge	Pétalo: longitud		
QN	(b) short	court	kurz	corto	Margaret Thatcher	3
	(d) medium	moyen	mittel	medio	Luenberger Gold	5
	(g) long	long	lang	largo	Chark Kuan 'Pink'	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
55. (*) (+)	Petal: width	Pétale : largeur	Blütenblatt: Breite	Pétalo: anchura		
QN	(g) narrow	étroit	schmal	estrecho	Margaret Thatcher	1
	medium	moyen	mittel	medio	Luenberger Gold	2
	broad	large	breit	ancho	Chark Kuan 'Pink'	3
56. (*)	Petal: shape	Pétale : forme	Blütenblatt: Form	Pétalo: forma		
PQ	(b) narrow obovate	obovale étroit	schmal verkehrt eiförmig	obovado estrecho		1
	(h) medium obovate	obovale moyen	mittel verkehrt eiförmig	obovado medio	Chark Kuan 'Pink'	2
	broad obovate	obovale large	breit verkehrt eiförmig	obovado ancho	Five Friendships Gold	3
	spatulate	spatulé	spatelförmig	espatulado	Lions Gold	4
57. (*)	Petal: base color	Pétale : couleur de base	Blütenblatt: Grundfarbe	Pétalo: color de la base		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
58.	Petal: shading	Pétale : ombrage	Blütenblatt: Schattierung	Pétalo: sombreado		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente	Lions Gold	9
59.	Petal: distribution of shade	Pétale : distribution de l'ombre	Blütenblatt: Ausdehnung der Schattierung	Pétalo: distribución del sombreado		
QN	(b) small	petite	klein	pequeño	Singa Gold	1
	(d) medium	moyenne	mittel	medio	Sunkist	2
	large	grande	groß	grande	Lions Gold	3
60.	Petal: color of shade	Pétale : couleur de l'ombre	Blütenblatt: Farbe der Schattierung	Pétalo: color del sombreado		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		

					Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
	English	français	deutsch	español		
61.	Petal: edging	Pétale : bord	Blütenblatt: Rand	Pétalo: borde		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente		9
62.	Petal: color of edging	Pétale : couleur du bord	Blütenblatt: Farbe des Randes	Pétalo: color del borde		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
63.	Petal: stripes	Pétale : stries	Blütenblatt: Streifen	Pétalo: franjas		
QL	(b) absent	absentes	fehlend	ausentes	Chao Praya Gold	1
	(d) present	présentes	vorhanden	presentes		9
64.	Petal: color of stripes	Pétale : couleur des stries	Blütenblatt: Farbe der Streifen	Pétalo: color de las franjas		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
65.	Petal: netting	Pétale : réticulation	Blütenblatt: Netz	Pétalo: retícula		
QL	(b) absent	absente	fehlend	ausente	Chao Praya Gold	1
	(d) present	présente	vorhanden	presente	Mak Chin On	9
66.	Petal: color of netting	Pétale : couleur de la réticulation	Blütenblatt: Farbe des Netzes	Pétalo: color de retícula		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
67.	Petal: spots	Pétale : taches	Blütenblatt: Flecken	Pétalo: puntos		
QL	(b) absent	absentes	fehlend	ausentes	Chao Praya Gold	1
	(d) present	présentes	vorhanden	presentes	Five Friendships Gold	9
68.	Petal: size of spots	Pétale : taille des taches	Blütenblatt: Größe der Flecken	Pétalo: tamaño de los puntos		
QN	(b) small	petite	klein	pequeños	Luenberger Gold	1
	(d) medium	moyenne	mittel	medios	Five Friendships Gold	2
	large	grande	groß	grandes	Dinah Shore	3

					Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
	English	français	deutsch	español		
69.	Petal: color of spots	Pétale : couleur des taches	Blütenblatt: Farbe der Flecken	Pétalo: color de los puntos		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarke (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
70. (*) (+)	Lip: length of apical lobe	Labelle : longueur du lobe apical	Lippe: Länge des apikalen Lappens	Labio: longitud del lóbulo apical		
QN	(b) short (c) medium long	court moyen long	kurz mittel lang	corto medio largo	Dinah Shore Khaw Phaik Suan Chark Kuan 'Pink'	1 2 3
71. (*) (+)	Lip: width of apical lobe	Labelle : largeur du lobe apical	Lippe: Breite des apikalen Lappens	Labio: anchura del lóbulo apical		
QN	(b) narrow (c) medium broad	étroite moyenne large	schmal mittel breit	estrecho medio ancho	Singa Gold Chark Kuan 'Pink' Lions Gold	1 2 3
72. (*) (+)	Lip: apical lobe: lobing of apex	Labelle : lobe apical : découpture du sommet	Lippe: apikaler Lappen: Lappung der Spitze	Labio: lóbulo apical: lobulado del ápice		
QL	(b) absent present	absente présente	fehlend vorhanden	ausente presente	Dinah Shore Chark Kuan 'Pink'	1 9
73. (+)	Lip: apical lobe: protrusion on ventral side	Labelle : lobe apical: protrusion sur la face ventrale	Lippe: apikaler Lappen: Hervorstehen an der Bauchseite	Labio: lóbulo apical: protrusión en el lado ventral		
QN	(b) absent or very weak weak strong	absente ou très faible faible forte	fehlend oder sehr gering gering stark	ausente o muy débil débil fuerte	Khaw Phaik Suan Dinah Shore Chark Kuan 'Pink'	1 2 3
74. (*)	Lip: apical lobe: base color	Labelle : lobe apical : couleur de base	Lippe: apikaler Lappen: Grundfarbe	Labio: lóbulo apical: color de la base		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarke (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
75.	Lip: apical lobe: shading	Labelle : lobe apical : ombrage	Lippe: apikaler Lappen: Schattierung	Labio: lóbulo apical: sombreado		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente	Five Friendships Gold	9
76.	Lip: apical lobe: distribution of shade	Labelle : lobe apical : distribution de l'ombre	Lippe: apikaler Lappen: Ausdehnung der Schattierung	Labio: lóbulo apical: distribución del sombreado		
QN	(b) small	petite	klein	pequeño		1
	(d) medium	moyenne	mittel	medio	Five Friendships Gold	2
	large	large	groß	grande	Lions Gold	3
77.	Lip: apical lobe: color of shade	Labelle : lobe apical : couleur de l'ombre	Lippe: apikaler Lappen: Farbe der Schattens	Labio: lóbulo apical: color del sombreado		
PQ	(b) RHS Colour Chart	Code RHS des	RHS-Farbkarte	Carta de colores RHS		
	(d) (indicate reference number)	couleurs (indiquer le numéro de référence)	(Nummer angeben)	(indicar número de referencia)		
78.	Lip: apical lobe: edging	Labelle : lobe apical : bord	Lippe: apikaler Lappen: Rand	Labio: lóbulo apical: borde		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente		9
79.	Lip: apical lobe: color of edging	Labelle : lobe apical : couleur de l'ombre	Lippe: apikaler Lappen: Farbe des Randes	Labio: lóbulo apical: color del borde		
PQ	(b) RHS Colour Chart	Code RHS des	RHS-Farbkarte	Carta de colores RHS		
	(d) (indicate reference number)	couleurs (indiquer le numéro de référence)	(Nummer angeben)	(indicar número de referencia)		
80.	Lip: apical lobe: stripes	Labelle : lobe apical : stries	Lippe: apikaler Lappen: Streifen	Labio: lóbulo apical: franjas		
QL	(b) absent	absentes	fehlend	ausentes	Chao Praya Gold	1
	(d) present	présente	vorhanden	presentes	Lions Gold	9

