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PORTULACA

UPOV Code(s):

PORTU_GRA; PORTU_OLE; ORTU_UMB

Portulaca grandiflora Hook.; Portulaca oleracea L.; Portulaca umbraticola Kunth

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Germany to be considered by the Enlarged Editorial Committee at its meeting, to be held in Geneva on March 24, 2020

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
Portulaca grandiflora Hook.				
Portulaca oleracea L.	Portulaca	Pourpier	Portulak	Verdolaga
Portulaca umbraticola Kunth				

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.]

TABLE OF CONTENTS PAGE Number of Growing Cycles.....3 3 1 3.2 3.3 3.4 3.5 4.1 4.2 4.3 Stability......5 6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS......7 6.1 62 6.3 64 Legend 8 7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE 8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS.......14 82

1. Subject of these Test Guidelines

- 1.1 These Test Guidelines apply to all varieties of *Portulaca grandiflora* Hook., *Portulaca oleracea* L. and *Portulaca umbraticola* Kunth.
- 1.2 Guidance on the use of Test Guidelines for interspecific hybrids that are not explicitly covered by Test Guidelines is provided in document TGP/13 "Guidance for New Types and Species".
- 1.3 In the case of vegetable varieties, in particular, it may be necessary to use additional characteristics or additional states of expression to those included in the Table of Characteristics in order to examine Distinctness, Uniformity and Stability.

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

vegetatively propagated varieties: 15 rooted cuttings seed-propagated varieties: a sufficient quantity of seed to produce 40 plants.

In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.

- 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 In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 15 plants.
- 3.4.2 In the case of seed-propagated varieties, each test should be designed to result in a total of at least 40 plants.
- 3.4.3 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. <u>Assessment of Distinctness, Uniformity and Stability</u>
- 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

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

In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation 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 nonlinear 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 and cross-pollinated seed-propagated varieties. For varieties with other types of propagation the recommandation 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 15 plants, 1 off-type is allowed.
- 4.2.4 The assessment of uniformity for seed-propagated should be according to the recommendations for cross-pollinated varieties 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 or 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) Shoot: attitude (characteristic 2)
 - (b) Flower: type (characteristic 11)
 - (c) Flower: diameter (characteristic 13)
 - (d) Petal: main color (characteristic 17) with the following groups:
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: yellow orange
 - Gr. 4: orange
 - Gr. 5: pink
 - Gr. 6: red
 - Gr. 7: purple
 - Gr. 8: violet
 - (e) Petal: secondary color (characteristic 18) with the following groups:
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: orange
 - Gr. 4: orange brown
 - Gr. 5: pink
 - Gr. 6: red
 - Gr. 7: purple
 - Gr. 8: violet
 - (f) Petal: distribution of secondary color (characteristic 19)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

- 6. Introduction to the Table of Characteristics
- 6.1 Categories of Characteristics
- 6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

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

State	Note
small	3
medium	5
large	7

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

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

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

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

6.4 Example Varieties

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

6.5 Legend

	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

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. <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. (*)	QN	VG						
	Plant:	number of s		: nombre de cations	Pflanze: Anzahl Triebe	Planta: número de tallos		
	few		petit		gering	bajo	LAZPRT 1502	3
	mediu	m	moyen		mittel	medio	Cindy	5
	many		élevé		groß	alto	LAZZDU 0807	7
2. (*)	QN	VG	(+)					
	Shoot	: attitude	Ramifi	cation : port	Trieb: Haltung	Tallo: porte		
	uprigh	t	dressé		aufrecht	erguido	Sunseeker Orange	1
	semi-u	ıpright	demi-d	ressé	halbaufrecht	semierguido	Pazzaz Deep Pink	3
	horizo	ntal	horizor	ntal	waagerecht	horizontal		5
	semi-t	railing	semi-re	etombant	halbhängend	semirrastrero	LAZPRT 1703	7
	trailing		retombant		hängend	rastrero	LAZPRT 1502	9
3.	QN	MS/VG						
	Shoot	: length	Ramifi longue	cation : eur	Trieb: Länge	Tallo: longitud		
	short		courte		kurz	corta	Sunseeker Orange	3
	mediu	m	moyenne		mittel	media		5
	long		longue		lang	larga	LAZPRT 1502	7
4. (*)	PQ	VG						- 1
-	Shoot	: color	Ramifi	cation : couleur	Trieb: Farbe	Tallo: color		
	light g	reen	vert cla	air	hellgrün	verde claro	Cindy	1
	mediu	m green	vert mo	oyen	mittelgrün	verde medio		2
	dark g	reen	vert for	ncé	dunkelgrün	verde oscuro		3
	light re	eddish brown	brun ro	ougeâtre clair	hellrötlichbraun	marrón rojizo claro		4
	mediu	m reddish brown	brun ro	ougeâtre moyen	mittelrötlichbraun	marrón rojizo medio	Sunseeker Orange	5
	dark re	eddish brown	brun ro	ougeâtre foncé	dunkelrötlichbraun	marrón rojizo oscuro	LAZZDU 1112	6
5.	QN	MS/VG		(a)				
	Leaf:	ength	Feuille	: longueur	Blatt: Länge	Hoja: longitud		
	short		courte		kurz	corta		3
	mediu	m	moyen	ne	mittel	media	LAZZDU 1112	5
	long		longue		lang	larga	LAZPRT 1507	7

