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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

LEUCANTHEMUM

UPOV Code(s): LEUCA

Leucanthemum Mill.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from the United Kingdom**to be considered by the**the Technical Committee for adoption by correspondence**Disclaimer: this document does not represent UPOV policies or guidance*Alternative names:^{*}

Botanical name	English	French	German	Spanish
Leucanthemum Mill.	Leucanthemum	Marguerite	Margerite	Margarita

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 *Leucanthemum* Mill.

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 vegetatively propagated young plants.

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*

3.1.1 The minimum duration of tests should normally be a single growing cycle.

3.1.2 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

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

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 10 plants.

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

3.5 *Additional Tests*

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

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

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

4.1.2 Consistent Differences

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

4.1.3 Clear Differences

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

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 9 plants or parts of plants taken from each of 9 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

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

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

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

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

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

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

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

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

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

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

4.2 *Uniformity*

- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.
- 4.2.3 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 plants, 1 off-type is allowed.

4.3 *Stability*

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
- (a) Plant: height (characteristic 1)
 - (b) Flower head: type (characteristic 12)
 - (c) Only varieties with flower head: type: single or semi-double: Flower head: disc type (characteristic 13)
 - (d) Ray floret: type (characteristic 20)
 - (e) Ray floret: color (characteristic 24) with the following groups:
 - Gr. 1: white
 - Gr. 2: light yellow
 - Gr. 3: medium yellow
- 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 All relevant states of expression are presented in the characteristic.

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

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 Legend

	English		français		deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7		
	Name of characteristics in English		Nom du caractère en français		Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states of expression		types d'expression		Ausprägungsstufen	tipos de expresión		

- 1 Characteristic number
- 2 (*) Asterisked characteristic – see Chapter 6.1.2
- 3 Type of expression

QL	Qualitative characteristic	– see Chapter 6.3
QN	Quantitative characteristic	– see Chapter 6.3
PQ	Pseudo-qualitative characteristic	– see Chapter 6.3
- 4 Method of observation (and type of plot, if applicable)

MG, MS, VG, VS	– see Chapter 4.1.5
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- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.2
- 6 (a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Not applicable

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

	English		français		deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*)	QN	MG/MS/VG	(+)					
	Plant: height		Plante : hauteur		Pflanze: Höhe	Planta: altura		
	very short		très basse		sehr niedrig	muy baja		1
	very short to short		très basse à basse		sehr niedrig bis niedrig	muy baja a baja	Luna	2
	short		basse		niedrig	baja	Sunrimaiapy	3
	short to medium		basse à moyenne		niedrig bis mittel	baja a media		4
	medium		moyenne		mittel	media	REGLO	5
	medium to tall		moyenne à haute		mittel bis hoch	media a alta		6
	tall		haute		hoch	alta	Becky	7
	tall to very tall		haute à très haute		hoch bis sehr hoch	alta a muy alta		8
	very tall		très haute		sehr hoch	muy alta		9
2.	QN	VG	(+)					
	Plant: density		Plante : densité		Pflanze: Dichte	Planta: densidad		
	very sparse		très lâche		sehr locker	muy laxa		1
	sparse		lâche		locker	laxa	REGLO	2
	medium		moyenne		mittel	media	Real Sunbeam	3
	dense		dense		dicht	densa	LEUZ0001	4
	very dense		très dense		sehr dicht	muy densa		5
3.	QN	VG	(+)					
	Stem: pubescence		Tige : pilosité		Stängel: Behaarung	Tallo: pubescencia		
	absent or very sparse		absente ou très lâche		fehlend oder sehr locker	ausente o muy laxa	Lacrosse	1
	sparse		lâche		locker	laxa	Seiryu	2
	medium		moyenne		mittel	media		3
	dense		dense		dicht	densa	Ginga	4
	very dense		très dense		sehr dicht	muy densa	LEUZ0001	5

	English		français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
4.	QN	MG/MS/VG	(a)				
Leaf: length	Leaf: length		Feuille : longueur	Blatt: Länge	Hoja: longitud		
	very short		très courte	sehr kurz	muy corta		1
	very short to short		très courte à courte	sehr kurz bis kurz	muy corta a corta		2
	short		courte	kurz	corta		3
	short to medium		courte à moyenne	kurz bis mittel	corta a media	Angel, Macaroon	4
	medium		moyenne	mittel	media		5
	medium to long		moyenne à longue	mittel bis lang	media a larga	Luna	6
	long		longue	lang	larga		7
	long to very long		longue à très longue	lang bis sehr lang	larga a muy larga		8
	very long		très longue	sehr lang	muy larga	Goldfinch, Real Galaxy	9
5.	QN	MG/MS/VG	(a)				
Leaf: width	Leaf: width		Feuille : largeur	Blatt: Breite	Hoja: anchura		
	very narrow		très étroite	sehr schmal	muy estrecha	Angel	1
	very narrow to narrow		très étroite à étroite	sehr schmal bis schmal	muy estrecha a estrecha	Macaroon	2
	narrow		étroite	schmal	estrecha		3
	narrow to medium		étroite à moyenne	schmal bis mittel	estrecha a media	Goldfinch, Luna	4
	medium		moyenne	mittel	media		5
	medium to broad		moyenne à large	mittel bis breit	media a ancha	Real Galaxy	6
	broad		large	breit	ancha		7
	broad to very broad		large à très large	breit bis sehr breit	ancha a muy ancha		8
	very broad		très large	sehr breit	muy ancha		9
6. (*)	QN	MG/MS/VG	(a)				
Leaf: length/width ratio	Leaf: length/width ratio		Feuille : rapport longueur/largeur	Blatt: Verhältnis Länge/Breite	Hoja: relación longitud/anchura		
	very low		très bas	sehr klein	muy baja		1
	very low to low		très bas à bas	sehr klein bis klein	muy baja a baja		2
	low		bas	klein	baja		3
	low to medium		bas à moyen	klein bis mittel	baja a media	Macaroon	4
	medium		moyen	mittel	media	Luna, Real Galaxy	5
	medium to high		moyen à élevé	mittel bis groß	media a alta		6
	high		élevé	groß	alta	Angel	7
	high to very high		élevé à très élevé	groß bis sehr groß	alta a muy alta		8
	very high		très élevé	sehr groß	muy alta	Goldfinch	9

