

TG/MOM(proj.1) ORIGINAL: English DATE: 2006-05-04

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA



BITTER GOURD

Momordica charantia L.

MOMOR_CHA

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 Vegetables (TWV) at its fortieth session to be held in Guanajuato, Guanajuato State, Mexico, from June 12 to 16, 2006

Alternative Names:*

Botanical name	English	French	German	Spanish
Momordica charantia L.	Bitter gourd, Bitter cucumber, Balsam pear, Bitter melon	Margose	Bittergurke	Coundianor

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 Momordica charantia L.

2. <u>Material Required</u>

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

- 2.2 The material is to be supplied in the form of seed.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

1,500 seeds

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 two independent growing cycles.

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.

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3.3.2 The recommended method of observing the characteristic is indicated by the following key in the second column of the Table 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

3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 36 plants, which should be divided between two or more replicates.

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 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations 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 The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.2.3 The assessment of uniformity for hybrid varieties, a population standard of 1% and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 36 plants, 2 off-types are allowed.

4.3 Stability

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

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new seed 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) Fruit: length (characteristic 14)
- (b) Fruit: diameter (characteristic 15)
- (c) Fruit: shape in longitudinal section (characteristic 16)
- (d) Fruit: color of skin (characteristic 17)
- (e) Fruit: size of tubercle (characteristic 20)

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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
- QL: Qualitative characteristic see Chapter 6.3
- QN: Quantitative characteristic see Chapter 6.3
- PQ: Pseudo-qualitative characteristic see Chapter 6.3

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- MG: single measurement of a group of plants or parts of plants see Chapter 3.3.1
- MS: measurement of a number of individual plants or parts of plants see Chapter 3.3.1
- VG: visual assessment by a single observation of a group of plants or parts of plants Chapter 3.3.1
- VS: visual assessment by observation of individual plants or parts of plants –see Chapter 3.3.1
- (a)-(g) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