TG/242/2(proj.3) Portulaca/Pourpier/Portulak/Verdolaga, 2020-02-05 10

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6. (*)	QN	MS/VG		(a)				
:	Leaf:	width	Feuille	e : largeur	Blatt: Breite	Hoja: anchura		
	very r	narrow	très ét	roite	sehr schmal	muy estrecha	Sunseeker Orange	1
	narro	w	étroite		schmal	estrecha		3
	mediu	ım	moyer	nne	mittel	media	LAZPRT 1507	5
	broad		large		breit	ancha	LAZPRT 1502	7
	very b	oroad	très la	rge	sehr breit	muy ancha		9
7. (*)	QL	VG		(a)			,	•
	Leaf:	variegation	Feuille	e : panachure	Blatt: Panaschierung	Hoja: variegación		
	abser	nt	absen	te	fehlend	ausente	LAZPRT 1507	1
	prese	nt	préser	nte	vorhanden	presente	Flare Cherry	9
8.	QN	VG		(a)			,	•
·		intensity of color		e : intensité de la ur verte	Blatt: Intensität der Grünfärbung	Hoja: intensidad del color verde		
	light		claire		hell	clara		1
	mediu	ım	moyer	nne	mittel	media	LAZZDU 1112	2
	dark	dark)	dunkel	oscura	Pazzaz Deep Pink	3
9. (*)	QN	VG	(+)	(a)				
		width of reddish n coloration on in	pigme	e : largeur de la entation brun âtre du bord	Blatt: Breite der rötlichbraunen Färbung am Rand	Hoja: anchura de la coloración marrón rojizo del borde		
	abser	absent or very narrow		te ou très étroite	fehlend oder sehr schmal	ausente o muy estrecha	DPAZORFLAR	1
	narro	W	étroite		schmal	estrecha		2
	mediu	ım	moyer	nne	mittel	media	LAZPRT 1507	3
	broad		large		breit	ancha	Pazzaz Deep Pink	4
	very b	oroad	très la	rge	sehr breit	muy ancha		5
10.	QN	VG		(a)				
	reddi	n coloration on	pigme	e : intensité de la entation brun âtre du bord	Blatt: Intensität der rötlichbraunen Färbung am Rand	Hoja: intensidad de la coloración marrón rojizo del borde		
	abser	nt or very weak	absen	te ou très faible	fehlend oder sehr gering	ausente o muy leve	DPAZORFLAR	1
	weak		faible		gering	leve	LAZPRT 1502	2
	mediu	ım	moyer	nne	mittel	media	LAZPRT 1507	3
	strong	9	forte		stark	intensa	Pazzaz Deep Pink	4
1								