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
81.	Lip: apical lobe: color of stripes	Labelle : lobe apical : couleur des stripes	Lippe: apikaler Lappen: Farbe der Streifen	Labio: lóbulo apical: color de las franjas			
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
82.	Lip: apical lobe: netting	Labelle : lobe apical : réticulation	Lippe: apikaler Lappen: Netz	Labio: lóbulo apical: retícula			
QL	(b) absent (d) present	absente présente		fehlend vorhanden	ausente presente	Chao Praya Gold	1 9
83.	Lip: apical lobe: color of netting	Labelle : lobe apical : couleur de la réticulation	Lippe: apikaler Lappen: Farbe des Netzes	Labio: lóbulo apical: color de retícula			
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
84.	Lip: apical lobe: spots	Labelle : lobe apical : taches	Lippe: apikaler Lappen: Flecken	Labio: lóbulo apical: puntos			
QL	(b) absent (d) present	absentes présentes		fehlend vorhanden	ausentes presentes	Chao Praya Gold	1 9
85.	Lip: apical lobe: size of spots	Labelle : lobe apical : taille des taches	Lippe: apikaler Lappen: Größe der Flecken	Labio: lóbulo apical: tamaño de los puntos			
QN	(b) small (d) medium large	petites moyennes grandes		klein mittel groß	pequeños medios grandes		1 2 3
86.	Lip: apical lobe: color of spots	Labelle : lobe apical : couleur des taches	Lippe: apikaler Lappen: Farbe der Flecken	Labio: lóbulo apical: tamaño de los puntos			
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
87. (*)	Lip: lateral lobe: base color	Labelle : lobe latéral : couleur de base	Lippe: seitlicher Lappen: Grundfarbe	Labio: lóbulo lateral: color de la base			
PQ	(b) RHS Colour Chart (d) (indicate reference (i) number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
88.	Lip: lateral lobe: shading	Labelle : lobe latéral : ombrage	Lippe: seitlicher Lappen: Schattierung	Labio: lóbulo lateral: sombreado		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente	Five Friendships Gold	9
89.	Lip: lateral lobe: distribution of shade	Labelle : lobe latéral : distribution de l'ombre	Lippe: seitlicher Lappen: Ausdehnung des Schattens	Labio: lóbulo lateral: distribución del sombreado		
QN	(b) small	petite	klein	pequeño		1
	(d) medium	moyenne	mittel	medio	Dinah Shore	2
	large	large	groß	grande	Five Friendships Gold	3
90.	Lip: lateral lobe: color of shade	Labelle : lobe latéral : couleur de l'ombre	Lippe: seitlicher Lappen: Farbe der Schattierung	Labio: lóbulo lateral: color del sombreado		
PQ	(b) RHS Colour Chart	Code RHS des	RHS-Farbkarte	Carta de colores RHS		
	(d) (indicate reference number)	couleurs (indiquer le numéro de référence)	(Nummer angeben)	(indicar número de referencia)		
91.	Lip: lateral lobe: edging	Labelle : lobe latéral : bord	Lippe: seitlicher Lappen: Rand	Labio: lóbulo lateral: borde		
QL	(b) absent	absent	fehlend	ausente	Chao Praya Gold	1
	(d) present	présent	vorhanden	presente		9
92.	Lip: lateral lobe: color of edging	Labelle : lobe latéral : couleur de l'ombre	Lippe: seitlicher Lappen: Farbe des Randes	Labio: lóbulo lateral: color del borde		
PQ	(b) RHS Colour Chart	Code RHS des	RHS-Farbkarte	Carta de colores RHS		
	(d) (indicate reference number)	couleurs (indiquer le numéro de référence)	(Nummer angeben)	(indicar número de referencia)		
93.	Lip: lateral lobe: stripes	Labelle : lobe latéral : stries	Lippe: seitlicher Lappen: Streifen	Labio: lóbulo lateral: franjas		
QL	(b) absent	absentes	fehlend	ausentes	Chao Praya Gold	1
	(d) present	présentes	vorhanden	presentes		9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
94.	Lip: lateral lobe: color of stripes	Labelle : lobe latéral : couleur des stries	Lippe: seitlicher Lappen: Farbe der Streifen	Labio: lóbulo lateral: color de las franjas		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
95.	Lip: lateral lobe: netting	Labelle : lobe latéral : réticulation	Lippe: seitlicher Lappen: Netz	Labio: lóbulo lateral: retícula		
QL	(b) absent (d) present	absente présente	fehlend vorhanden	ausente presente	Chao Praya Gold	1 9
96.	Lip: lateral lobe: color of netting	Labelle : lobe latéral : couleur de la réticulation	Lippe: seitlicher Lappen: Farbe des Netzes	Labio: lóbulo lateral: color de retícula		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
97.	Lip: lateral lobe: spots	Labelle : lobe latéral : taches	Lippe: seitlicher Lappen: Flecken	Labio: lóbulo lateral: puntos		
QL	(b) absent (d) present	absentes présentes	fehlend vorhanden	ausentes presentes	Chao Praya Gold Chark Kuan 'Pink'	1 9
98.	Lip: lateral lobe: size of spots	Labelle : lobe latéral : taille des taches	Lippe: seitlicher Lappen: Größe der Flecken	Labio: lóbulo lateral: tamaño de los puntos		
QN	(b) small (d) medium large	petites moyennes grandes	klein mittel groß	pequeños medios grandes	Luenberger Gold Five Friendshios Gold Chark Kuan 'Pink'	1 2 3
99.	Lip: lateral lobe: color of spots	Labelle : lobe latéral : couleur des taches	Lippe: seitlicher Lappen: Farbe der Flecken	Labio: lóbulo lateral: color de los puntos		
PQ	(b) RHS Colour Chart (d) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		
100. (*) (+)	Column: base color (color on upper side)	Colonne : couleur de base (couleur sur la face supérieure)	Columna: Grundfarbe (Farbe der Oberseite)	Columna: color de la base (color en el lado superior)		
PQ	(b) RHS Colour Chart (i) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indicar número de referencia)		

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
101. (+)	Column: shade on upper side	Colonne : ombre sur la face supérieure	Columna: Schattierung auf der Oberseite	Columna: sombreado en el lado superior			
	(b) absent	absente		fehlend	ausente	Chao Praya Gold	1
QL	present	présente		vorhanden	presente	Sunkist	9
102.	Column: color of shade on upper side	Colonne : couleur de l'ombre sur la face supérieure	Columna: Schattierung auf der Oberseite	Columna: Farbe der Schattierung auf der Oberseite	Columna: sombreado en el lado superior		
PQ	(b) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)		Carta de colores RHS (indicar número de referencia)	
103.	Column: spots on upper side	Colonne : taches sur la face supérieure	Columna: Flecken auf der Oberseite	Columna: puntos en el lado superior			
QL	(b) absent	absentes		fehlend	ausentes	Chao Praya Gold	1
	present	présentes		vorhanden	presentes		9
104.	Column: color of spots on upper side	Colonne : couleur des taches sur la face supérieure	Columna: Flecken auf der Oberseite	Columna: Farbe der Flecken auf der Oberseite	Columna: color de los puntos en el lado superior		
PQ	(b) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)		Carta de colores RHS (indicar número de referencia)	
105.	Lip: color of throat	Labelle : couleur de la gorge	Lippe: Farbe des Schlundes	Labio: color de la garganta			
PQ	(b) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)		RHS-Farbkarte (Nummer angeben)		Carta de colores RHS (indicar número de referencia)	