	English		français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
7.	QN	VG	(a)				
	Leaf: intensity of green color		Feuille : intensité de la couleur verte	Blatt: Intensität der Grünfärbung	Hoja: intensidad del color verde		
	light		claire	hell	clara	Luna	1
	medium		moyenne	mittel	media	Real Sunbeam	2
	dark		foncée	dunkel	oscura	LEUZ0003	3
8.	QN	VG	(+)	(a)			
	Leaf: number of indentations of margin		Feuille : nombre de denticulations du bord	Blatt: Anzahl Randeinschnitte	Hoja: número de incisiones del borde		
	very few		très petit	sehr gering	muy bajo		1
	few		petit	gering	bajo	Luna	2
	medium		moyen	mittel	medio	REGLO	3
	many		élevé	hoch	alto	Macaroon, Sunrimaiapy	4
	very many		très élevé	sehr hoch	muy alto	Real Sunbeam	5
9.	QN	VG	(+)	(a)			
	Leaf: depth of indentations of margin		Feuille : profondeur des denticulations du bord	Blatt: Tiefe der Randeinschnitte	Hoja: profundidad de las incisiones del borde		
	very shallow		très peu profonde	sehr flach	muy poco profunda	Luna	1
	shallow		peu profonde	flach	poco profunda		2
	medium		moyenne	mittel	media	Macaroon, Real Sunbeam	3
	deep		profonde	tief	profunda	Sunrimaiapy	4
	very deep		très profonde	sehr tief	muy profunda	REGLO	5
10.	QN	MG/MS/VG	(+)				
	Peduncle: length		Pédoncule : longueur	Blütenstandsstiellänge	Pedúnculo: longitud		
	very short		très courte	sehr kurz	muy corta		1
	very short to short		très courte à courte	sehr kurz bis kurz	muy corta a corta		2
	short		courte	kurz	corta	LEUZ0003	3
	short to medium		courte à moyenne	kurz bis mittel	corta a media		4
	medium		moyenne	mittel	media	Real Dream	5
	medium to long		moyenne à longue	mittel bis lang	media a larga		6
	long		longue	lang	larga	Osiris Neige	7
	long to very long		longue à très longue	lang bis sehr lang	larga a muy larga		8
	very long		très longue	sehr lang	muy larga		9

	English		français		deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
11. (*)	PQ	VG	(+)					
	Flower bud: color		Bouton floral : couleur		Blütenknospe: Farbe	Botón floral: color		
	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)		
12. (*)	PQ	VG	(+)	(b)				
	Flower head: type		Capitule : type		Blütenstand: Typ	Capítulo: tipo		
	single		simple		einfach	sencillo	Angel	1
	semi-double		semi-double		halbgeföllt	semidoble	Real Sunbeam, REGLO	2
	double		double		geföllt	doble	Luna	3
13. (*)	QL	VG	(+)	(b)				
	<u>Only varieties with flower head: type: single or semi-double: Flower head: disc type</u>		<u>Seulement les variétés avec capitule : type : simple ou semi-double : Capitule : type de disque</u>		<u>Nur Sorten mit Blütenstand: Typ: einfach oder halbgeföllt: Blütenstand: Scheibentyp</u>	<u>Sólo variedades con capitulo: tipo: sencillo o semidoble: Capítulo: tipo de disco</u>		
	daisy		marguerite		margeritenförmig	margarita	Real Sunbeam	1
	anemone		anémone		anemonenförmig	anémona	REGLO	2
14. (*)	QN	MG/MS/VG	(+)	(b)				
	Flower head: diameter		Capitule : diamètre		Blütenstand: Durchmesser	Capítulo: diámetro		
	very small		très petit		sehr klein	muy pequeño		1
	very small to small		très petit à petit		sehr klein bis klein	muy pequeño a pequeño		2
	small		petit		klein	pequeño	Little Miss Muffet	3
	small to medium		petit à moyen		klein bis mittel	pequeño a medio		4
	medium		moyen		mittel	medio	Macaroon	5
	medium to large		moyen à grand		mittel bis groß	medio a grande		6
	large		grand		groß	grande	Real Sunbeam	7
	large to very large		grand à très grand		groß bis sehr groß	grande a muy grande		8
	very large		très grand		sehr groß	muy grande	REGLO	9

	English		français		deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15.	QN	MG/MS/VG	(+)	(b)				
Flower head: height	very short		très basse		sehr niedrig	muy corta	Little Miss Muffet	1
	very short to short		très basse à basse		sehr niedrig bis niedrig	muy corta a corta		2
	short		basse		niedrig	corta	Real Dream	3
	short to medium		basse à moyenne		niedrig bis mittel	corta a media		4
	medium		moyenne		mittel	media	Real Sunbeam	5
	medium to tall		moyenne à haute		mittel bis hoch	media a alta		6
	tall		haute		hoch	alta	Macaroon	7
	tall to very tall		haute à très haute		hoch bis sehr hoch	alta a muy alta		8
	very tall		très haute		sehr hoch	muy alta		9
16. (*)	QN	MG/MS/VG	(+)	(b)				
Only varieties with flower head: type: single or semi-double; Flower head: disc diameter relative to flower head diameter	very small		très petit		sehr klein	muy pequeño		1
	small		petit		klein	pequeño	Macaroon	2
	medium		moyen		mittel	medio	Real Sunbeam	3
	large		grand		groß	grande	REGLO	4
	very large		très grand		sehr groß	muy grande		5
17. (*)	QN	MG/MS/VG		(b)				
Only varieties with flower head: type: single or semi-double; Flower head: ray floret number	few		petit		gering	bajo	Sunrimaiapy	3
	few to medium		petit à moyen		gering bis mittel	bajo a medio		4
	medium		moyen		mittel	medio	REGLO	5
	medium to many		moyen à élevé		mittel bis hoch	medio a alto		6
	many		élevé		hoch	alto	LEUZ0001	7
	many to very many		élevé à très élevé		hoch bis sehr hoch	alto a muy alto		8
	very many		très élevé		sehr hoch	muy alto	Macaroon	9

