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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

ZINNIA

UPOV Code(s): ZINNI_ANG; ZINNI_ELE; ZINNI_HAA; ZINNI_PER

> Zinnia angustifolia Kunth; Zinnia elegans Jacq.; Zinnia haageana Regel; Zinnia peruviana (L.) L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Mexico

to be considered by the

Technical Working Party for Ornamental Plants and Forest Trees at its forty-ninth session, to be held in Gimcheon City, Republic of Korea, from 2016-06-13 to 2016-06-17

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
<i>Zinnia angustifolia</i> Kunth				
Zinnia elegans Jacq., Zinnia violacea Cav.	Youth and age, Youth-and-old-age	Zinnia élégant	Zinnie	Rascamoño, Zinnia
<i>Zinnia haageana</i> Regel				
<i>Zinnia peruviana</i> (L.) L.	Field zinnia, Peruvian zinnia, Wild zinnia			

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.

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.]

ASSOCIATED DOCUMENTS

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

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1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of Zinnia angustifolia Kunth, Zinnia elegans Jacq., Zinnia haageana Regel, Zinnia peruviana (L.) L.

2. <u>Material Required</u>

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

a sufficient quantity of seeds to produce 10 plants for F1 hybrids and 40 plants for cross-pollinated varieties

The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.

The applicant must indicate if the material comes from F1 hybrids or from open pollinated varieties

- 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. <u>Method of Examination</u>

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

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.

- 3.3.3 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 description.
- 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 10 plants for F1 hybrids and 40 plants for cross-pollinated varieties.
- 3.5 Additional Tests

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 Distinctness

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of plants or parts of plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts of plants taken from each of 10 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

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

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

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

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

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

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

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

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

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

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

- 4.1.6 Unless otherwise indicated, for the purposes of distinctness all observations on single plants should be made on 9 plants for F1 hybrids and at least 20 for cross-polinated varieties or parts taken from each plant and any other observations made on all plants in the test, disregarding any off-type plants.
- 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 The assessment of uniformity for F-1 hybrid varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.
- 4.2.3 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction.
- 4.2.4 For cross-polinated varieties, the assessement of uniformity should be according to the recommendations for cross-polinated varieties as appropriate, in the General Introduction.
- 4.3 Stability
- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.
- 4.3.3 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.

5. Grouping of Varieties and Organization of the Growing Trial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
 - (a) Plant: growth habit (characteristic 1)
 - (b) Plant: branching (characteristic 3)
 - (c) Stem: density of pubescence (characteristic 5)
 - (d) Leaf: length/width ratio (characteristic 8)
 - (e) Leaf: position of broadest part (characteristic 9)
 - (f) Leaf: profile in cross section (characteristic 10)
 - (g) Leaf: undulation of margin (characteristic 11)
 - (h) Leaf: anthocyanin coloration at base (characteristic 13)
 - (i) Flower head: peduncle length (characteristic 14)
 - (j) Flower head: type (characteristic 15)
 - (k) Ray floret: profile in cross section at mid point (characteristic 21)
 - (I) Ray floret: longitudinal axis (characteristic 22)
 - (m) Ray floret:strength of curvature (characteristic 24)
 - (n) Ray floret: shape of apex (characteristic 25)
 - (o) Ray floret: pattern of secondary color of inner side (characteristic 29)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

- 6.2 States of Expression and Corresponding Notes
- 6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.
- 6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

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

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

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

6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudoqualitative) 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

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1 2	3	4	5	6	7			
	Name chara in Eng	cteristics	Nom o caract frança	tère en	Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states expres		types	d'expression	Ausprägungsstufen	tipos de expresión		

1 Characteristic number

2	(*)	Asterisked characteristic	- see Chapter 6.1.2
3	Type of expression QL QN PQ	Qualitative characteristic Quantitative characteristic Pseudo-qualitative characteristic	see Chapter 6.3see Chapter 6.3see Chapter 6.3
4	Method of observation (and type MG, MS, VG, VS	e of plot, if applicable)	– see Chapter 4.1.5
5	(+)	See Explanations on the Table o	f Characteristics in Chapter 8.2
6	(a)-(e)	See Explanations on the Table o	f Characteristics in Chapter 8.1