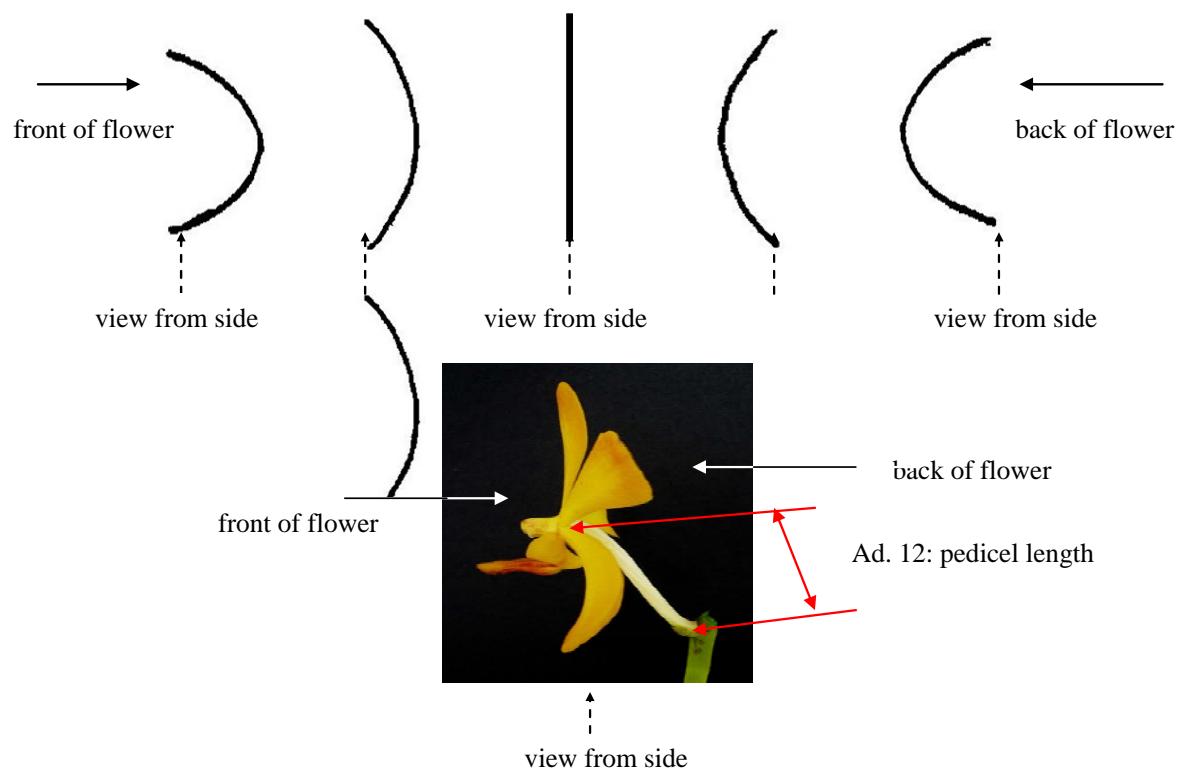
8. Explanations on the Table of Characteristics

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 leaf should be made on the longest leaf of a flowering plant. Width of the leaf is observed by its natural spread (not by opening and flattening of the folded leaf.). Length of the leaf is measured following the natural curvature of the leaf.
- (b) Observations on the inflorescence should be made at the time when 50% of the flowers on the inflorescence have opened. Observations on the flowers should be made on the most recently fully opened flower before the color starts to fade.
- (c) Observations on the length and width of the flower and parts of the flower should be made on the unextended organ.
- (d) Observations on the color of the sepal, the petal and the lip should be made on the front (inner) side.
- (e) Char. 12: Pedicel: length
Char. 16: Dorsal sepal: curvature in longitudinal axis
Char. 34: Lateral sepal: curvature in longitudinal axis
Char. 52: Petal: curvature in longitudinal axis