	English		français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18.	QN	VG	(b)				
Only varieties with flower head: type: double: Ray floret: density	Seulement les variétés avec capitule : type : double : Fleur ligulée : densité	Nur Sorten mit Blütenstand: Typ: gefüllt: Zungenblüte: Dichte	Sólo variedades con capítulo: tipo: doble: Flor ligulada: densidad				
	very sparse	très lâche	sehr locker	muy laxa	Summer Snowball	1	
	sparse	lâche	locker	laxa		2	
	medium	moyenne	mittel	media	Osiris Neige	3	
	dense	dense	dicht	densa	Luna	4	
	very dense	très dense	sehr dicht	muy densa		5	
19.	QN	VG	(+)	(b), (c)			
Flower head: attitude of ray florets at base	Capitule : port des fleurs ligulées à la base	Blütenstand: Stellung der Zungenblüten an der Basis	Capítulo: porte de las flores liguladas en la base				
	moderately ascending	modérément redressé	mäßig aufwärts gerichtet	moderadamente orientado hacia arriba	Daisy Duke	1	
	weakly ascending	faiblement redressé	etwas aufwärts gerichtet	débilmente orientado hacia arriba	Becky	2	
	horizontal	horizontal	waagerecht	horizontal	Sunrimaiapy	3	
	weakly descending	faiblement retombant	etwas abwärts gerichtet	débilmente descendente	Macaroon	4	
	moderately descending	modérément retombant	mäßig abwärts gerichtet	moderadamente descendente		5	
20. (*)	PQ	VG	(+)	(b), (c)			
Ray floret: type	Fleur ligulée : type	Zungenblüte: Typ	Flor ligulada: tipo				
	undivided ligulate	ligué non découpé	zungenförmig ungelappt	ligulado no dividido	GFLEUWHMTN	1	
	divided ligulate	ligué découpé	zungenförmig gelappt	ligulado dividido	Luna	2	
	irregular divided	irrégulier découpé	ungleichmäßig gelappt	irregular dividido	Real Galaxy	3	
	undivided spatulate	spatulé non découpé	spatelförmig ungelappt	espatulado no dividido	Doleuswedaso	4	
	divided spatulate	spatulé découpé	spatelförmig gelappt	espatulado dividido	Lacrosse	5	
	divided funnel shaped	en forme d'entonnoir découpé	trichterförmig gelappt	en forma de embudo dividido	Osiris Neige	6	

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
21. (*)	QN	MG/MS/VG	(b), (c)			
Ray floret: length	Ray floret: length	Fleur ligulée : longueur	Zungenblüte: Länge	Flor ligulada: longitud		
	very short	très courte	sehr kurz	muy corta	1	
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta	2	
	short	courte	kurz	corta	Little Miss Muffet	3
	short to medium	courte à moyenne	kurz bis mittel	corta a media	4	
	medium	moyenne	mittel	media	LEUZ0001	5
	medium to long	moyenne à longue	mittel bis lang	media a larga	6	
	long	longue	lang	larga	Daisy Duke	7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga	8	
	very long	très longue	sehr lang	muy larga	9	
22. (*)	QN	MG/MS/VG	(b), (c)			
Only varieties with ray floret: type: undivided ligulate or undivided spatulate: Ray floret: width	Only varieties with ray floret: type: undivided ligulate or undivided spatulate: Ray floret: width	Seulement les variétés avec fleur ligulée : type : ligulé non découpé ou spatulé non découpé : Fleur ligulée : largeur	Nur Sorten mit Zungenblüte: Typ: zungenförmig ungelappt oder spatelförmig ungelappt: Zungenblüte: Breite	Sólo variedades con flor ligulada: tipo: ligulado o espatulado: Flor ligulada: anchura		
	very narrow	très étroite	sehr schmal	muy estrecha	Angel	1
	narrow	étroite	schmal	estrecha		2
	medium	moyenne	mittel	media	GFLEUWHMTN	3
	broad	large	breit	ancha	Daisy Duke	4
	very broad	très large	sehr breit	muy ancha		5
23. (*)	QN	MG/MS/VG	(b), (c)			
Only varieties with ray floret: type: undivided ligulate or undivided spatulate: Ray floret: length/width ratio	Only varieties with ray floret: type: undivided ligulate or undivided spatulate: Ray floret: length/width ratio	Seulement les variétés avec fleur ligulée : type : ligulé non découpé ou spatulé non découpé : Fleur ligulée : rapport longueur/largeur	Nur Sorten mit Zungenblüte: Typ: zungenförmig ungelappt oder spatelförmig ungelappt: Zungenblüte: Verhältnis Länge/Breite	Sólo variedades con flor ligulada: tipo: ligulado no dividido o espatulado no dividido: Flor ligulada: relación longitud/anchura		
	very low	très bas	sehr klein	muy baja	GFLEUWHMTN	1
	very low to low	très bas à bas	sehr klein bis klein	muy baja a baja		2
	low	bas	klein	baja	Real Dream	3
	low to medium	bas à moyen	klein bis mittel	baja a media		4
	medium	moyen	mittel	media		5
	medium to high	moyen à élevé	mittel bis groß	media a alta	REGLO	6
	high	élevé	groß	alta		7
	high to very high	élevé à très élevé	groß bis sehr groß	alta a muy alta	Angel	8
	very high	très élevé	sehr groß	muy alta		9