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

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1.	VG	Cotyledon: intensity of green color					
QN	(a)	light				Miazaki-shiro-naga	3
		medium					5
		dark				Okinawa-ao-naga	7
2.	VG/ MS	Stem : length of internodes of main stem (at 15 th ~20 th node)					
QN	(b)	short				Okinawa-ao-chunaga	3
		medium				Sadowara-shiro-naga	5
		long				Miazaki-shiro-naga	7
3.	VG/ MS	Stem: thickness of main stem (as for characteristic 2)					
QN	(b)	thin					3
		medium				Miazaki-shiro-naga	5
		thick				Okinawa-tan-dai	7
4.	VG	Stem: number of side shoots					
QN	(b)	few				Sadowara-shiro-naga	3
		medium				Miazaki-shiro-naga	5
		many				Okinawa-ao-chunaga	7
5.	VG	Leaf blade: size					
QN	(c)	small				Kagoshima-shiro-naga	3
		medium				Okinawa-ao-naga	5
		large				Miazaki-shiro-naga	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.	VG	Leaf blade: intensity of green color					
QN	(c)	light				Sadowara-shiro-naga	3
		medium				Miazaki-shiro-naga	5
		dark				Okinawa-ao-chunaga	7
7 (*) (+)	VG	Leaf blade: shape of terminal lobe					
QN	(c)	narrow ellipitic					1
		ellipitic				Miazaki-shiro-naga	2
		broad ellipitic				Okinawa-ao-chuunaga	3
8. (*)	MS	Leaf blade : number of lobes					
QN	(c)	few					3
		medium				Sadowara-shiro-naga	5
		many					7
IL: It	seems	better to give fixed nu	umbers, 5, 7 and	19.			
9.	VG	Leaf blade: depth of lobing					
QN	(c)	shallow				Sadowara-shiro-naga	3
		medium				Kagoshima-shiro-naga	5
		deep				Okinawa-ao-chunaga	7
10.	VG/ MS	Petiole: length					
QN	(c)	short				Kagoshima-shiro-naga	3
		medium				Sadowara-shiro-naga	5
		long					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note, Nota
11.	MS	Flower: number of nodes up to the node with the 1 st female flower					
QN	(d)	few				Sadowara-shiro-naga	3
		medium				Miazaki-shiro-naga	5
		many				Okinawa-ao-chunaga	7
L: Tł	nis is a	plant characteristic.					
12.	VG/ MS	Ovary: length					
QN	(d)	short					3
		medium				Okinawa-ao-chunaga	5
		long				Miazaki-shiro-naga	7
13.	VG	Stigma : intensity of green color					
QN	(d)	light				Okinawa-shiro-naga	3
		medium				Onaga-nishaku	5
		dark				Okinawa-ao-chunaga	7
14. (*)	VG/ MS	Fruit : length					
QN	(e)	short				Okinawa-tandai	3
		medium				Okinawa-ao-chunaga	5
		long				Sadowara-shiro-naga	7
15. (*)	VG/ MS	Fruit: diameter					
QN	(e)	small				Miyazaki-shiro-naga	3
		medium				Onaga-nishaku	5
		large				Okinawa-ao-naga	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
16. (*) (+)	VG	Fruit: shape in longitudinal secti	on				
PQ	(e)	conical					1
		ovate					2
		spindle				Okinawa-ao-naga	3
		cylindrical				Sadowara-shiro-naga	4
[L: sir	ice the	shape is in section	ı, it is 2-dimentiona	l: triangular, ovate, sj	pindle-shaped, oblong		
17. (*)	VG	Fruit: color of ski	in				
PQ	(e)	white					1
		light green				Sadowara-shiro-naga	2
		medium green				Onaga-nishaku	3
		deep green				Okinawa-ao-naga	4
lL: pr	oposal	l to replace deep gi	reen by dark green.				
18. (*) (+)	VG	Fruit: shape of ba	ase				
PQ	(e)	acute				Miazaki-shiro-naga	1
		obtuse				Onaga-nishaku	2
		rounded				Okinawa-ao-chunaga	3
		flattened					4
19. (*) (+)	VG	Fruit: shape of ap	Dex				
PQ	(e)	acute				Miazaki-shiro-naga	1
		obtuse				Onaga-nishaku	2
		rounded				Okinawa-ao-chunaga	3
		flattened				Torapi, Verdure	

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
20. (*) (+)	VG	Fruit: size of tubercle					
QN	(e)	small				Okinawa-ao-chunaga	3
		medium				Miazaki-shiro-naga	5
		large				Sadowara-shiro-naga	7
IL: in	cucun	nber these are called	l "warts".				
21. (*)	VG	Fruit: shape of top of tubercle					
PQ	(e)	acute				Okinawa-ao-chunaga	1
		obutuse				Sadowara-shiro-naga	2
		rounded					3
IL: pr	opsal (to read "Fruit :sha	pe of top tip of tu	bercle".			
22.		Fruit: number of tubercles					
QN	(e)	few					3
		medium				Onaga-nishaku	5
		many				Okinawa-ao-chunaga	7
IL: i	n cucu	mber these are call	ed "warts".				
23.	VG	Fruit: spines on tubercles					
QL	(e)	absent				Ravana	1
		present				Indra	9
24. (*) (+)		Fruit: length of ridge					
QN	(e)	short				Okinawa-ao-chunaga	3
		medium				Sadowara-shiro-naga	5
		long					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
25. (*) (+)	VG	Fruit: color of skin at ripe stage					
QN		yellow					1
		orange					2
		reddish orange					3
26.	MS	Fruit: bitterness					
(+)							
QN	(e)	absent					1
		weakly expressed				Shiro-reishi	2
		strongly expressed				Sadowara-shiro-naga	3
27.	VG	Seed: size					
QN	(f)	small					3
		medium				Onaga-nishaku	5
		large				Sadowara-shiro-naga	7
28.	VG	Seed: intensity of brown color of testa	I				
QN	(f)	light				Sadowara-shiro-naga	3
		medium				Onaga-nishaku	5
		dark				Okinawa-shiro-naga	7
29.	VG	Seed: process of edge					
(+)		euge					
QN	(f)	small				Onaga-nishaku	3
		medium				Sadowara-shiro-naga	5
		large				Okinawa-ao-naga	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
30.	VG	Time of harvest maturity					
QN		early				Sadowara-shiro-naga	3
		medium				Onaga-nishaku	5
		late				Okinawa-ao-chunaga	7