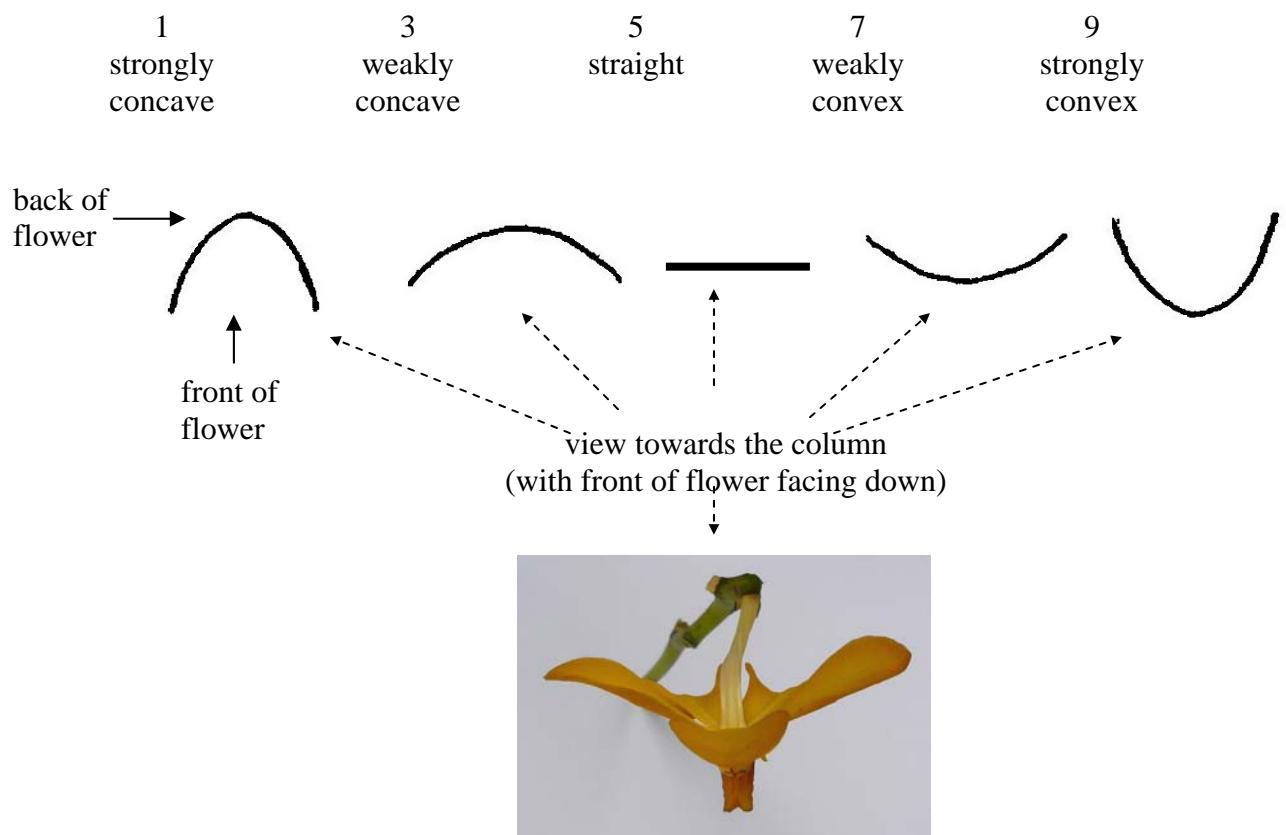
1 strongly concave	3 weakly concave	5 straight	7 weakly convex	9 strongly convex
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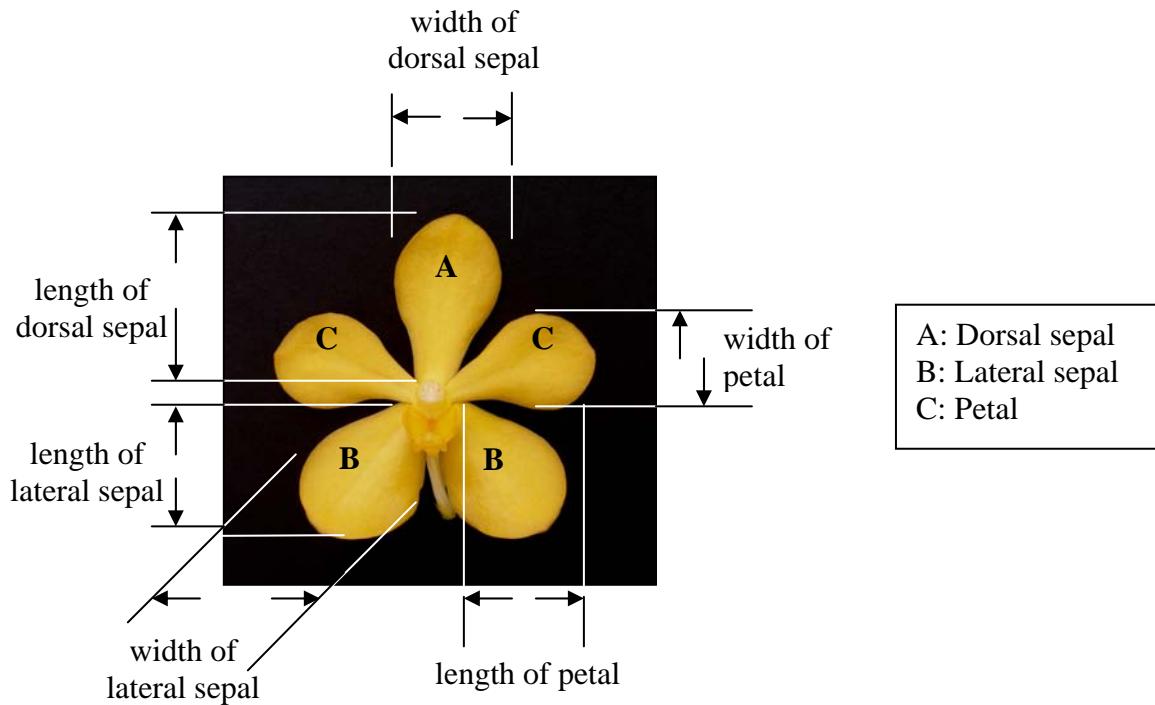
(f) Char. 17: Dorsal sepal: curvature in cross section

Char. 35: Lateral sepal: curvature in cross section

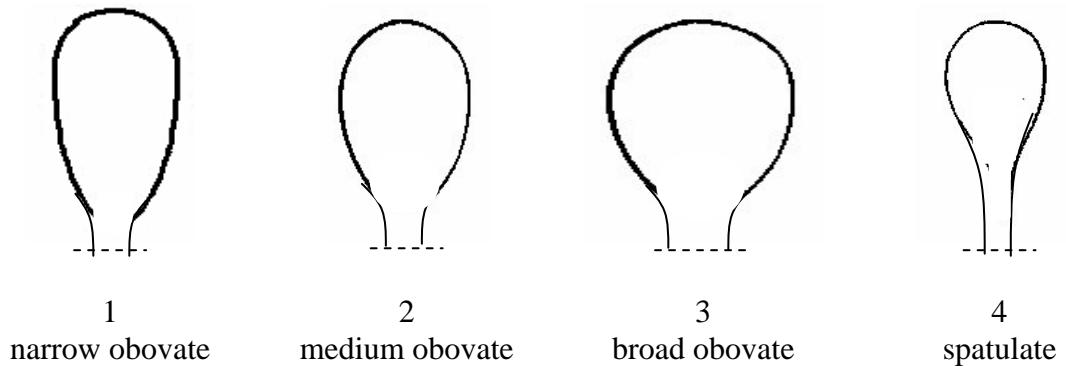
Char. 53: Petal: curvature in cross section