7 Growth stage key See Explanations on the Table of Characteristics in Chapter 8

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

			English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	(*)	PQ	VG						
		Plant:	growth habit	Plante	: port	Pflanze: Wuchsform	Planta: porte		T
		uprigh	ıt	dressé		aufrecht	erecta	Peppermint	1
		semi-u	upright	demi-d	ressé	halbaufrecht	semierecta	Profussion	2
		spread	ding	étalé		breitwüchsig	extendido	Solecito	3
2.	(*)	QN	MS/VG						
		Plant:	height	Plante	: hauteur	Pflanze: Höhe	Planta: altura		
		short		basse		niedrig	baja	Peppermint	3
		mediu	ım	moyen	ne	mittel	media	Witworna	5
		tall		haute		hoch	alta	Inca	7
3.	(*)	QN	VG						
			t or very weak					Witworna	1
		mediu	Im					Peppermint	3
		strong							4
		very s						Profussion	5
Λ	(*)	QN	VG						
		Stem:	anthocyanin ation on upper						Γ
		absen	t or weak	nulle o	u faible	fehlend oder gering	ausente o débil	Dreamland	1
		weak						Lilliput	3
		mediu	ım	moyen	ne	mittel	media	Profussion	5
		very s	trong					Arcos	7
5.		QN	VG						
		Stem: pubes	density of scence						
		absen	t or sparse					Zestr	1
		mediu	IM					Uproar	2
		dense						Short stuff	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6. (*)	QN	MS/VG	(a)				
	Leaf:	width					
	narrov	N				Starbright	3
	mediu	ım				Yellow flame	5
	long					Short stuff	6
7. (*)	QN	MS/VG	(a)			-	1
•	Leaf:	length					
	short					Zinnita	3
	mediu	ım				Zahara Double Cherry	5
	long					State Fair	7
8. (*)	QN	MS/VG	(a)				
:	-	length/width					
	low					Crystal yellow	3
	medium						5
	high					Dreamland rose	7
9.	QN	VG	(a)				I
	Leaf: broac	position of lest part	Feuille : position de la partie la plus large	Blatt: Position der breitesten Stelle	Hoja: posición de la parte más ancha		
	toward	ds base				Dreamland rose	1
	toward	ds middle				Cherry ivory, Swizzle	2
	toward	ds apex				Oklahoma	3
10. (*)	QN	VG	(a)				-
		profile in cross					
	flat					Profusion Knee High Red	1
	mode	rately concave				Lilliput	2
		ly concave				State Fair	3
11.	QN	VG	(a)				1
	Leaf: margi	undulation of	Feuille: ondulation du bord	Blatt: Wellung des Randes	Hoja: ondulación del margen		
	abser	it or weak	nulle ou faible	fehlend oder gering	ausente o débil		1
	mediu	ım	moyenne	mittel	media		2
	strong]	forte	stark	fuerte		3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.	QN	VG	(a)				
	Leaf: greer	intensity of color					
	very li	ight					1
	light					Oklahoma	2
	mediu	ım					3
	dark					Starbright	4
	very c	lark					5
13. (*)	QN	VG	(a)	-	L	•	
	Leaf: color	anthocyanin ation at base	:				
		nt or weak				Oklahoma	1
	medium					Uproar rose	2
	strong					State Fair	3
14.	QN	MS/VG					1
	Flowe	er head: peduncle h					
	short					Zahara Coral Rose	3
	mediu	Jm				Witworna	5
	long					Uproar rose	7
15. (*)	PQ	VG	(b)				
		er head: type					
	single					Star	1
	semi-double					Yellow flame	2
	double					Lilliput	3
16.	QN	MS/VG					
	Flower head: number of ray florets						
	few					Zowwie Yellow Flame	3
	mediu	ım				Uproar Rose	5
	many					Swizzle Scarlet Yellow	7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.	QN	MS/VG						
	Flowe	er head: diameter	Capitu	ule : diamètre	Blütenstand: Durchmesser	Capítulo: diámetro		
	small						Lilliput	3
	mediu	ım					Oklahoma	5
	large						Inca	7
18. (*)	QN	MS/VG		(c)			1	1
:	Ray fl	oret: length	Fleur	igulée: longueur	Randblüte: Länge	Flor ligulada: longitud		
	short		courte		kurz	corta	Lilliput	3
	mediu	im	moyer	nne	mittel	media	Peppermint stick, Profussion knee	5
	long		longue)	lang	larga	Inca	7
19. (*)	QN	MS/VG		(c)			1	1
·	Ray fl	oret: width						
	narrov	v	étroite		schmal	estrecha	Star Starbright	3
	mediu	IM	moyenne		mittel	media	Ruffles	5
	broad		large		breit	ancha	Inca	7
20. (*)	QN	MS/VG		(c), (d)				1
	Ray fl lengtl	oret: n/width ratio						
	low		faible		klein	baja	Profusion Knee High Red	3
	mediu	IM	moyer	1	mittel	media	Ruffles	5
	high		élevé		groß	elevada	Swizzle Scarlet Yellow	7
21.	QN	VG		(d)				1
	Ray fl cross point	oret: profile in section at mid		:				
	strong	ly concave						1
	mode	moderately concave		nnement concave	mittel konkav	moderadamente cóncava		2
	weakl	y concave	faiblen	nent concave	schwach konkav	débilmente cóncava		3
	flat		plat		flach	plana		4
	weakl	y convex	faiblen	nent convexe	schwach konvex	débilmente convexa		5
	mode	rately convex	moyer	nement convexe	mittel konvex	moderadamente convexa		6
	strong	ly convex	fortem	ent convexe	stark konvex	fuertemente convexa		7

