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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

DRAFT

**PHALAEOPSIS;
DORITANOPSIS**

UPOV Code: PHALE; DORIT

Phalaenopsis Blume;
Phalaenopsis hybrids;
Doritanopsis hybrids

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Netherlands

*to be considered by the
Technical Working Party for Ornamental Plants and Forest Trees
at its forty-first session, to be held in Wageningen, Netherlands, from June 9 to 13, 2008*

Alternative Names: *

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Phalaenopsis</i> Blume, <i>Phalaenopsis</i> hybrids, <i>Doritanopsis</i> hybrids	Phalaenopsis	Phalaenopsis	Phalaenopsis	Phalaenopsis

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 *Phalaenopsis* Blume and *Doritaenopsis* of the family *Orchidaceae* and their hybrids.

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 non-budded plants after flower treatment and which have not previously flowered.

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

10 young 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*

The tests should normally be conducted at one place. ~~If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the variety may be tested at an additional 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.

3.4 *Test Design*

3.4.1 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.4.2 Each test should be designed to result in a total of at least 9 plants.

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

Unless otherwise indicated, all observations ~~on single plants determined by measuring or counting~~ should be made on 5 plants or parts taken from each of 5 plants and any other observations should be made on all plants in the test.

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 minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.~~ 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% 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 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 is 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: length (characteristic 1)
 - (b) Leaf: variegation (characteristic 9)
 - (c) Leaf: spots (characteristic 10)
 - (d) Flower: width in front view (characteristic 22)
 - (e) Petal: main color of upper side (characteristic 64) with the following groups
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: green
 - Gr. 4: orange
 - Gr. 5: red
 - Gr. 6: violet
 - Gr. 7: purple red
 - Gr. 8: purple
 - Gr. 9: brown
 - (f) Petal: shading (characteristic 65)
 - (g) Petal: spots (characteristic 67)
 - (h) Petal: stripes (characteristic 70)
 - (i) Petal: netting (characteristic 73)

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)-(c) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2

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

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	Plant: length	Plante: longueur	Pflanze: Länge	Planta: longitud		
QN	(a) short	courte	niedrig	baja		3
	medium	moyenne	mittel	media		5
	long	longue	lang	larga		7
2.	Leaf: length	Feuille: longueur	Blatt: Länge	Hoja: longitud		
QN	(a) short	courte	niedrig	baja		3
	(b) medium	moyenne	mittel	media		5
	long	longue	lang	larga		7
3.	Leaf: width	Feuille: largeur	Blatt: Breite	Hoja: anchura		
QN	(a) narrow	étroite	schmal	estrecha		3
	(b) medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7
4.	Leaf: ratio length/width	Feuille: rapport longueur/largeur	Blatt: Verhältnis Länge/Breite	Hoja: relación longitud/anchura		
QN	(a) small	petit	klein	pequeña		3
	(b) medium	moyen	mittel	media		5
	large	élevé	groß	grande		7
5.	Leaf: position of broadest part	Feuille: position de la partie la plus large	Blatt: Position der breitesten Stelle	Hoja: posición de la parte más ancha		
QL	(a) lower third	tiers inférieur	im unteren Drittel	en el tercio inferior		1
	(b) middle third	tiers médian	im mittleren Drittel	en el tercio medio		2
	upper third	tiers supérieur	im oberen Drittel	en el tercio superior		3

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.	Leaf: shape of apex	Feuille: forme du sommet	Blatt: Form der Spitze	Hoja: forma del ápice		
QL	(a) acute	aigu	spitz	agudo		1
	(b) obtuse	obtus	stumpf	obtuso		2
	emarginate	émarginé	eingekerbt	emarginado		3
7.	Leaf: symmetry of apex	Feuille: symétrie du sommet	Blatt: Symmetrie der Spitze	Hoja: simetría del ápice		
QL	(a) asymmetric	asymétrique	asymmetrisch	asimétrico		1
	(b) symmetric	symétrique	symmetrisch	simétrico		2
8.	Leaf: attitude	Feuille: port	Blatt: Haltung	Hoja: porte		
QN	(a) semi-erect	demi dressée	halbaufrecht	semierecta		3
	(b) horizontal	horizontale	waagerecht	horizontal		5
	semi-pendulous	demi retombante	halbhängend	semicolgante		7
9. (*)	Leaf: variegation	Feuille: panachure	Blatt: Panaschierung	Hoja: variegado		
QL	(a) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
10. (*)	Leaf: spots	Feuille:	Blatt: Flecken			
QL	(a) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
11.	Leaf: main color of upper side	Feuille: couleur principale de la face supérieure	Blatt: Hauptfarbe der Oberseite	Hoja: color principal del haz		
PQ	(a) yellowish green	vert jaunâtre	gelblichgrün	verde amarillento		1
	light green	vert claire	hellgrün	verde claro		2
	medium green	vert moyen	mittelgrün	verde medio		3
	dark green	vert foncé	dunkelgrün	verde oscuro		4