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
11. (*)	QL	VG	(+)	(b)				
·	Flowe	r: type	Fleur	: type	Blüte: Typ	Flor: tipo		
	single		simple		einfach	simple	LAZZDU 1112	1
	double		double)	gefüllt	doble	Sunseeker Orange	2
	with pe		avec c	les staminodes ïdes	mit Nebenkronensta- minodien	con estaminodios petaloides	Cindy	3
12.	QN	VG	(+)			,		
•	Only varieties with Flower: type: single: Flower: shape in lateral view		Seulement les variétés avec Fleur : type : simple : Fleur : forme en vue latérale		Nur Sorten mit Blüte: Typ: einfach: Blüte: Form in Seitenansicht	Solo variedades con Flor: tipo: simple: Flor: forma en vista lateral		
	flat or slightly concave		plate o	ou légèrement ve	gerade oder leicht konkav	plana o ligeramente cóncava		1
	moderately concave		modérément concave		mäßig konkav	medianamente cóncava		2
	strongly concave		fortement concave		stark konkav	muy cóncava		3
13. (*)	QN	MS/VG		(b)				
·	Flower: diameter		Fleur	: diamètre	Blüte: Durchmesser	Flor: diámetro		
	small		petit		klein	pequeño	LAZPRT 1502	3
	mediur	n	moyen		mittel	medio	Pazzaz Deep Pink	5
	large		grand		groß	grande	KLEPO 12820	7
14. (*)	QN	VG	(+)	(b)				
	Only varieties with Flower: type: single: Flower: overlapping of petals		avec F	uchement des	Nur Sorten mit Blüte: Typ: einfach: Blüte: Überlappung der Blütenblätter	Solo variedades con Flor: tipo: simple: Flor: solapamiento de los pétalos		
	absent	or weak	absent ou faible		fehlend oder gering	nulo o leve	LAZZDU 1112	1
	mediur	n	moyer	1	mittel	medio	LAZZDU 0806	2
	strong		fort		stark	marcado	DPAZORFLAR	3
15.	QN	VG	(+)	(b)				
	Only varieties with Flower: type: single: Flower: conspicuousness of color at base		Seulement les variétés avec Fleur : type : simple: Fleur : netteté de la couleur à la base		Nur Sorten mit Blüte: Typ: einfach: Blüte: Ausprägung der Farbe an der Basis	Solo variedades con Flor: tipo: simple: Flor: visibilidad del color de la base		
	absent	or very weak	absen	te ou très faible	fehlend oder sehr gering	ausente o muy débil	LAZZDU 1112	1
	weak		faible		gering	debil		2
	mediur	n	moyer	nne	mittel	media	DPAZORFLAR	3
	strong		forte		stark	fuerte		4
	very st	rong	très fo	rte	sehr stark	muy fuerte	LAZPRT 1707	5

TG/242/2(proj.3) Portulaca/Pourpier/Portulak/Verdolaga, 2020-02-05 12

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16.	PQ	VG		(b)				
	Flowe	varieties with er: type: single: er: color at base	avec	ement les variétés Fleur : type : e: Fleur : couleur ase	Nur Sorten mit Blüte: <u>Typ: einfach</u> : Blüte: Farbe an der Basis	Solo variedades con Flor: tipo: simple: Flor: color de la base		
	yellow	rish	jaunâtre		gelblich	amarillento		1
	yellow margir	rish with dark n	jaunâ foncé	tre avec bord	gelblich mit dunklem Rand	amarillento con borde oscuro		2
	reddis	h	rouge	âtre	rötlich	rojizo		3
	brown	ish	brunâ	tre	bräunlich	amarronado		4
17. (*)	PQ	VG	(+)	(c)				•
·	Petal:	main color	Pétal princ	e : couleur ipale	Blütenblatt: Hauptfarbe	Pétalo: color principal		
	RHS Colour Chart (indicate reference number)			RHS des couleurs uer le numéro de nce)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
18. (*)	PQ	VG	(+)	(c)				•
3	Petal: secondary color		Pétale : couleur secondaire		Blütenblatt: Sekundärfarbe	Pétalo: color secundario		
	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)		
19. (*)	PQ	VG	(+) (c)					-
3		distribution of adary color	Pétale : répartition de la couleur secondaire		Blütenblatt: Verteilung der Sekundärfarbe	Pétalo: distribución del color secundario		
	mainly	at apex	princi l'extré	palement à mité	überwiegend an der Spitze	principalmente en el ápice		1
	at upp	er third	au tie	rs supérieur	im oberen Drittel	en el tercio superior		2
	irregul zone	ar along marginal		lière le long de la marginale	unregelmäßig entlang der Randzone	irregular en la zona del borde		3
	on late	eral marginal zone	sur la latéra	zone marginale le	an der seitlichen Randzone	en las zonas laterales del borde		4
	centra	l .	au ce	ntre	in der Mitte	central		5
	throug	hout	parto	ıt	überall	en la totalidad		6
20.	PQ	VG	(+)	(c)				
	Petal: tertiary color		Pétal tertia	e : couleur ire	Blütenblatt: Tertiärfarbe	Pétalo: color terciario		
	(indica	RHS Colour Chart (indicate reference number)		RHS des couleurs uer le numéro de nce)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		