- (g) Char. 18: Dorsal sepal: length
Char. 19: Dorsal sepal: width
Char. 36: Lateral sepal: length
Char. 37: Lateral sepal: width
Char. 54: Petal: length
Char. 55: Petal: width



- (h) Char. 20: Dorsal sepal: shape
Char. 56: Petal: shape



- (i) Char. 21: Dorsal sepal: base color
Char. 39: Lateral sepal: base color
Char. 57: Petal: base color
Char. 74: Lip: apical lobe: base color
Char. 87: Lip: lateral lobe: base color
Char. 100: Column: base color (color on upper side)

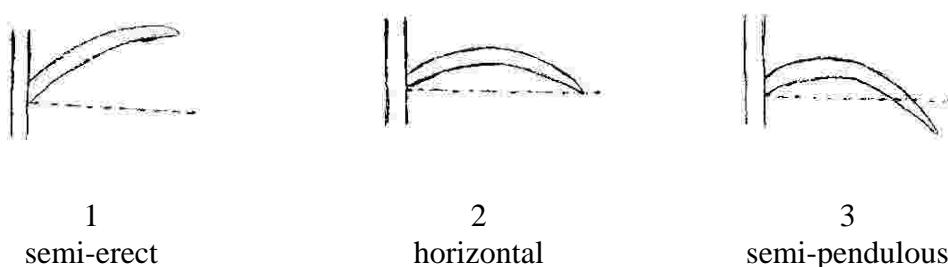
The base color is the color that most closely matches the color of the underside of the organ concerned.

8.2 Explanations for individual characteristics

Ad. 1: Plant: width (natural leaf spread excluding inflorescence)

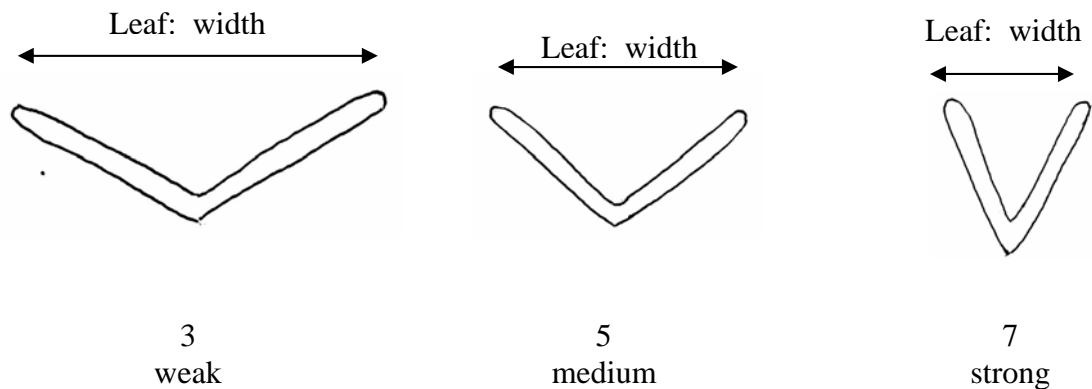


Ad. 2: Leaf: attitude



Ad. 4: Leaf: width

Ad. 6: Leaf: folding



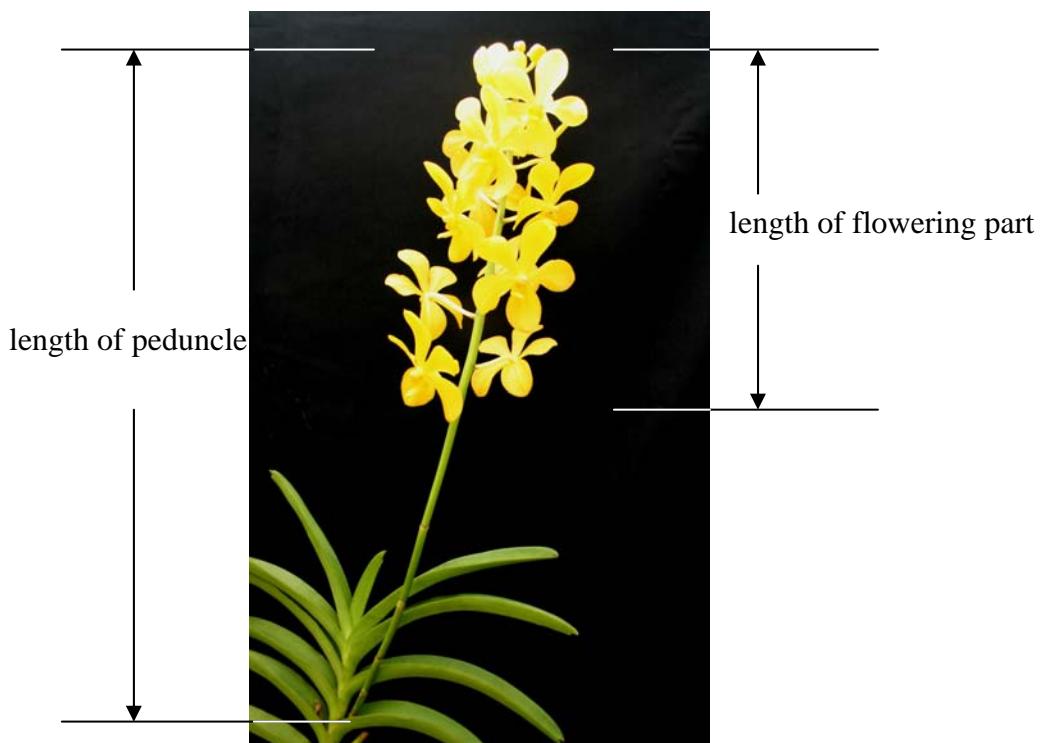
Folding of the leaf is observed at the mid-point of the leaf length.