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
12.	Leaf: anthocyanin coloration of upperside	Feuille: pigmentation anthocyanique de la face supérieure	Blatt: Anthocyanfärbung	Hoja: pigmentación antociánica		
QN	(a) absent or very weak	absente or faible	fehlend oder sehr gering	ausente o débil		1
	weak	faible	gering	débil		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte		7
	very strong	très forte	sehr stark	muy fuerte		9
13.	Inflorescence: number	Inflorescence: nombre	Blütenstand: Anzahl	Inflorescencia:		
?	(a) one		ein			1
	one or two		ein oder zwei			2
	two		zwei			3
	two or three		zwei oder drei			4
	three		drei			5
	more than three		mehr als drei			6
14.	Inflorescence: type	Inflorescence: type	Blütenstand: Typ	Inflorescencia: tipo		
QL	(a) one flowered					1
	raceme	grappe	traubenartig	racimo		2
	panicle	panicule	rispenartig	panícula		3
15.	Inflorescence: length	Inflorescence: longueur	Blütenstand: Länge	Inflorescencia: longitud		
(+)						
QN	(a) short	courte	kurz	corta		3
	medium	moyenne	mittel	media		5
	long	longue	lang	larga		7

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
16.	Inflorescence: number of flowers (excl. one flowered see 14)	Inflorescence: nombre de fleurs	Blütenstand: Anzahl der Blüten	Rama floral: longitud		
QN (a)	few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
17.	Peduncle: length	Pédoncule: longueur	Blumenstiel: Länge	Pedúnculo: longitud		
QN (a)	short	courte	kurz	corta		3
	medium	moyen	mittel	media		5
	long	longue	lang	larga		7
18.	Peduncle: thickness at lower third	Pédoncule: épaisseur	Blütenstiel: Dicke	Pedúnculo: grosor		
QN (a)	thin	fin	dünn	delgado		
	medium	moyen	mittel	medio		
	thick	épais	dick	grueso		
19.	Peduncle: anthocyanin coloration	Pédonculo: pigmentation anthocyanique	Blütenstiel: Anthocyanfärbung	Pedúnculo: pigmentación antociánica		
QL (a)	absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
20.	Flower: general appearance of sepals and petals	Fleur: apparence générale des sépales et pétales	Blüte: allgemeine Erscheinungsform der Kelchblätter und der Blütenblätter	Flor: aspecto general de sépalos y pétalos		
PQ (c)	incurving	incurvés	aufgebogen	curvados hacia arriba		1
	straight					2
	reflexing	réfléchis	zurückgebogen	curvados hacia abajo		3

