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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

PORTULACA

UPOV Code: PORTU_OLE

(*Portulaca oleracea* L. including var. *sativa*)

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Japan

to be considered by the Technical Working Party for Ornamental Plants and Forest Trees at its thirty-ninth session, to be held in Fortaleza, Ceará State, Brazil, from August 28 to September 1, 2006

Alternative Names:*

Botanical name	English	French	German	Spanish
Portulaca oleracea L.	Portulaca, purslane	pourpier	Portulak	verdolaga

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

These Test Guidelines apply to all varieties of *Portulaca oleracea* L. including var. *sativa*

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 cutting or seeds.

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

- for vegetatively propagated varieties: 40 rooted cuttings;
- for seed propagated varieties: 600 seeds.

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. 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.

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

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. The plants should be grown in open field or in pots to observe the plant growth habit (characteristic 1). Unless otherwise stated, all observations should be made at the time of full flowering.

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

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

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 In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 20 plants.

3.4.3 In the case of seed propagated varieties, each test should be designed to result in a total of at least 40 plants.

3.5 Number of Plants / Parts of Plants to be Examined

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

3.5.2 Unless otherwise indicated, all observations on seed propagated varieties should be made on 20 plants or parts taken from each of 20 plants.

3.6 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.

4.2 Uniformity

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

4.2.2 For the assessment of uniformity 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 20 plants, one off-type is allowed.

4.2.3 For the assessment of uniformity of seed-propagated varieties which are cross-pollinated, the recommendations in the General Introduction for cross-pollinated varieties should be followed, as appropriate.

4.3 Stability

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. <u>Grouping of Varieties and Organization of the Growing Trial</u>

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) Flower : type (characteristic 15)
 - (b) Corolla lobe : main color of upper side (characteristic 19)
 - (c) Corolla lobe : secondary color of upper side (characteristic 20)
 - (d) Corolla lobe : <u>For bi and multi-colored varieties only</u> distribution of secondary color (characteristic 21)

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

6. <u>Introduction to the Table of Characteristics</u>

6.1 Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

6.2 States of Expression and Corresponding Notes

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 Types of Expression

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

6.4 Example Varieties

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

6.5 Legend

(*) Asterisked characteristic – see Chapter 6.1.2

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- QL: Qualitative characteristic see Chapter 6.3
- QN: Quantitative characteristic see Chapter 6.3
- PQ: Pseudo-qualitative characteristic see Chapter 6.3
- (a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