	English		français		deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
24. (*)	PQ	VG		(b), (c)				
	Ray floret: color		Fleur ligulée : couleur		Zungenblüte: Farbe	Flor ligulada: color		
	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)		
25.	PQ	VG		(b), (c)				
	Ray floret: color of tip		Fleur ligulée : couleur de l'extrémité		Zungenblüte: Farbe der Spitze	Flor ligulada: color de la punta		
	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)		
26. (*)	PQ	VG		(b), (c)				
	<u>Only varieties with ray floret: type: undivided ligulate or undivided spatulate:</u> Ray floret: longitudinal axis		<u>Seulement les variétés avec fleur ligulée : type : ligulé non découpé ou spatulé non découpé :</u> Fleur ligulée : axe longitudinal		Nur Sorten mit Zungenblüte: Typ: zungenförmig ungelappt oder spatelförmig ungelappt: Zungenblüte: Längsachse	Sólo variedades con flor ligulada: tipo: ligulado no dividido o espatulado no dividido: Flor ligulada: eje longitudinal		
	incurved		incurvé		aufgebogen	incurvado	REGLO	1
	straight		droit		gerade	recto	Real Sunbeam	2
	recurved		recourbé		zurückgebogen	recurvado	Daisy Duke	3
27.	QN	VG	(+)	(b), (c)				
	Ray floret: degree of curvature		Fleur ligulée : degré de courbure		Zungenblüte: Stärke der Biegung	Flor ligulada: grado de curvatura		
	very weak		très faible		sehr gering	muy débil	REGLO	1
	weak		faible		gering	débil		2
	medium		moyen		mittel	medio	Luna	3
	strong		fort		stark	fuerte	LEUZ0003	4
	very strong		très fort		sehr stark	muy fuerte	LEUZ0001	5
28. (*)	PQ	VG	(+)	(b), (c)				
	<u>Only varieties with ray floret: type: undivided ligulate or undivided spatulate:</u> Ray floret: shape of apex		<u>Seulement les variétés avec fleur ligulée : type : ligulé non découpé ou spatulé non découpé :</u> Fleur ligulée : forme de l'apex		Nur Sorten mit Zungenblüte: Typ: zungenförmig ungelappt oder spatelförmig ungelappt: Zungenblüte: Form des Apex	Sólo variedades con flor ligulada: tipo: ligulado no dividido o espatulado no dividido: Flor ligulada: forma del ápice		
	acute		aiguë		spitz	aguda	Becky	1
	rounded		arrondie		abgerundet	redondeada	REGLO	2
	truncate		tronquée		gerade	truncada	Real Sunbeam	3

	English		français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
29.	QN	VG					
	Ray floret: number of indentations	Fleur ligulée : nombre de denticulations	Zungenblüte: Anzahl Einschnitte	Florida ligulada: número de incisiones			
	absent or very few	absent ou très petit	fehlend oder sehr gering	ausente o muy bajo		1	
	few	petit	gering	bajo	Becky	2	
	medium	moyen	mittel	medio	Luna	3	
	many	élevé	hoch	alto		4	
	very many	très élevé	sehr hoch	muy alto	Osiris Neige	5	
30. (*)	PQ	VG	(+)	(b), (c)			
	Ray floret: depth of indentations	Fleur ligulée : profondeur des denticulations	Zungenblüte: Tiefe der Einschnitte	Flor ligulada: profundidad de las incisiones			
	all shallow	toutes peu profondes	alle flach	todas pocos profundas	Daisy Duke	1	
	mainly shallow, some medium or deep	principalement peu profondes, certaines moyennes ou profondes	überwiegend flach, einige mittel oder tief	principalmente poco profundas, algunas medias o profundas	Luna	2	
	mainly medium	principalement moyennes	überwiegend mittel	principalmente medias	Macaroon	3	
	some medium, some deep	certaines moyennes, d'autres profondes	einige mittel, einige tief	algunas medias, algunas profundas	LaSpider	4	
	all deep	toutes profondes	alle tief	todas profundas	Engelina	5	
31.	PQ	VG	(+)	(b)			
	<u>Only varieties with flower head: type: single or semi-double: Disc: color before anthesis</u>	<u>Seulement les variétés avec capitule : type : simple ou semi-double : Disque : couleur avant l'anthèse</u>	<u>Nur Sorten mit Blütenstand: Typ: einfach oder halbgefüllt: Scheibe: Farbe vor der Blüte</u>	<u>Sólo variedades con capítulo: tipo: sencillo o semidoble: Disco: color antes de la antesis</u>			
	yellow green	vert-jaune	gelbgrün	verde amarillento	Real Galaxy	1	
	yellow	jaune	gelb	amarillo	Sunrimaiapy	2	
	yellow orange	orange-jaune	gelborange	naranja amarillento	Real Sunbeam	3	
32. (*)	PQ	VG	(+)	(b)			
	<u>Only varieties with flower head: type: single or semi-double: Disc: color after anthesis</u>	<u>Seulement les variétés avec capitule : type : simple ou semi-double: Disque : couleur après l'anthèse</u>	<u>Nur Sorten mit Blütenstand: Typ: einfach oder halbgefüllt: Scheibe: Farbe nach der Blüte</u>	<u>Sólo variedades con capítulo: tipo: sencillo o semidoble: Disco: color después de la antesis</u>			
	white	blanc	weiß	blanco	Angel	1	
	yellow	jaune	gelb	amarillo	REGLO	2	
	yellow orange	orange-jaune	gelborange	naranja amarillento	Real Sunbeam	3	

	English		français		deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota	
33.	QN	MG/MS/VG	(b)						
Only varieties with flower head: type: single or semi-double: Disc: number of ray florets within disc	Seulement les variétés avec capitule : type : simple ou semi-double: Disque : nombre de fleurs ligulées à l'intérieur du disque	Nur Sorten mit Blütenstand: Typ: einfach oder halbgefüllt; Scheibe: Anzahl Zungenblüten innerhalb der Scheibe	Sólo variedades con capítulo: tipo: sencillo o semidoble: Disco: número de flores liguladas dentro del disco						
	absent or few	absent ou petit	fehlend oder gering	ausente o bajo	Daisy Duke	1			
	medium	moyen	mittel	medio	Macaroon	2			
	many	élévé	hoch	alto		3			
34.	QN	MG/MS/VG	(+)	(b)					
Only varieties with flower head: disc type: anemone: Disc floret: length	Seulement les variétés avec capitule : type de disque : anémone : Fleuron : longueur	Nur Sorten mit Blütenstand: Scheibentyp: anemonenförmig: Scheibenblüte: Länge	Sólo variedades con capítulo: tipo de disco: anémona: Flósculo: longitud						
	very short	très courte	sehr kurz	muy corta	Angel	1			
	short	courte	kurz	corta		2			
	medium	moyenne	mittel	media	REGLO	3			
	long	longue	lang	larga		4			
	very long	très longue	sehr lang	muy larga		5			

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

Unless otherwise indicated, all observations should be made at the time of full flowering.