TG/242/2(proj.3) Portulaca/Pourpier/Portulak/Verdolaga, 2020-02-05 13

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
21.	QN	MS/VG		(c)				
	Petal:	length	Pétale	: longueur	Blütenblatt: Länge	Pétalo: longitud		
	short		courte		kurz	corta	LAZPRT 1607	3
	mediu	ım	moyen	ne	mittel ı	media	Pazzaz Deep Pink	5
	long		longue		lang	larga	KLEPO 12820	7
22.	QN	MS/VG		(c)				II.
•	Petal:	width	Pétale	: largeur	Blütenblatt: Breite	Pétalo: anchura		
	narrow		étroite		schmal	estrecha	LAZPRT 1502	3
	medium		moyen	ne	mittel	media	Pazzaz Deep Pink	5
	broad		large		breit	ancha	KLEPO 12820	7
23. (*)	QN	VG	(+)	(c)				II.
:	Petal: emargination		Pétale : échancrure		Blütenblatt: Einkerbung	Pétalo: emarginación		
	absent or shallow		absente ou peu profonde		fehlend oder flach	nula o poco profunda	DPAZORFLAR	1
	mediu	ım	moyenne		mittel	medianamente profunda	LAZZDU 0807	2
	deep		profonde		tief	profunda	LAZZDU 0806	3
24. (*)	PQ	VG	(+)					
	color	oid staminodes: of outer nodes		ïdes : couleur aminodes	Nebenkronenstami- nodien: Farbe der äußeren Staminodien	Estaminodios petaloides: color de los estaminodios externos		
		Colour Chart ate reference er)		RHS des couleurs er le numéro de nce)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
25.	PQ	VG	(+)					
	Only varieties with Flower: type: with petaloid staminodes: Petal staminodes: color of inner staminodes		avec for avec or pétalo Stamin pétalo	nodes ïdes : couleur aminodes	Nur Sorten mit Blüte: Typ: mit Nebenkronen- staminodien: Nebenkronenstami- nodien: Farbe der inneren Staminodien	Solo variedades con Flor: tipo: con estaminodios petaloides: Estaminodios petaloides: color de los estaminodios internos		
		Colour Chart ate reference er)		RHS des couleurs er le numéro de nce)	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

Unless otherwise indicated, observations should be made one month after first flowering.

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

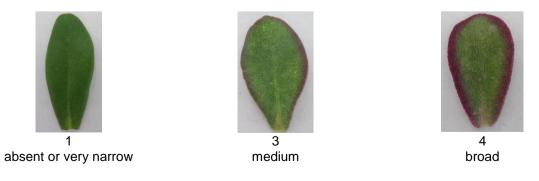
- (a) Observations should be made on the upper side of fully developed leaves from the middle part of a plant.
- (b) Observations should be made on the inner side of a fully open flower.
- (c) Observations should be made on the inner side. Unless otherwise indicated, observations on the petal of double flowers should be made on the outermost whorl of petals.

8.2 Explanations for individual characteristics

Ad. 2: Shoot: attitude



Ad. 9: Leaf: width of reddish brown coloration on margin



Ad. 11: Flower: type

A single flower has 4 to 6 petals and no petaloid staminodes. A double flower has more than 6 petals and no petaloid staminodes. For flowers with petaloid staminodes the number of petals is irrelevant.

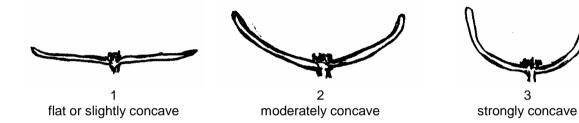






with petaloid staminodes

Ad. 12: Only varieties with Flower: type: single: Flower: shape in lateral view



Ad. 14: Only varieties with Flower: type: single: Flower: overlapping of petals

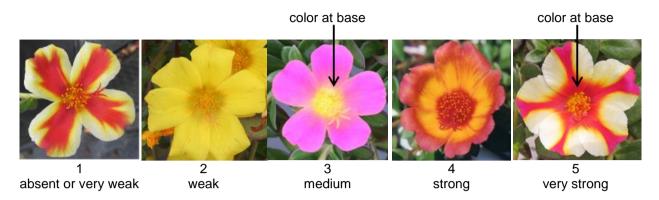






Ad. 15: Only varieties with Flower: type: single: Flower: conspicuousness of color at base

The conspicuousness is determined by the color contrast and the width of the contrasting ring. The innermost center of the flower is not observed.