Ad. 5: Leaf: emarginated tip



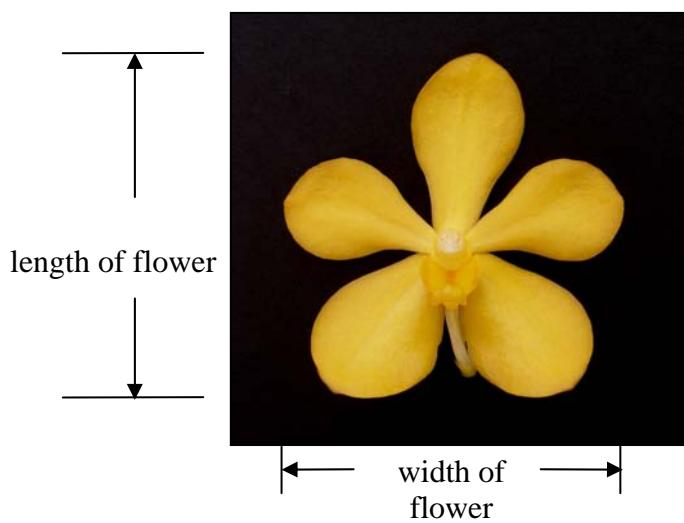
Ad. 8: Inflorescence: length of flowering part