22.	QN	English	français (d)	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
		oret: longitudinal		Zungenblüte: Längsachse	Lígula: eje longitudinal		
	incurvi	ng	incurvé	aufgebogen	curvado hacia arriba		1
	straigh	it	droit	gerade	recto		2
	reflexir	 ng	recourbé	zurückgebogen	curvado hacia abajo		3
23.	QN	VG	(d)				
:	Ray flo	oret: part of axis	Fleuron: partie de l'axe courbé	Zungenblüte: Teils der gebogenen Achse	Lígula: parte del eje que es curvado		
	distal o	quarter	quart distal	distales Viertel	cuarto distal		1
	distal h	nalf	moitié distale	distale Hälfte	mitad distal	•	2
	distal t	hree quarters	trois quarts distaux	distale drei Viertel	tres cuartos, zona distal		3
24.	QN	VG	(d)		1		
	Ray flo curvat	oret:strength of ture					
	weak					Uproar rose	3
	mediu	m				Swizzle cherry ivory	5
	strong					Inca	7
25. (*)	PQ	VG	(d)				
	Ray flo apex	oret: shape of					
	mucro	nate					1
	truncat	te					2
	rounde	ed					3
	emarg	inated					4
26.	PQ	VG	(e)		·		
	Ray flo color o presei	oret: secondary of inner side (if nt)					
		Colour Chart te reference er)					
27. (*)	PQ	VG	(d), (e)				
	Ray flo	oret: main color er side					
		Colour Chart te reference er)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28.	PQ VG	(e)				·
	Ray floret: distrib of secondary colo inner side	ution pr of				
	none				Ruffles	1
	basal part				Swizzle	2
	distal part					3
	along midrib					4
	throughout				Peppermint Stick	5
29.	PQ VG			·		
	Ray floret: pattern secondary color o inner side	n of of				
	solid					1
	blotches					2
	stripes					3
30.	PQ VG	(e)				
	Ray floret: tertiary color of inner side present)	/ e (if				
	RHS colour chart (indicate reference number)					
31.	PQ VG					
	Ray floret pattern tertiary color of ir side	of iner				
	solid					1
	blotches					2
	stripes					3
32.	PQ VG					
	Ray floret: distrib of tertiary color o inner side	ution f				
	basal					1
	distal					2
	striped					3
	blotched				Peppermint Stick	4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33.	PQ	VG			·		
	Flower head: color of disc (if present)						
	RHS Colour chart (indicate reference number)						

8. Explanations on the Table of Characteristics

8.1 Explanations covering several characteristics

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

- (a) Leaf characteristics are recorded on typical leaves taken from the middle thirdof the stem, and are recorded on the whole leaf, looking at the upper surface.
- (b) Single flower head has only one row of ray florets. Semi-double flower head: has more than one row of ray florets and a visible flower head disc. Double flower head: has no flower head disc, at any state of development.
- (c) The characteristics of ray florets should be observed on the outer most rows of ray florets.
- (d)
- (e) The main color, is the color with the largest total surface area, the secondary color (if present) is the color with the second largest surface area; the tertiary color (if present) is that with the third largest total surface. In case of when none of the colors is clearly predominant, then the darkest color will be the main color.
- 8.2 Explanations for individual characteristics

8.3

9. <u>Literature</u>

Calderón de Rzedowski, G. y J. Rzedowski. 2006. Flora Fanerogámica del Valle de México. Ed. Instituto de Ecología A.C. y Comisión Nacional para el Conocimiento y Uso de la Biodiversidad. México. 983 p. Flora of North America. 2003. Flora of North America, North of Mexico. Editorial Committee. Vol 25. New York (NY): Oxford University Press. Smith A. R. 226. Zinnia L. In: Flora of North America Vol.21. Oxford University Press. Torres A. M. 1963. Taxonomy of Zinnia. Brittonia 15: 1-25.