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

- (a) Observations should be made on fully developed leaves from the middle third of the stem, and, unless otherwise indicated, on the upper surface.
- (b) Observations should be made on fresh, fully open flowers. In the case of single and semi-double flower head types, 2 or 3 rows of disc florets should have opened.
- (c) Observations should be made on ray florets from the outer rows, and, unless otherwise indicated, on the upper surface.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: height

Observation should be made from the surface of the growing medium to the highest point of the plant.

Ad. 2: Plant: density

Observations should be made taking into account the stems, leaves and flowers.



2
sparse



3
medium



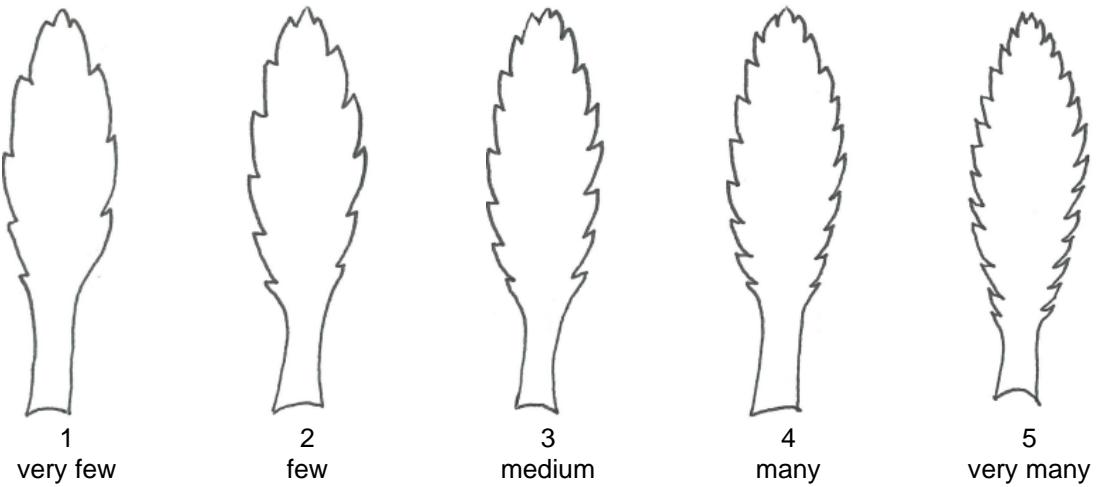
4
dense

Ad. 3: Stem: pubescence

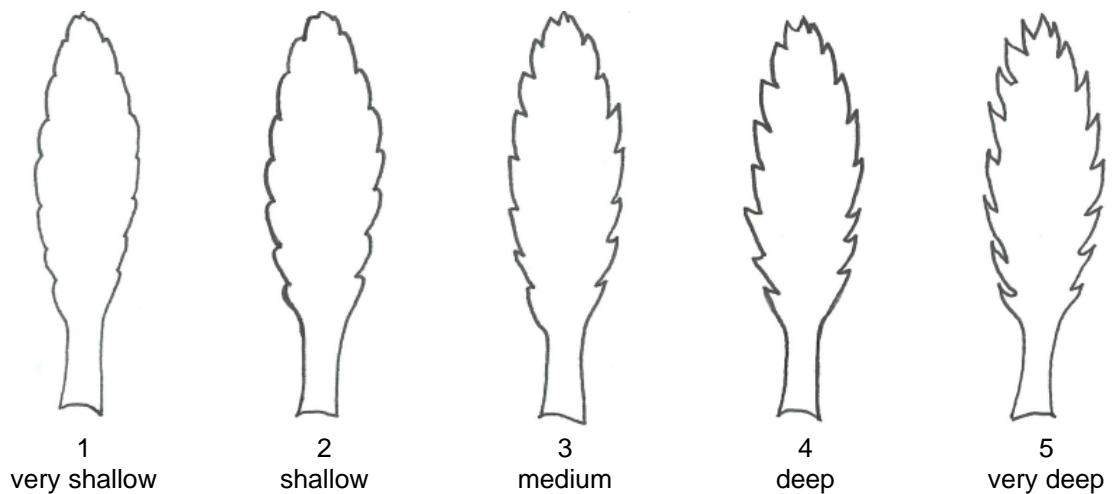
Observations should be made in the middle third of the stem.



Ad. 8: Leaf: number of indentations of margin



Ad. 9: Leaf: depth of indentations of margin



Ad. 10: Peduncle: length



Ad. 11: Flower bud: color

Observations should be made on the outer side of the ray florets just before the bud opens.

Ad. 12: Flower head: type

A single flower head has less than 2 full rows of ray florets, a semi-double flower head has 2 or more rows of ray florets and a clearly defined disc, a double flower head has many rows of ray florets and the disc florets are not clearly defined into a disc or not visible.



1
single



2
semi-double



3
double

Ad. 13: Only varieties with flower head: type: single or semi-double: Flower head: disc type

Varieties with anemone disc type are where the disc florets are of a petaloid type. Varieties with daisy disc may have additional ray florets within the disc but these are not modified disc florets. The illustration below shows examples of varieties with daisy type disc with additional ray florets (top), and without additional ray florets (bottom). For note 2, the illustrations show examples of varieties with anemone disc but with different lengths of disc florets, very short (top), and medium (bottom).