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
21. (+)	Flower: length in front view	Fleur: longueur en vue de face	Blüte: Länge in der Voransicht	Flor: longitud en vista frontal		
QN (c)	short	courte	kurz	corta		3
	medium	moyen	mittel	media		5
	long	longue	lang	larga		7
22. (*) (+)	Flower: width in front view	Fleur: largeur en vue de face	Blüte: Breite in der Voransicht	Flor: anchura en vista frontal		
QN (c)	narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7
23. (+)	Flower: position of petals	Fleur: disposition de pétales	Blüte: Position der Blütenblätter	Flor: disposición de los pétalos		
QN (c)	open	ouverts	offen	abierta		1
	touching	tangents	sich berührend	tocándose		2
	overlapping	chevauchants	überlappend	tocándose		3
24.	Flower: fragrance	Fleur: parfum	Blüte: Duft	Flor: fragancia		
QL (c)	absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
25.	Dorsal sepal: length	Sépale: longueur	Kelchblatt: Länge	Sépalo: longitud		
QN (c)	short	courte	kurz	corta		3
	medium	moyen	mittel	media		5
	long	longue	lang	larga		7
26.	Dorsal sepal: width	Sépale: largeur	Kelchblatt: Breite	Sépalo: anchura		
QN (c)	narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
27.	Dorsal sepal: ratio length/width	Sépale: rapport longueur/largeur	Kelchblatt: Verhältnis Länge/Breite	Sépalo: relación longitud/anchura		
QN	(c) small	petit	klein	pequeña		3
	medium	moyen	mittel	media		5
	large	élevé	groß	grande		7
28.	Dorsal sepal: position of broadest part	Sépale: position de la partie la plus large	Kelchblatt: Position der breitesten Stelle	Sépalo: posición de la parte más ancha		
QL	(c) lower third	tiers inférieur	im unteren Drittel	en el tercio inferior		1
	middle third	tiers médian	im mittleren Drittel	en el tercio medio		2
	upper third	tiers supérieur	im oberen Drittel	en el tercio superior		3
29.	Dorsal sepal: curvature of longitudinal axis	Sépale: courbure de l'axe longitudinal	Kelchblatt: Biegung der Längsachse	Sépalo: curvatura del eje longitudinal		
PQ	(c) incurving	incurvés	aufgebogen	curvados hacia arriba		1
	spreading	étalés	breitwüchsig	extendidos		2
	recurving	retombant	zurückgebogen	curvados hacia abajo		3
30.	Dorsal sepal: cross section	Sépale: section transversale	Kelchblatt: Querschnitt	Sépalo: corte transversal		
QN	(c) concave	concave	konkav	cóncavo		1
	straight	droite	gerade	recto		2
	convex	convexe	konvex	convexo		3
31.	Dorsal sepal: twisting	Sépale: torsion	Kelchblatt: Drehung	Sépalo: torsión		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
32.	Dorsal sepal: undulation of margin	Sépale: ondulation du bord	Kelchblatt: Randwellung	Sépalo: ondulación del margen		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
33.	Sepal: main color of upper side	Sépale: couleur principale de la face supérieur	Kelchblatt: Hauptfarbe der Oberseite			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
34.	Dorsal sepal: shading	Sépale:	Kelchblatt:	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
35.	Dorsal sepal: color of shade	Sépale: couleur	Kelchblatt: Farbe			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
36.	Dorsal sepal: spots	Sépale:	Kelchblatt: Flecken	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
37.	Dorsal sepal: number of spots	Sépale:	Kelchblatt: Anzahl der Flecken			
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
38.	Dorsal sepal: color of spots	Sépale: couleur	Kelchblatt: Farbe der Flecken			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
39.	Dorsal sepal: stripes	Sépale:	Kelchblatt: Streifen	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
40.	Dorsal sepal: number of stripes	Sépale:	Kelchblatt: Anzahl der Streifen			
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
41.	Dorsal sepal: color of stripes	Sépale: couleur	Kelchblatt: Farbe der Streifen			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
42.	Dorsal sepal: netting	Sépale:	Kelchblatt:	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
43.	Dorsal sepal: density of netting	Sépale:	Kelchblatt:	Sépalo:		
QN	(c) loose					3
	medium					5
	dense					7
44.	Dorsal sepal: color of netting	Sépale: couleur	Kelchblatt: Farbe	Sépalo		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
45.	Lateral sepal: shading	Sépale:	Kelchblatt:	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
46.	Lateral sepal: color of shade	Sépale: couleur	Kelchblatt: Farbe			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
47.	Lateral sepal: spots	Sépale:	Kelchblatt: Flecken	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
48.	Lateral sepal: number of spots	Sépale:	Kelchblatt: Anzahl der Flecken			
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
49.	Lateral sepal: color of spots	Sépale: couleur	Kelchblatt: Farbe der Flecken			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
50.	Lateral sepal: stripes	Sépale:	Kelchblatt: Streifen	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
51.	Lateral sepal: number of stripes	Sépale:	Kelchblatt: Anzahl der Streifen			
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
52.	(c) Lateral sepal: color of stripes	Sépale: couleur	Kelchblatt: Farbe der Streifen			
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
53.	Lateral sepal: netting	Sépale:	Kelchblatt:	Sépalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
54.	Lateral sepal: density of netting	Sépale:	Kelchblatt:	Sépalo:		
QN	(c) loose					3
	medium					5
	dense					7
55.	Lateral sepal: color of netting	Sépale: couleur	Kelchblatt: Farbe	Sépalo		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
56.	Petal: length	Pétale: longueur	Blütenblatt: Länge	Pétalo: longitud		
QN	(c) short	courte	kurz	corta		3
	medium	moyen	mittel	media		5
	long	longue	lang	larga		7
57.	Petal: width	Pétale: largeur	Blütenblatt: Breite	Pétalo: anchura		
QN	(c) narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7
58.	Petal: ratio length/width	Pétale: rapport longueur/largeur	Blütenblatt: Verhältnis Länge/Breite	Pétalo: relación longitud/anchura		
QN	(c) small	petit	klein	pequeña		3
	medium	moyen	mittel	media		5
	large	élevé	groß	grande		7
59.	Petal: position of broadest part	Pétale: position de la partie la plus large	Blütenblatt: Position der breitesten Stelle	Pétalo: posición de la parte más ancha		
QL	(b) lower third	tiers inférieur	im unteren Drittel	en el tercio inferior		1
	middle third	tiers médian	im mittleren Drittel	en el tercio medio		2
	upper third	tiers supérieur	im oberen Drittel	en el tercio superior		3