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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. (*) (+)	Plant: growth habit					
QL	semi-upright				Summer duet rose	1
	creeping				Yubi apricot	2
2.	Plant: height					
QN						
	low					3
	medium				Summer baby orange	5
	tall					7
3. (*) (+)	Shoot: length					
QN	short				Summer joy rose	3
	medium				Summer baby orange	5
	long					7
4.	Shoot: anthocyanin coloration					
(*)						
QN	absent or very weak				Sun white	1
	weak				Summer joy pink	3
	medium				Yubi apricot	5
	strong				Yubi rose	7
5. QN	Shoot: pubescence of axil					
	absent or very few				Summer baby white	1
	few				Yubi rose	3
	medium					5
	many					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6. (*)		Shoot: density					
QN		sparse					3
		medium				Summer baby pink	5
		dense				Summer baby orange	7
7. (*) (+)	(a)	Leaf: shape					
PQ		narrow elliptic				Sun yellow	1
		elliptic					2
		obovate				Summer baby orange	3
		broad obovate				Yubi apricot	4
8.	(a)	Leaf: length					
QN		short					3
		medium				Summer joy deep rose	5
_		long					7
9.	(a)	Leaf: width					
QN		narrow				Valencia ivory poach	3
		medium				Summer joy red	5
		broad					7
10. (*)	(a)	Leaf: color of upper side					
QN		light green				Summer baby pink	3
		medium green				Yubi apricot	5
		dark green					7
11. (*) QL	(a)	Leaf: anthocyanin coloration on margin of upper side	,				
		absent				Yubi apricot	1
		present				Summer baby orange	9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
12. (*)	(a)	Leaf: variegation of upper side					
QL		absent				Yubi apricot	1
		present				Flare cherry	9
13. (*)	(a)	Leaf: variegation color of upper side					
PQ		light green yellow				Flare cherry	1
		grayish green					2
		pink white				Valencia ivory poach	3
14. (*)	(a)	Leaf : petiole					
QL		absent				Sun white	1
_		present				Yubi rose	9
15. (*)	(b)	Flower: type					
(+)		single				Summer joy pink	1
QL		anemone like				Summer baby orange	2
G							
16. (*) (+)	(b) (d)	<u>Only varieties with</u> <u>flower type: single</u> : Flower: profile					
QN		flat				Summer duet rose	3
		flat-concave				Summer joy golden	5
		concave				Summer joy red	7
17. (*)	(b)	Flower: diameter					
QN		small				Valencia ivory poach	3
		medium				Yubi apricot	5
		large				Summer joy red	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18. QN	(b)	Flower: number					
		few				Yubi rose	3
		medium				Summer baby orange	5
		many				Rin hope	7
19. (*)	(c)	Corolla lobe: main color of upper side					
PQ		RHS Colour Chart					
G							
20. (*) QL	(c)	Corolla lobe: secondary color of upper side					
G		absent				Summer joy red	1
		present				Sun rise	9
21. (*) (+) QL	(c)	<u>Only for bi- and</u> <u>multi-colored</u> <u>varieties</u> : Corolla lobe: distribution of secondary color					
G		striped				Yubi apricot	1
		gradation				Summer duet ero	2
		variegated on margin				Summer duet rose	3
		variegated on tip					4
22. (*) PQ	(c)	<u>Only for bi- and</u> <u>multi-colored</u> <u>varieties</u> : Corolla lobe: secondary					
		color of upper side					
		RHS Colour Chart					
23. (*)	(c)	Corolla lobe: eye					
(+)		absent				Summer joy wine red	1
QL		present				Yubi apricot	9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
24.	(c)	Only varieties with					
(*)		<u>eve: present:</u> Corolla lobe: eved					
PQ		color of upper side					
		RHS Colour Chart					
25. (*)	(c)	Corolla lobe: shape					
(+)		type 1				Summer duet rose	1
PQ		type 2				Summer joy golden	2
		type 3				Summer duet ero	3
26. (*)	(c)	Corolla lobe: incision on tip					
QL		absent				Summer baby pink	1
QL		present				Yubi rose	9
27. (*) (+)	(c)	<u>Only varieties with</u> <u>incision on tip</u> : Corolla lobe: level of incision on tip					
QN		weak				Yubi apricot	3
		medium				Yubi rose	5
		strong					7
28.	(c)	Corolla lobe: length					
QN		short				Valencia ivory poach	3
		medium				Summer joy wine red	5
		long				Summer joy red	7
29.	(c)	Corolla lobe: width					
QN		narrow				Summer baby orange	3
		medium				Sono pink	5
		broad				Summer joy pink	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
30.		Calyx: anthocyanin coloration					
QL		absent				Sun white	1
		present				Yubi rose	9
31.	(c)	Style: anthocyanin coloration					
QN		absent or very weak				Sono cream	1
		weak				Valencia ivory poach	3
		medium				Yubi rose	5
		strong				Yubi apricot	7
32. (*)		Flowering: earliness					
QN		early				Summer baby lemon yellow	3
		medium				Summer joy ero	5
		late				Valencia ivory poach	7

8. <u>Explanations on the Table of Characteristics</u>

8.1 Explanations covering several characteristics

Unless otherwise noted, all characteristics should be observed at time of full flowering.

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

- (a) Observation on the leaf which should be made on fully expanded leaves from the middle third of a flowering stem.
- (b) Observations on flower should be made to choose one open flower from one plant at random for flower to adhere terminal of each shoot .
- (c) Observations on the corolla lobe which should be made on open flowers at anther dehiscence.
- (d) Observations on flower profile (exclude anemone like) should be made at morning to be quality which Flower closes by bee and the like.
- 8.2 Explanations for individual characteristics

Ad. 1: Plant : growth habit





2 creeping

Ad. 3: Shoot : length



length

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Ad. 7: Leaf : shape



narrow elliptic

2 elliptic

3 obovate

4 broad obovate

Ad. 15: Flower: type





1 single

2 anemone like

Ad. 16: Flower: profile(exclude anemone like)







7 concave

3 flat

5 flat-concave

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Ad. 21: Corolla lobe: For bi and multi-colored varieties only distribution of secondary color







Ad. 25: Corolla lobe: shape

type 1



type 3





9. <u>Literature</u>

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10. <u>Technical Questionnaire</u>