Ad. 17: Petal: main color

The main color is the color with the largest surface area excluding the color at base. In cases where the areas of the main and the secondary color are too similar to reliably decide which color has the larger area, the darker color is considered to be the main color. The tertiary color is the color with the third largest area. In cases where the areas of the secondary and the tertiary color are too similar to decide which has the smaller area, the lighter color is considered to be the tertiary color.

Ad. 18: Petal: secondary color

See Ad. 17.

Ad. 19: Petal: distribution of secondary color

In varieties with bi- or multi-colored flowers the proportion of the main and the secondary color can change due to environmental conditions. Those flowers which have the predominant distribution should be described.

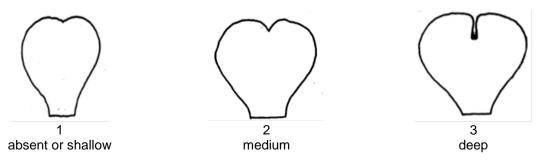
Arrow points to the secondary color:



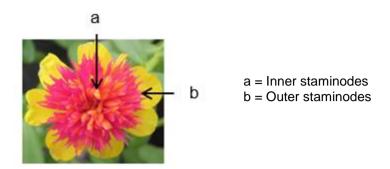
Ad. 20: Petal: tertiary color

See Ad. 17.

Ad. 23: Petal: emargination



Ad. 24: Petaloid staminodes: color of outer staminodes



Ad. 25: Only varieties with Flower: type: with petaloid staminodes: Petal staminodes: color of inner staminodes

See Ad. 24

9. <u>Literature</u>

No specific literature.

10. <u>Technical Questionnaire</u>

TECHN	NICAL Q	UESTIONNAIRE	Page	{x} of {y}	Reference Number:	
					Application date: (not to be filled in by the applicar	nt)
				AL QUESTIONN	AIRE n for plant breeders' rights	
1.	Subject	of the Technical Question		пит ант арриоано	THO PIANE STOCKED TIGHTS	
	1.1.1	Botanical name	Portulaca	grandiflora Hoo	k.	[]
	1.1.2	Common name				
	1.2.1	Botanical name	Portulaca	oleracea L.		[]
	1.2.2	Common name	Portulaca	ſ		
	1.3.1	Botanical name	Portulaca	<i>umbraticola</i> Kui	nth	[]
	1.3.2	Common name				
	1.4.1	Botanical name				[]
	1.4.2	Common name				
2.	Applica	nt				
	Name					
	Address	3				
	Telepho	one No.				
	Fax No.					
	E-mail a	address				
	Breeder applicar	r (if different from nt)				
3.	Propose	ed denomination and bre	eder's refer	ence		
	Propose (if availa	ed denomination able)				
	Breeder	r's reference				

ECH	NICAL Q	UESTIONNAIRE F	age {x} of {y}		Reference Num	ber:
#4.	Informa	tion on the breeding scheme a	nd propagation of	the va	riety	
	4.1	Breeding scheme				
	Variety	resulting from:				
	4.1.1	Crossing				
	(a)	controlled cross (please state parent varieties))			[]
		()	х	()
		female parent			male parent	
	(b)	partially known cross (please state known parent va	ariety(ies))			[]
		()	х	()
		female parent			male parent	
	(c)	unknown cross				[]
	4.1.2	Mutation (please state parent variety)				[]
	4.1.3	Discovery and development (please state where and where	n discovered and h	now de	eveloped)	[]
	4.1.4	Other (Please provide details)				[]

TECHNICAL C	UESTIONNAIRE	Page {x} of {y}	Reference Number:	
4.2	Method of propagating th	e variety		
4.2.1	Seed-propagated varietie	S		
(a) (b) (c) (d)	Self-pollination Cross-pollination Hybrid Other (please provide det	ails)	[] [] []	
4.2.2	Vegetative propagation			
(a) (b) (c)	Cuttings In vitro propagation Other (state method)		[] [] []	
4.2.3	Other (Please provide details)		[]	