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
60.	Petal: curvature of longitudinal axis	Pétale: courbure de l'axe longitudinal	Blütenblatt: Biegung der Längsachse	Pétalo: curvatura del eje longitudinal		
PQ	(c) incurving	incurvés	aufgebogen	curvados hacia arriba		1
	spreading	étalés	breitwüchsig	extendidos		2
	recurving	retombant	zurückgebogen	curvados hacia abajo		3
61.	Petal: cross section	Pétale: section transversale	Blütenblatt: Querschnitt	Pétalo: corto transversal		
QN	(c) concave	concave	konkav	cóncavo		1
	straight	droite	gerade	recto		2
	convex	convexe	konvex	convexo		3
62.	Petal: twisting	Pétale: torsion	Blütenblatt: Drehung	Pétalo: torsión		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
63.	Petal: undulation of margin	Pétale: ondulation du bord	Blütenblatt: Randwellung	Pétalo: ondulación del margen		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
64. 	Petal: main color of upper side	Pétale: couleur principale de la face supérieur	Blütenblatt: Hauptfarbe der Oberseite	Pétalo: color principal		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
65. 	Petal: shading	Pétale:	Blütenblatt:	Pétalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
66.	Petal: color of shade	Pétale: couleur	Blütenblatt: Farbe	Pétalo:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
67. 	Petal: spots	Pétale:	Blütenblatt: Flecken	Pétalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
68.	Petal: number of spots	Pétale:	Blütenblatt: Anzahl der Flecken			
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
69.	Petal: color of spots	Pétale: couleur	Blütenblatt: Farbe der Flecken			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
70. 	(c) Petal: stripes	Pétale:	Blütenblatt: Streifen	Pétalo:		
QL	absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
71.	(c) Petal: number of stripes	Pétale:	Blütenblatt: Anzahl der Streifen			
QN	few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
72.	(c) Petal: color of stripes	Pétale: couleur	Blütenblatt: Farbe der Streifen			
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
73. 	Petal: netting	Pétale:	Blütenblatt:	Pétalo:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
74.	Petal: density of netting	Pétale:	Blütenblatt:			
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
75.	Petal: color of netting	Pétale: couleur	Blütenblatt: Farbe			
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
76.	Lip: length of apical lobe	Labelle: longueur du lobe apical	Lippe: Länge des apikalen Lappens	Labio: longitud del lóbulo apical		
QN	(c) short	courte	kurz	corta		3
	medium	moyen	mittel	media		5
	long	longue	lang	larga		7
77.	Lip: width of apical lobe	Labelle: largeur du lobe apical	Lippe: Breite des apikalen Lappens	Labio: anchura des lóbulo apical		
QN	(c) narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7
78.	Lip: shape of apical lobe	Labelle: forme du lobe apical	Lippe: Form des apikalen Lappens	Labio: forma del lóbulo apical		
PQ	(c) ovate	ovale	eiförmig	oval		1
	elliptic	elliptique	elliptisch	elíptica		2
	obovate	obovale	verkehrt eiförmig	oboval		3
	orbicular	orbiculaire	kreisförmig	orbical		4
	semi-circular	demi-arrondi	halbkreisförmig	semicircular		5
	deltoid	deltoïde	deltaförmig	deltoide		6
	obdeltoid	obdeltoïde	verkehrt deltaförmig	obdeltatoide		7
	rhombic	losangique	rautenförmig	rómbica		8