1
daisy

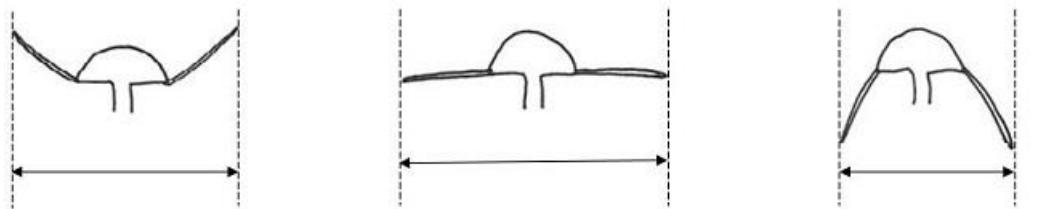


2
anemone

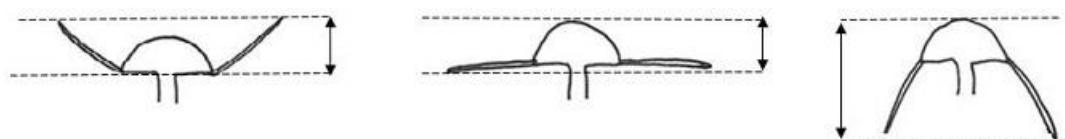


Ad. 14: Flower head: diameter

Observations should be made on the natural diameter of the flower head.



Ad. 15: Flower head: height

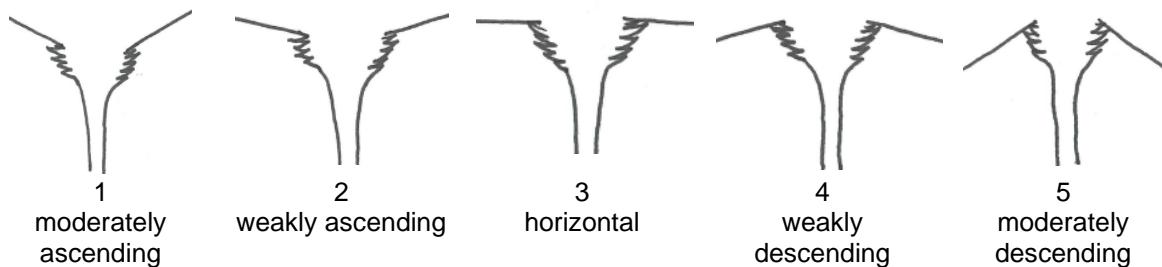


Ad. 16: Only varieties with flower head: type: single or semi-double: Flower head: disc diameter relative to flower head diameter

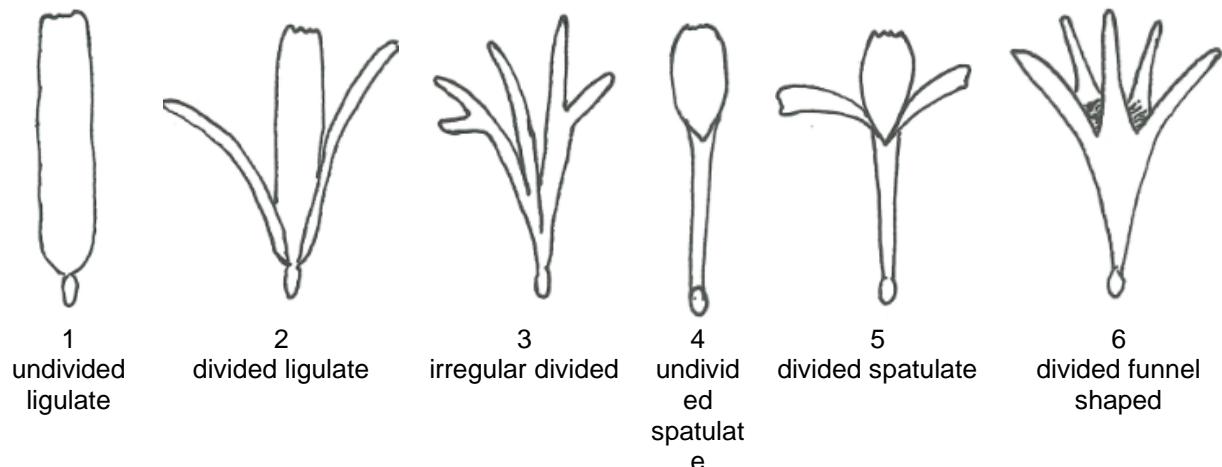
Observations should be made excluding any extra ray florets that are present in the disc.



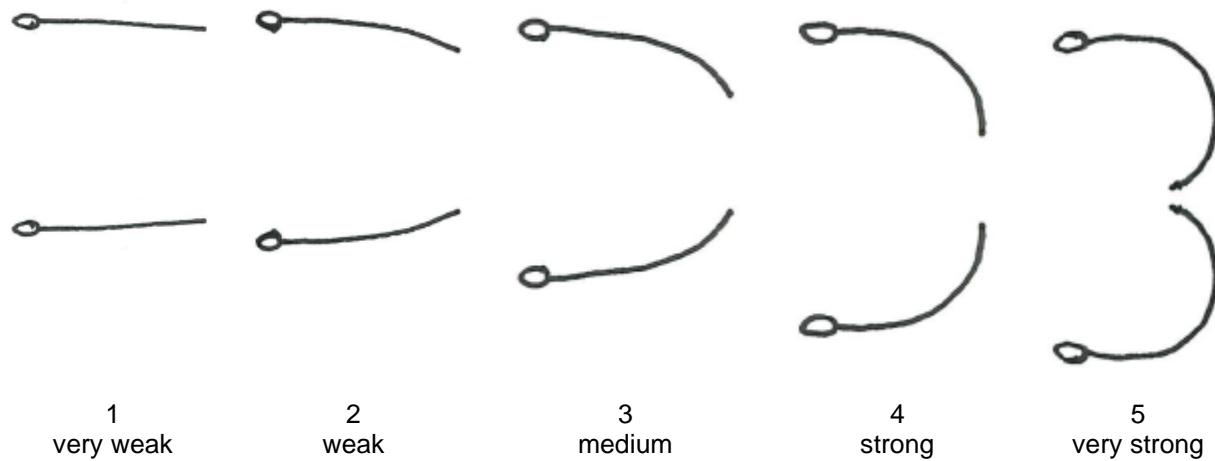
Ad. 19: Flower head: attitude of ray florets at base