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	Evenue Verieties	Nata
	Characteristics	Example Varieties	Note
5.1 (2)	Shoot: attitude		
	upright	Sunseeker Orange	1[]
	upright to semi-upright		2[]
	semi-upright	Pazzaz Deep Pink	3[]
	semi-upright to horizontal		4 []
	horizontal		5[]
	horizontal to semi-trailing		6[]
	semi-trailing	LAZPRT 1703	7[]
	semi-trailing to trailing		8[]
	trailing	LAZPRT 1502	9[]
5.2 (11)	Flower: type		
	single	LAZZDU 1112	1[]
	double	Sunseeker Orange	2[]
	with petaloid staminodes	Cindy	3[]
5.3 (13)	Flower: diameter		
	very small		1[]
	very small to small		2[]
	small	LAZPRT 1502	3[]
	small to medium		4 []
	medium	Pazzaz Deep Pink	5[]
	medium to large		6[]
	large	KLEPO 12820	7[]
	large to very large		8[]
	very large		9[]

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

	Characteristics	Example Varieties	Note
5.4(i) (17)	Petal: main color		
` ,	RHS Colour Chart (indicate reference number)		
5.4(ii) (17)	Petal: main color		
	white		1[]
	yellow		2[]
	yellow orange		3[]
	orange		4[]
	pink		5[]
	red		6[]
	purple		7[]
	violet		8[]
	other color (indicate)		9[]
5.5(i) (18)	Petal: secondary color		
	RHS Colour Chart (indicate reference number)		
5.5(ii) (18)	Petal: secondary color		
	white		1[]
	yellow		2[]
	orange		3[]
	orange brown		4[]
	pink		5[]
	red		6[]
	purple		7[]
	violet		8[]
	other color (indicate)		9[]
5.6 (19)	Petal: distribution of secondary color		
()	mainly at apex		1[]
	at upper third		2[]
	irregular along marginal zone		3[]
	on lateral marginal zone		4[]
	central		5[]
	throughout		6[]

TECHNICAL QUESTIONI	NAIRE	Page {x} of {y	} F	Reference Nu	mber:			
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								
Denomination(s) of variety(ies) similar to your candidate variety	variety(ies) similar to your your candidate variety differs the characteristic(s) for the the characteristic(s) for your							
Example	Flower: di	ameter	sm	all	medium			

TECHNICAL QUESTIONNAIRE	Page {x} of {v}	Reference Number:

#7.	Additio	Additional information which may help in the examination of the variety						
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?							
	Yes	[]	No	[]				
	(If yes,	please provide details)						
7.2	Are there any special conditions for growing the variety or conducting the examination?							
	Yes	[]	No	[]				
	(If yes,	please provide details)						
7.3	Other	information						
Techni supple The ke	cal Ques ments th ey points Indica Corred Good (minimu er guidan	stionnaire. The photograph was information provided in the to consider when taking a ption of the date and geograpp tabeling (breeder's referen quality printed photograph (rum 960 x 1280 pixels)"	will provide a visual illustrate Technical Questionnaire hotograph of the candida hic location ce) minimum 10 cm x 15 cm) s with the Technical Ques	and/or sufficient resolution electronic format				
				eveloping authorities' own test guidelines.]				

TEC	HNICA	L QUES	STIONNAIRE	Page {x} of	{y}	Reference	Number:		
8.	Autho	Authorization for release							
	(a) Does the variety require prior authorization for release unde environment, human and animal health?						on concerning	the protection of t	
		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 th	ne authoriza	tion.			
9. In	formati	on on pla	nt material to be ex	amined or submitt	ed for exam	nination			
roots	s and stocks, The pl	disease, scions tal	sion of a characterichemical treatment ken from different gerial should not have variety, unless the	it (e.g. growth ret growth phases of a ave undergone ar	ardants or tree, etc.	pesticides), e	effects of tissu	ue culture, difference controllers	
has	underg	one such	treatment, full detail vledge, if the plant	ails of the treatmer	nt must be o	given. In this	respect, pleas	e indicate below,	
	(a)	Mic	croorganisms (e.g.	virus, bacteria, phy	rtoplasma)		Yes []	No []	
	(b)	Ch	emical treatment (e	.g. growth retarda	nt, pesticide	e)	Yes []	No []	
	(c)	Tis	sue culture				Yes []	No []	
	(d)	Oth	ner factors				Yes []	No []	
	Ple	ase provi	de details for where	e you have indicate	ed "yes".				
10.	I he	ereby dec	lare that, to the bes	st of my knowledge	, the inform	ation provide	d in this form i	s correct:	
	Ар	plicant's n	ame						
	Si	gnature				Date			

[End of document]