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
79.	Lip: whiskers	Labelle: cirres	Lippe: Haare	Labio: patillas		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
80.	Lip: length of whiskers	Labelle: logueur du cirres	Lippe: Länge der Haare	Labio:		
QN	(c) short	courte	kurz	corta		3
	medium	moyen	mittel	media		5
	long	longue	lang	larga		7
81.	Lip: bump and ridge on apical lobe	Labelle: bosse et arête sur le lobe apical	Lippe: Höcker und Wulst am apikalen Lappen	Labio: Chicón y cresta en el lóbulo apical		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
82.	Lip: type of shape of lateral lobe	Labelle: type de forme du lobe latéral	Lippe: Type der Form des Seitenlappens	Labio: tipo de forma del lóbulo lateral		
(+)						
PQ	(c) type I	type I	Typ I	tipo I		1
	type II	type II	Typ II	tipo II		2
	type III	type III	Typ III	tipo III		3
	type IV	type IV	Typ IV	tipo IV		4
	type V	type V	Typ V	tipo V		5
83.	Lip: type of curvature of lateral lobe	Labelle: type de courbure du lobe latéral	Lippe: Type der Biegung des Seitenlappens	Labio: tipo de curvatura del lóbulo lateral		
(+)						
PQ	(c) type I	type I	Typ I	tipo I		1
	type II	type II	Typ II	tipo II		2
	type III	type III	Typ III	tipo III		3

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
84.	Lip: size of lateral lobe relative to apical lobe	Labelle: taille du lobe latéral par rapport au lobe apical	Lippe: Grösse des Seitenlappens im Verhältnis zum apikalen Lappen	Labio: tamaño del lóbulo lateral en relación con el lóbulo apical		
PQ	(c) smaller	plus petit	kleiner	más pequeño		3
	same	identique	gleich groß	del mismo tamaño		5
	larger	plus grand	grösser	más grande		7
85.	Lip: main color of apical lobe	Labelle: couleur principale du lobe apical	Lippe: Hauptfarbe des apikalen Lappens	Labio: color principal en el lóbulo apical		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
86.	Apical lobe: shading	Lobe apical:	Apikaler Lappen:	Lóbulo apical:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
87.	Apical lobe: color of shade	Lobe apical:	Apikaler Lappen: Farbe	Lóbulo apical:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
88.	Apical lobe: spots	Lobe apical:	Apikaler Lappen: Flecken	Lóbulo apical:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
89.	Apical lobe: number of spots	Lobe apical:	Apikaler Lappen: Anzahl der Flecken	Lóbulo apical:		
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
90.	Apical lobe: color of spots	Lobe apical: couleur	Apikaler Lappen: Farbe der Flecken	Lóbulo apical:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
91.	Apical lobe: stripes	Lobe apical:	Apikaler Lappen: Streifen	Lóbulo apical:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
92.	Apical lobe: number of stripes	Lobe apical:	Apikaler Lappen: Anzahl der Streifen	Lóbulo apical:		
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
93.	Apical lobe: color of stripes	Lobe apical: couleur	Apikaler Lappen: Farbe der Streifen	Lóbulo apical:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
94.	Apical lobe: netting	Lobe apical:	Apikaler Lappen:	Lóbulo apical:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
95.	Apical lobe: density of netting	Lobe apical:	Apikaler Lappen:	Lóbulo apical:		
QN	(c) loose					3
	medium					5
	dense					7
96.	Apical lobe: color of netting	Lobe apical: couleur	Apikaler Lappen: Farbe	Lóbulo apical:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
97.	Lateral lobe: shading	Lobe latéral:	Seitenlappen:	Lóbulo lateral:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
98.	Lateral lobe: color of shade	Lobe latéral:	Seitenlappen: Farbe	Lóbulo lateral:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
99.	Lateral lobe: spots	Lobe latéral:	Seitenlappen: Flecken	Lóbulo lateral:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
100.	Lateral lobe: number of spots	Lobe latéral:	Seitenlappen: Anzahl der Flecken	Lóbulo lateral:		
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7
101.	Lateral lobe: color of spots	Lobe latéral: couleur	Seitenlappen: Farbe der Flecken	Lóbulo lateral:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
102.	Lateral lobe: stripes	Lobe latéral:	Seitenlappen: Streifen	Lóbulo lateral:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
103.	Lateral lobe: number of stripes	Lobe latéral:	Seitenlappen: Anzahl der Streifen	Lóbulo lateral:		
QN	(c) few	faible	gering	bajo		3
	medium	moyen	mittel	media		5
	many	élevé	groß	alto		7