10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIRE				Page {x} of {y}		Reference Number:	
						Application date: (not to be filled in by the applica	nt)
		to be completed in		ECHNICAL QUESTIONI			
1.	Subject of the Technical Questionnaire						
	1.1.1	Botanical name	Ziı	nnia peruviana (L.) L.			[]
	1.1.2	Common name	Fie	eld zinnia, Peruvian zinni	ia, W	/ild zinnia	
	1.2.1	Botanical name	Ziı	nnia angustifolia Kunth			[]
	1.2.2	Common name					
	1.3.1	Botanical name	Ziı	nnia elegans Jacq.			[]
	1.3.2 Common name		Youth and age, Youth-and-old-age				
	1.4.1	Botanical name	Ziı	nnia haageana Regel			[]
	1.4.2	Common name					
2.	Applica	nt					
	Name						
	Addres	S					
	Telepho	one No.					
	Fax No						
	E-mail a	address					
	Breede applica	r (if different from nt)					
3.	Proposed denomination and bree			's reference			
	Proposed denomination (if available)						
	Breeder's reference						

TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number:								
#4.	#4. Information on the breeding scheme and propagation of the variety							
	4.1 Breeding scheme							

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

4.2 4.2.1	Method of propagating the variety Other (Please provide details)	[]	

TECHI	NICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:					
	 Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds). 							
	Characteristics		Example Varieties	Note				
5.1	Plant: growth habit							
(1)								
	upright		Peppermint	1[]				
	semi-upright		Profussion	2[]				
	spreading		Solecito	3[]				
5.2	Plant: height							
(2)								
	short		Peppermint	3[]				
	medium		Witworna	5[]				
	tall		Inca	7[]				
5.3	Flower head: type							
(15)								
	single		Star	1[]				
	semi-double		Yellow flame	2[]				
	double		Lilliput	3[]				
5.4	Ray floret:strength of curvature							
(24)								
	weak		Uproar Rose	3[]				
	medium		Swizzle cherry ivory	5[]				
	strong		Inca	7[]				

TECHNICAL QUESTIONNAIRE	Page {x} of {	Page {x} of {y}		imber:			
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.							
variety(ies) similar to your your candidate	tic(s) in which e variety differs ilar variety(ies)	the characte	e expression of eristic(s) for the variety(ies)	Describe the expression of the characteristic(s) for your candidate variety			
Example							
Comments:							

ТЕСН	NICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:				
#7.	Additional information which may he	lp in the examination of the variety					
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?						
	Yes []	No	[]				
	(If yes, please provide details)						
7.2	Are there any special conditions for	growing the variety or conducting the exami	nation?				
	Yes []	No	[]				
	(If yes, please provide details)						
7.3	Other information						

8.	8. Authorization for release							
	(a)	(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 suc	ch authorization be	en obtained?				
		Yes	[]	No	[]			
	If the	answer to	o (b) is yes, please	attach a copy of	f the authorization			
9. In	formati	on on pla	nt material to be ex	kamined or subm	nitted for examinat	tion		
	s and	disease,		nt (e.g. growth	retardants or pe	a variety may be affected esticides), effects of tiss		
char has	acteris underg	tics of the one such	e variety, unless th	e competent au ails of the treatm	thorities allow or ent must be given	which would affect the request such treatment. a. In this respect, please i bjected to:	If the plant material	
	(a)	Mic	roorganisms (e.g.	virus, bacteria, p	hytoplasma)	Yes []	No []	
	(b)	Che	emical treatment (e.g. growth retard	dant, pesticide)	Yes []	No []	
	(c)	Tiss	sue culture			Yes []	No []	
	(d)	Oth	ner factors			Yes []	No []	
	Ple	ase provi	de details for wher	e you have indic	ated "yes".			
10.	10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:							
	Applicant's name							
	Się	gnature				Date		

[End of document]