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

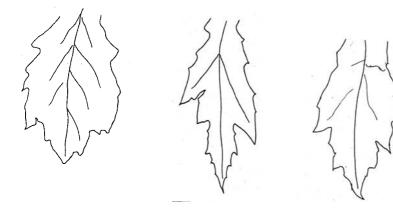
8.1 Explanations covering several characteristics

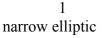
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) Cotyledon: should be observed just before the development of the first true leaf.
- (b) Stem: should be observed when plant is fully developed.
- (c) Leaf (blade, petiole): All observations on the leaf should be made on fully developed leaves, from the 15^{th} to $20^{\text{th.}}$ nodes.
- (d) Flower (flower, ovary, stigma): All observations on the flower should be made when the plant is fully developed.
- (e) Fruit: should be observed on the fruits at harvest maturity.
- (f) Seed: All observations on the seed should be made on fully developed and dry seed, after washing and drying in the shade.

8.2 *Explanations for individual characteristics*

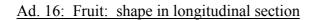
Ad. 7: Leaf blade: shape of terminal lobe

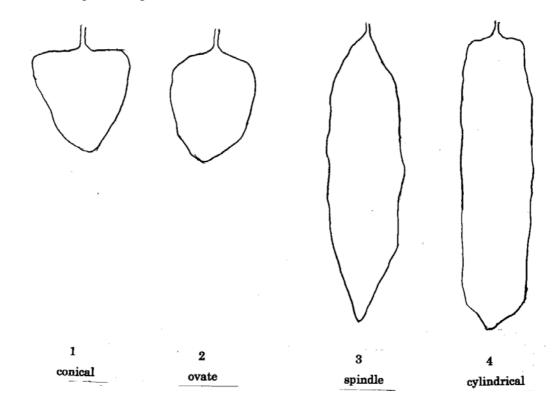




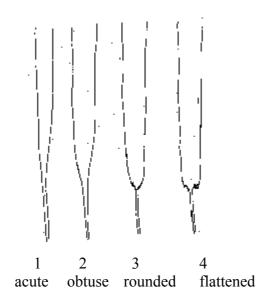
2 elliptic

3 broad elliptic

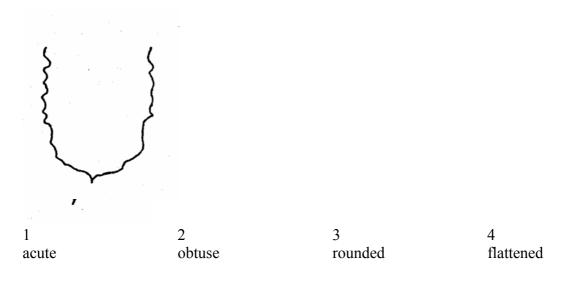




Ad. 18: Fruit: shape of base

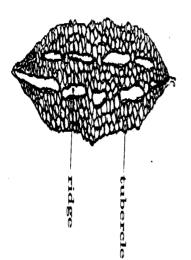


Ad.19: Fruit: shape of apex



Ad. 20: Fruit: size of tubercle

Ad. 24: Fruit: length of ridge



Ad. 26: Fruit: bitterness

The bitterness of the fruit should be observed by tasting the flesh of the middle part of the fruit at harvest maturity.