TEC	HNICAL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:
			Application date: (not to be filled in by the applicant)
	TEC to be completed in connection	HNICAL QUESTION ection with an application	NAIRE on for plant breeders' rights
1.	Subject of the Technical Ques	tionnaire	
1.1	Genus		
	1.1.1 Latin Name	ortulaca	
	1.1.2 Common name	ortulaca	
1.2	Species (please complete)		
	1.2.1 Latin Name		
	1.2.2 Common Name		
2.	Applicant		
	Name		
	Address		
	Telephone No.		
	Fax No.		
	E-mail address		
	Breeder (if different from app	licant)	

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TE	CHNI	CAL QI	UESTIONN	AIRE	Page $\{x\}$ of $\{y\}$	Reference Nu	mber:		
3.	3. Proposed denomination and breeder's reference								
	Pro (if a	posed d available	enomination e)	n					
	Bre	eder's r	eference						
4.	Info	rmation	on the bree	ding sch	neme and propagation	of the variety			
	4.1	Breedi	ng scheme						
		Variet	y resulting	from:					
	4.1.1 Crossing								
			(a) cont (ple	rolled cr ase state	ross parent varieties)		[]		
			(b) part (ple	ially kno ase state	own cross known parent variety	(ies))	[]		
			(c) unk	nown cro	OSS		[]		
		4.1.2	Mutation (please sta	ate paren	t variety)		[]		
		4.1.3	Discovery (please state and how c	and dev te where levelope	velopment e and when discovered d)	1	[]		
		4.1.4	Other (please pr	ovide de	tails)		[]		

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TECHNICAL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:
4.2 Method of propagating the	variety	
4.2.1 Vegetative propaga	ation	
(a) cuttings		[]
(b) <i>in vitro</i> propag	gation	[]
(c) other (state me	ethod)	[]
4.2.2 Seed		[]
4.2.3 Other (please provide det	tails)	[]

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TECI	HNICAL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:					
5. corre	5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).							
	Characteristics		Example Varieties	Note				
5.1 (1)	Plant : growth habit							
	semi-upright		Summer duet rose	1 []				
	creeping		Yubi apricot	2 []				
5.2 (15)	Flower : type							
	single		Summer joy pink	1 []				
	anemone like		Summer baby orange	2 []				
5.3 (17)	Flower : diameter							
	small		Valencia ivory poach	3 []				
	medium		Yubi apricot	5 []				
	large		Summer joy red	7 []				
5.4 (19)	Corolla lobe : main color of upper	side						
	RHS Colour Chart (indicate reference	ee number)						
5.5 (20)	Corolla lobe : secondary color of u	ipper side						
	absent		Summer joy red	1 []				
	present		Sun rise	9 []				
5.6 (21)	Only for bi- and multi-colored distribution of secondary color	varieties: Corolla lobe:						
	striped		Yubi apricot	1 []				
	gradation		Summer duet ero	2 []				
	variegated on margin		Summer duet rose	3 []				
	variegated on tip			4 []				

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TECHNICAL QUESTIONNAIRE		Page $\{x\}$ of $\{y\}$		Reference Number:		
6. Similar varieties Please use the followi	and difference	es from these box for co	e varieties mments to	o provide i	nformation on how your	
candidate variety differ (or are) most similar. examination of distinct	s from the va This inform ness in a more	riety (or var ation may f e efficient wa	rieties) wh help the e ay.	ich, to the l xamination	best of your knowledge, is authority to conduct its	
Denomination(s) of variety(ies) similar to your candidate variety	Character which your variety diffe similar va	istic(s) in candidate rs from the riety(ies)	Descr express character the s varie	ribe the ion of the ristic(s) for imilar ty(ies)	Describe the expression o the characteristic(s) for your candidate variety	
Example	Example Flower : diameter		medium		large	
Comments:						

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TEC	HNICA	L QUESTIONNAIRE	Page {x} of {y}	Reference Number:		
[#] 7.	Additional information which may help in the examination of the variety					
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?					
	Yes	[]	No []			
	(If yes,	, please provide details)				
7.2	Are there any special conditions for growing the variety or conducting the examination?					
	Yes	[]	No []			
	(If yes,	, please provide details)				
7.3	3 Other information					
A representative color photograph of the variety should accompany the Technical Questionnaire.						
8.	Autho	rization 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?					
	r	Yes []	No []			
	If the a	answer to (b) is yes, plea	use attach a copy of the	e authorization.		

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

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

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. is cor	0. I hereby declare that, to the best of my knowledge, the information provided in this form s correct:						
	Appli	cant's name					
	Signa	ture Date					

[End of document]