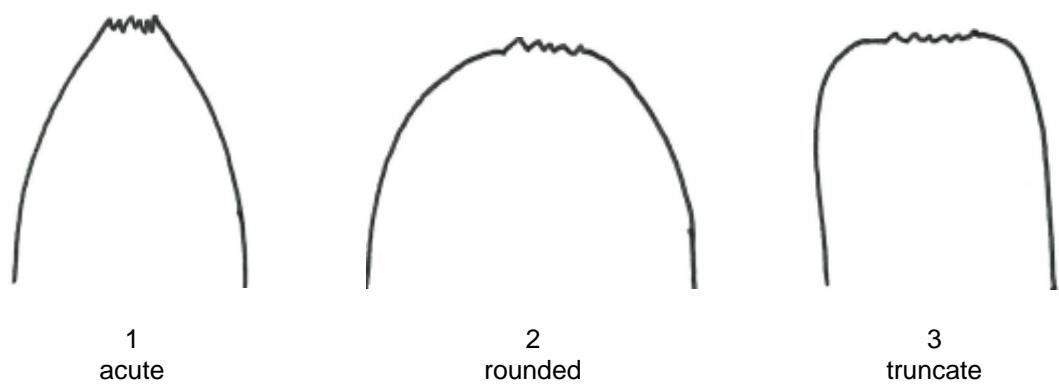
Ad. 20: Ray floret: type



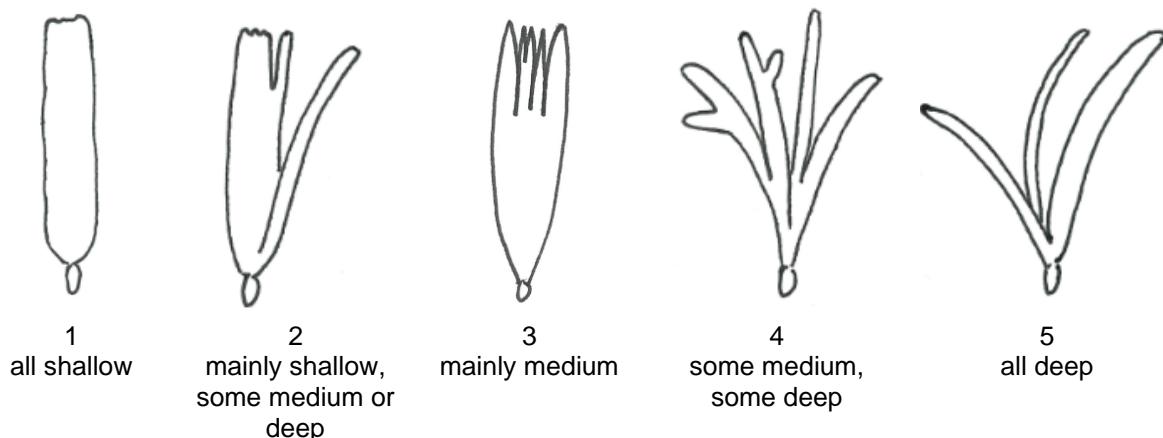
Ad. 27: Ray floret: degree of curvature



Ad. 28: Only varieties with ray floret: type: undivided ligulate or undivided spatulate: Ray floret: shape of apex



Ad. 30: Ray floret: depth of indentations



Ad. 31: Only varieties with flower head: type: single or semi-double: Disc: color before anthesis

Observations should be made on the part of the disc that has not started to dehisce.

Ad. 32: Only varieties with flower head: type: single or semi-double: Disc: color after anthesis

Observations should be made on the part of the disc where anthers have started to dehisce.

Ad. 34: Only varieties with flower head: disc type: anemone: Disc floret: length

Observations should be made on the florets in the outer 2 or 3 rows of the disc.

9. Literature

Brickell, C. 2016: The Royal Horticultural Society A - Z Encyclopedia of Garden Plants. Dorling Kindersley, London, GB, pp. 616 to 617.

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	Botanical name	<i>Leucanthemum</i> Mill.
1.2	Common name	Leucanthemum
1.3	Species (please indicate):	
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:
#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 variety)		
(.....)	x	(.....)
female parent	male parent	
(b) partially known cross	[]	
(please state known parent variety(ies))		
(.....)	x	(.....)
female parent	male parent	
(c) unknown cross	[]	
4.1.2 Mutation	[]	
(please state parent variety)		
<div style="border: 1px solid black; height: 100px;"></div>		
4.1.3 Discovery and development	[]	
(please state where and when discovered and how developed)		
<div style="border: 1px solid black; height: 100px;"></div>		
4.1.4 Other	[]	
(Please provide details)		
<div style="border: 1px solid black; height: 100px;"></div>		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

4.2.2 Vegetative propagation

- (a) Cuttings
- (b) *In vitro* propagation
- (c) Division
- (d) Other (state method)

[]
[]
[]
[]

4.2.3 Other

(Please provide details)