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
104.	Lateral lobe: color of stripes	Lobe latéral: couleur	Seitenlappen: Farbe der Streifen	Lóbulo lateral:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
105.	Lateral lobe: netting	Lobe latéral:	Seitenlappen:	Lóbulo lateral:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
106.	Lateral lobe: density of netting	Lobe latéral:	Seitenlappen:	Lóbulo lateral:		
QN	(c) loose					3
	medium					5
	dense					7
107.	Lateral lobe: color of netting	Lobe latéral: couleur	Seitenlappen: Farbe	Lóbulo lateral:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
108.	Lip: callus	Labelle: callus	Lippe: Kallus	Labio: callo		
QL	(c) prominent	proéminent	herausragend	prominente		1
	flat	plat	flach	plano		9
109.	Lip: color	Labelle: couleur	Lippe: Farbe	Labio:		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
110.	Lip: pubescence	Labelle:	Lippe: Behaarung	Labio:		
QL	(c) absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
111.	Columna: color	Colonne: couleur	Säule: Farbe	Columna: color		
PQ	(c) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el 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 plant and stem should be made when 50% of flowers have opened on the first inflorescence.
- (b) Observations on leaves should be made on fully expanded leaves.
- (c) Observations on flowers should be made on fully expanded flowers when 50% of flowers have opened.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: height

Plant height including flowers should be measured from soil level to the top of the plant including the flowers.