Ad. 11: Peduncle: length

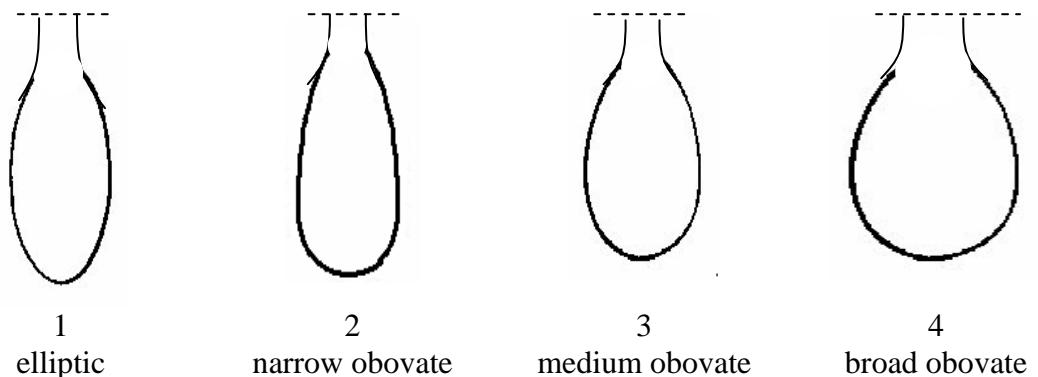


Ad. 13: Flower: length

Ad. 14: Flower: width



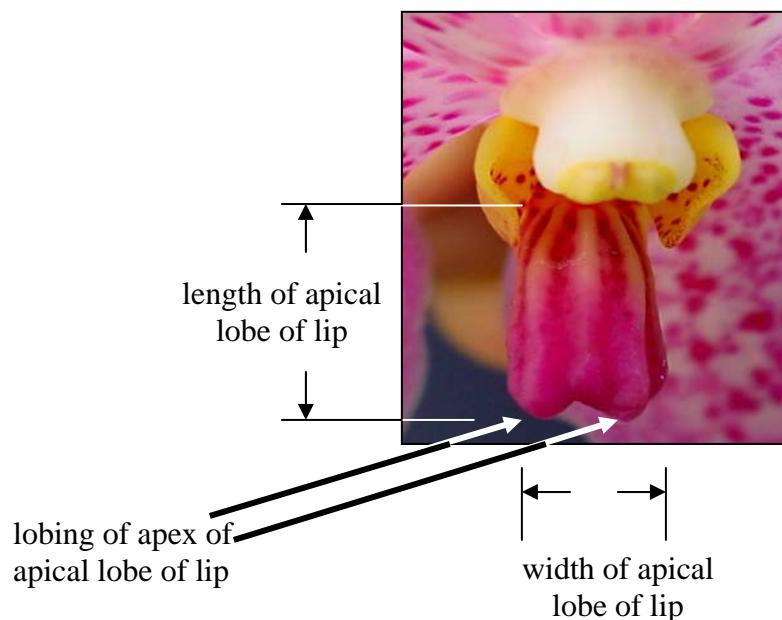
Ad. 38: Lateral sepal: shape



Ad. 70: Lip: length of apical lobe

Ad. 71: Lip: width of apical lobe

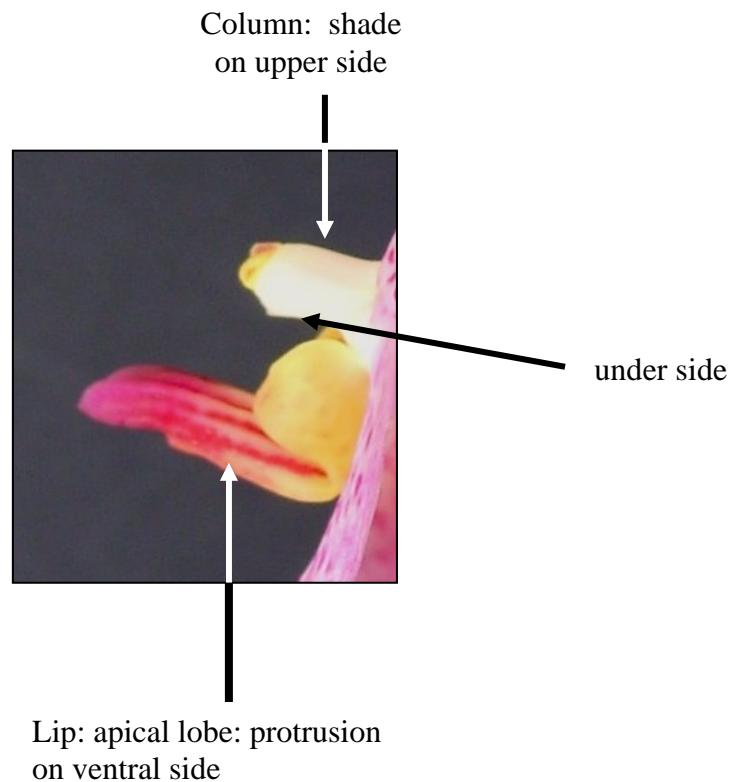
Ad. 72: Lip: apical lobe: lobing of apex



Ad. 73: Lip: apical lobe: protrusion on ventral side

Ad. 100: Column: base color (color on upper side)

Ad. 101: Column: shade on upper side



9. Literature

Yam, T.W., 1986: Orchids of the Singapore Botanic Gardens. Singapore.

Yam, T.W., and Aung, T, 1998: Fascinating Mokaras. Malayan Orchid Review. Vol. 32, pp. 39-44.

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>		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	Mokara	
1.2 Common name	Mokara	
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)
- (b) partially known cross []
(please state known parent variety(ies))
- (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) other (state method) []

4.2.2 Seed []

4.2.3 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:
Characteristics	Example Varieties	Note
5.1 Plant: width (1)		
narrow	Bangkok Gold	3 []
medium	Chark Kuan 'Pink'	5 []
broad	Dear Heart	7 []
5.2 Inflorescence: number of flowers (9)		
few	Lions Gold	3 []
medium	Luenberger Gold, Singa Gold	5 []
many	Dear Heart, Dinah Shore	7 []
5.3 Flower: length (13)		
short	Margaret Thatcher	3 []
medium	Bangkok Gold	5 []
long	Mak Chin On	7 []
5.4 Flower: width (14)		
narrow	Margaret Thatcher	3 []
medium	Khaw Phaik Suan	5 []
broad	Chark Kuan 'Pink'	7 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note
5.5i Dorsal sepal: base color (21)	RHS Colour Chart (indicate reference number)	
green		1 []
white		2 []
yellow	Chao Praya Gold	3 []
orange	Singa Gold	4 []
red	Dinah Shore	5 []
purple	Dear Heart	6 []
5.6i Lateral sepal: base color (39)	RHS Colour Chart (indicate reference number)	
green		1 []
white		2 []
yellow	Chao Praya Gold	3 []
orange	Singa Gold	4 []
red	Dinah Shore	5 []
purple	Dear Heart	6 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note
5.7i Petal: base color (57)		
RHS Colour Chart (indicate reference number)		
5.7ii Petal: base color (57)		
green		1 []
white		2 []
yellow	Chao Praya Gold	3 []
orange	Singa Gold	4 []
red	Dinah Shore	5 []
purple	Dear Heart	6 []
5.8i Lip: apical lobe: base color (74)		
RHS Colour Chart (indicate reference number)		
5.8ii Lip: apical lobe: base color (74)		
green		1 []
white		2 []
yellow	Chao Praya Gold	3 []
orange	Singa Gold	4 []
red	Dinah Shore	5 []
purple	Chark Kuan 'Pink'	6 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note
5.9i Lip: color of throat (105)	RHS Colour Chart (indicate reference number)	
5.9ii Lip: color of throat (105)		
green		1 []
white		2 []
yellow	Colopso Jambo	3 []
orange	Chao Praya Gold	4 []
red	Khaw Phaik Suan	5 []
purple	Dinah Shore	6 []

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>petal: main color</i>	<i>orange</i>	<i>orange red</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 photograph 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".

.....

9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?

Yes []

(please provide details as specified by the Authority)

No []

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

Applicant's name

Signature Date