[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:																																																																																																
<p>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).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Characteristics</th> <th style="width: 33%;">Example Varieties</th> <th style="width: 33%;">Note</th> </tr> </thead> <tbody> <tr> <td>5.1 Plant: height (1)</td> <td></td> <td></td> </tr> <tr> <td>very short</td> <td></td> <td style="text-align: right;">1 []</td> </tr> <tr> <td>very short to short</td> <td>Luna</td> <td style="text-align: right;">2 []</td> </tr> <tr> <td>short</td> <td>Sunrimaiapy</td> <td style="text-align: right;">3 []</td> </tr> <tr> <td>short to medium</td> <td></td> <td style="text-align: right;">4 []</td> </tr> <tr> <td>medium</td> <td>REGLO</td> <td style="text-align: right;">5 []</td> </tr> <tr> <td>medium to tall</td> <td></td> <td style="text-align: right;">6 []</td> </tr> <tr> <td>tall</td> <td>Becky</td> <td style="text-align: right;">7 []</td> </tr> <tr> <td>tall to very tall</td> <td></td> <td style="text-align: right;">8 []</td> </tr> <tr> <td>very tall</td> <td></td> <td style="text-align: right;">9 []</td> </tr> <tr> <td>5.2 Flower head: type (12)</td> <td></td> <td></td> </tr> <tr> <td>single</td> <td>Angel</td> <td style="text-align: right;">1 []</td> </tr> <tr> <td>semi-double</td> <td>Real Sunbeam, REGLO</td> <td style="text-align: right;">2 []</td> </tr> <tr> <td>double</td> <td>Luna</td> <td style="text-align: right;">3 []</td> </tr> <tr> <td>5.3 Only varieties with flower head: type: single or semi-double: Flower head: disc type (13)</td> <td></td> <td></td> </tr> <tr> <td>daisy</td> <td>Real Sunbeam</td> <td style="text-align: right;">1 []</td> </tr> <tr> <td>anemone</td> <td>REGLO</td> <td style="text-align: right;">2 []</td> </tr> <tr> <td>5.4 Ray floret: type (20)</td> <td></td> <td></td> </tr> <tr> <td>undivided ligulate</td> <td>GFLEUWHMTN</td> <td style="text-align: right;">1 []</td> </tr> <tr> <td>divided ligulate</td> <td>Luna</td> <td style="text-align: right;">2 []</td> </tr> <tr> <td>irregular divided</td> <td>Real Galaxy</td> <td style="text-align: right;">3 []</td> </tr> <tr> <td>undivided spatulate</td> <td>Doleuswedaso</td> <td style="text-align: right;">4 []</td> </tr> <tr> <td>divided spatulate</td> <td>Lacrosse</td> <td style="text-align: right;">5 []</td> </tr> <tr> <td>divided funnel shaped</td> <td>Osiris Neige</td> <td style="text-align: right;">6 []</td> </tr> <tr> <td>5.5(i) Ray floret: color (24)</td> <td></td> <td></td> </tr> <tr> <td colspan="3">RHS colour chart (indicate reference number)</td> </tr> <tr> <td>5.5(ii) Ray floret: color (24)</td> <td></td> <td></td> </tr> <tr> <td>white</td> <td>REGLO</td> <td style="text-align: right;">1 []</td> </tr> <tr> <td>light yellow</td> <td>Macaroon</td> <td style="text-align: right;">2 []</td> </tr> <tr> <td>medium yellow</td> <td>Real Sunbeam</td> <td style="text-align: right;">3 []</td> </tr> <tr> <td>other (please specify)</td> <td></td> <td style="text-align: right;">[]</td> </tr> </tbody> </table>			Characteristics	Example Varieties	Note	5.1 Plant: height (1)			very short		1 []	very short to short	Luna	2 []	short	Sunrimaiapy	3 []	short to medium		4 []	medium	REGLO	5 []	medium to tall		6 []	tall	Becky	7 []	tall to very tall		8 []	very tall		9 []	5.2 Flower head: type (12)			single	Angel	1 []	semi-double	Real Sunbeam, REGLO	2 []	double	Luna	3 []	5.3 Only varieties with flower head: type: single or semi-double: Flower head: disc type (13)			daisy	Real Sunbeam	1 []	anemone	REGLO	2 []	5.4 Ray floret: type (20)			undivided ligulate	GFLEUWHMTN	1 []	divided ligulate	Luna	2 []	irregular divided	Real Galaxy	3 []	undivided spatulate	Doleuswedaso	4 []	divided spatulate	Lacrosse	5 []	divided funnel shaped	Osiris Neige	6 []	5.5(i) Ray floret: color (24)			RHS colour chart (indicate reference number)			5.5(ii) Ray floret: color (24)			white	REGLO	1 []	light yellow	Macaroon	2 []	medium yellow	Real Sunbeam	3 []	other (please specify)		[]
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tall	Becky	7 []																																																																																																
tall to very tall		8 []																																																																																																
very tall		9 []																																																																																																
5.2 Flower head: type (12)																																																																																																		
single	Angel	1 []																																																																																																
semi-double	Real Sunbeam, REGLO	2 []																																																																																																
double	Luna	3 []																																																																																																
5.3 Only varieties with flower head: type: single or semi-double: Flower head: disc type (13)																																																																																																		
daisy	Real Sunbeam	1 []																																																																																																
anemone	REGLO	2 []																																																																																																
5.4 Ray floret: type (20)																																																																																																		
undivided ligulate	GFLEUWHMTN	1 []																																																																																																
divided ligulate	Luna	2 []																																																																																																
irregular divided	Real Galaxy	3 []																																																																																																
undivided spatulate	Doleuswedaso	4 []																																																																																																
divided spatulate	Lacrosse	5 []																																																																																																
divided funnel shaped	Osiris Neige	6 []																																																																																																
5.5(i) Ray floret: color (24)																																																																																																		
RHS colour chart (indicate reference number)																																																																																																		
5.5(ii) Ray floret: color (24)																																																																																																		
white	REGLO	1 []																																																																																																
light yellow	Macaroon	2 []																																																																																																
medium yellow	Real Sunbeam	3 []																																																																																																
other (please specify)		[]																																																																																																

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6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Plant: height</i>	<i>short</i>	<i>medium</i>
Comments:			

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<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 <input type="checkbox"/> No <input type="checkbox"/></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 <input type="checkbox"/> No <input type="checkbox"/></p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p> <p>A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.</p> <p>The key points to consider when taking a photograph of the candidate variety are:</p> <ul style="list-style-type: none">• Indication of the date and geographic location• Correct labeling (breeder's reference)• Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)" <p>Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/). [The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]</p>		

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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.

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]