Ad. 15: Inflorescence: length

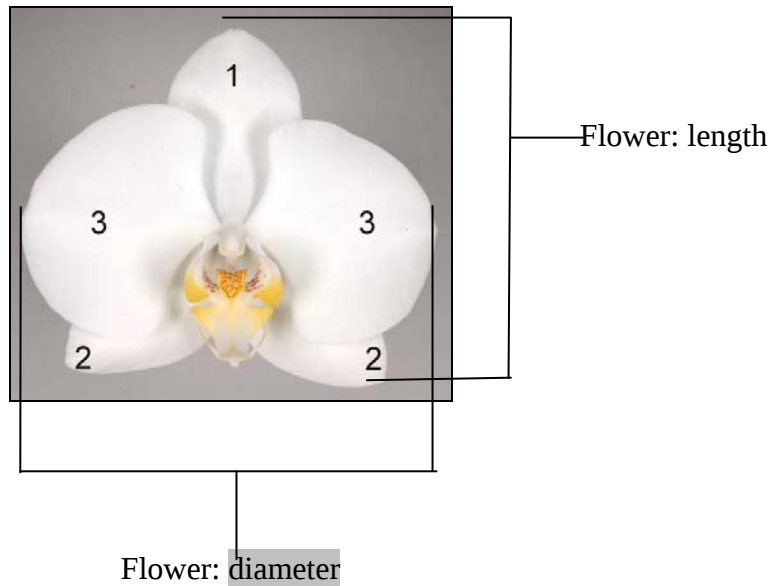
Inflorescence: length



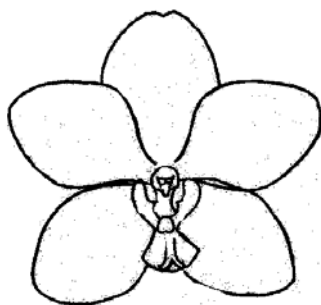
Ad. 21: Flower: length in front view

Ad. 22: Flower: width in front view

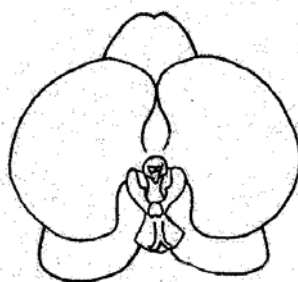
- 1: dorsal sepal
- 2: lateral sepal
- 3: petal



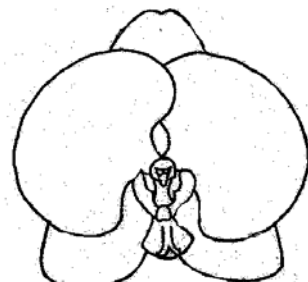
Ad.23: Flower: position of petals



1
open



2
touching



3
overlapping

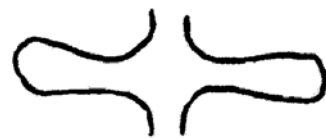
Ad. 82: Lip: type of shape of lateral lobe



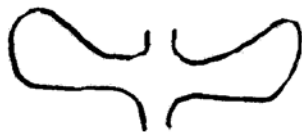
1
type I



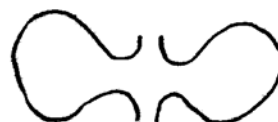
2
type II



3
type III



4
type IV



5
type V

Ad. 83: Lip: type of curvature of lateral lobe



1
type I



2
type II



3
type III

9. Literature

Pridgeon, A., 1992: The Illustrated Encyclopedia of Orchids, Timber Press, 304 pp.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Genus		
1.1.1 Botanical Name	<i>Phalaenopsis</i> Blume	
1.1.2 Common Name	Phalaenopsis	
1.2 Species (please complete)		
1.2.1 Botanical Name		
1.2.2 Common Name		
2. Applicant		
Name		
Address		
Telephone No.		
Fax No.		
E-mail address		
Breeder (if different from applicant)		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
-------------------------	-----------------	-------------------

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	
Breeder's reference	

#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 unknown cross (please state known parent variety(ies))	[]
(c) totally unknown cross	[]

4.1.2 Mutation []
(please state parent variety)

4.1.3 Discovery []
(please state where, when and how developed)

4.1.4 Other []
(please provide details)

4.2 Method of Propagating the Variety

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

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:
5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).			
Characteristics	Example Varieties	Note	
5.1 Plant: length (1)			
short		3[]	
medium		5[]	
long		7[]	
5.2 Leaf: variegation (9)			
absent		1[]	
present		9[]	
Char. 10?			
5.3 Flower: width in front view (22)			
narrow		3[]	
medium		5[]	
broad		7[]	
5.4 Petal: main color of upper side (64)			
white		1[]	
yellow		2[]	
green		3[]	
orange		4[]	
red		5[]	
violet		6[]	
purple red		7[]	
purple		8[]	
brown		9[]	

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Characteristics	Example Varieties	Note
5.5 Petal: shading (65)		
absent		1[]
present		9[]
5.6 Petal: spots (67)		
absent		1[]
present		9[]
5.7 Petal: stripes (70)		
absent		1[]
present		9[]
5.8 Petal: netting (73)		
absent		1[]
present		9[]

Comments:

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#7. Additional information which may help in the examination of the variety 7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? Yes ☐ No ☐ (If yes, please provide details) 7.2 Special conditions for the examination of the variety Are there any special conditions for growing the variety or conducting the examination? Yes ☐ No ☐ (If yes, please provide details) 7.3 Other information A representative color photograph of the variety should accompany the Technical Questionnaire.		
8. Authorization for release (a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health? Yes ☐ No ☐ (b) Has such authorization been obtained? Yes ☐ No ☐ If the answer to (b) is yes, please attach a copy of the authorization.		

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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9. Information on plant material to be examined or submitted for examination.

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

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

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

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

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

Applicant's name				
Signature			Date	

[End of document]