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Ad. 29: Seed: process of edge

process of edge م ه} Ş

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9. <u>Literature</u>

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10. <u>Technical Questionnaire</u>

TEC	HNICAL QUESTIONNAIRE	F	Page {x} of {y}	Reference Number:
				Application date: (not to be filled in by the applicant)
			NICAL QUESTIONN tion with an applicatio	VAIRE on for plant breeders' rights
1.	Subject of the Technical Que	esti	onnaire	
	1.1 Botanical name	Мо	<i>mordica charantia</i> L.	
	1.2 Common name Bitter Gourd			
2.	Applicant Name Address Telephone No. Fax No. E-mail address			
	Breeder (if different from ap	pli	cant)	
3.	Proposed denomination and	bre	eeder's reference	
	Proposed denomination (if available)			
	Breeder's reference			

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TECHNICAL QU	JESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Numbe	er:				
[#] 4. Information of	$^{\#}4$. Information on the breeding scheme and propagation of the variety							
4.1 Breedir	ng scheme							
"Varie	ety resulting from:							
"4.1.1	Crossing							
	"(a) controlled cr (please state	ross parent varieties)	[]				
	"(b) partially kno (please state	wn cross known parent variety([ies))]				
	"(c) unknown cro	DSS	[]				
"4.1.2	Mutation (please state paren	t variety)	[]				
"4.1.3	Discovery and dev (please state where and how developed	e and when discovered]]				
"4.1.4	Other (please provide de	tails)"	[]"				

 $^{^{\#}}$ Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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$E Page \{x\} of \{y\}$	Reference Number:		
variety			
l varieties			
"(a) Self-pollination			
"(b) Cross-pollination(i) population(ii) synthetic variety			
N 32 for example}	[]		
ovide details)"	[]		
ppagated varieties			
2}	[]		
"4.2.3 Other (please provide details)"			
	<pre>variety l varieties nation lination ation etic variety N 32 for example} ovide details)" opagated varieties 2}</pre>		

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TECH	HNICAL QUESTIONNAIRE Page {x} of {y} Reference	Number:	
	Characteristics of the variety to be indicated (the number ir sponding characteristic in Test Guidelines; please mark sponds).		
	Characteristics	Example Varieties	Note
5.1 (14)	Fruit: length		
	short	Okinawa-tandai	3[]
	medium	Okinawa-ao-chunaga	5[]
	long	Sadowara-shiro-naga	7[]
5.2 (15)	Fruit: diameter		
	small	Miyazaki-shiro-naga	3[]
	medium	Onaga-nishaku	5[]
	large	Okinawa-ao-naga	7[]
5.3 (16)	Fruit: shape in longitudinal section		
	conical		1[]
	ovate		2[]
	spindle	Okinawa-ao-naga	3[]
	cylindrical	Sadowara-shiro-naga	4[]
5.4 (17)	Fruit: color of skin		
	white		1[]
	light green	Sadowara-shiro-naga	2[]
	medium green	Onaga-nishaku	3[]
	deep green	Okinawa-ao-naga	4[]
5.5 (20)	Fruit: size of tubercle		
	small	Okinawa-ao-chunaga	3[]
	medium	Miazaki-shiro-naga	5[]
	large	Sadowara-shiro-naga	7[]

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

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	Characteristic(s) in	Describe the expression	Describe the
variety(ies) similar to	which your candidate	of the characteristic(s)	expression of the
your candidate variety	variety differs from the	for the similar	characteristic(s) for
	similar variety(ies)	variety(ies)	your candidate variety

Example:

Comments:

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TEC	HNICAL 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	Other information		
	Example 1 7.3.1Main use		
	 (a) seed [] (b) forage [] (c) other [] (please provide details) 		
	Example 2		
	7.3.1Main use		
	(a) garden plant[(b) pot plant[(c) cut-flower[(d) other[(please provide details)		
"A	representative color photograph of the variety should accompany the Technica		

Questionnaire."

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

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8. Autho	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 b	een obtained?			
	Yes []	No []			
If the	If the answer to (b) is yes, please attach a copy of the authorization.				
9. Inform	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. vir	us, bacteria, phytoplas	ma) Yes [] No []		
(b)	Chemical treatment (e.g.	growth retardant, pest	icide) Yes [] No []		
(c)	Tissue culture		Yes [] No []		
(d)	Other factors		Yes [] No []		
Please	Please provide details for where you have indicated "yes".				
"9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?					
Yes []					
(p	(please provide details as specified by the Authority)				
No	No []"				

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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]