

TG/CORIA(proj.3) ORIGINAL: English DATE: 2012-05-03

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS Geneva

DRAFT

CORIANDER

UPOV Code: CORIA_SAT

Coriandrum sativum L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Brazil

to be considered by the

Technical Working Party for Vegetables at its forty-sixth session, to be held near the City of Venlo, Netherlands, from June 11 to 15, 2012

Alternative Names:*

Botanical name	English	French	German	Spanish
Coriandrum sativum L.	Coriander,Cilantro, Collender, Chinese parsley	Coriander, Persil arabe	Koriander, Wanzedill, Schiwindelkorn	Coriandro, Cilantro, Cilandrio, Culantro

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 Coriandrum sativum 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:

100 g or 10,000 seeds 50g or 5,000 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.

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 in Chapter 8 [...].

3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 60 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 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 / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 40 plants or parts taken from each of 40 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

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

- MG: single measurement of a group of plants or parts of plants
- MS: measurement of a number of individual plants or parts of plants
- VG: visual assessment by a single observation of a group of plants or parts of plants
- VS: visual assessment by observation of individual plants or parts of plants

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

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

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

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

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

4.2 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.

4.3 Stability

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

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

4.3.3 Where appropriate, or in cases of doubt, the stability of a hybrid variety may, in addition to an examination of the hybrid variety itself, also be assessed by examination of the uniformity and stability of its parent lines.

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:

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.

- see Chapter 4.1.5

6.5	Legend
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(*)	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

MG, MS, VG, VS

<mark>(a) – (</mark>	(d) See Explanations on the Table of Characteristics in Chapter 8.1
(+)	See Explanations on the Table of Characteristics in Chapter 8.2
(DS1	- 9) See Explanations on the Table of Characteristics in Chapter 8.2.

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

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1.	VG	Seedling: anthocyanin coloration of hypocotyl					
QN	(a)	absent or very weak				Santo	1
		weak				Americano, Asteca	3
		medium				Palmeira <mark>, UNAPAL</mark> Precese	5
		strong				HTV-9299, Tabocas	7
		very strong					9
2. (+)	<mark>VG</mark> VS	Cotyledon: shape					
<mark>QN</mark> PQ	(a)	narrow elliptic				HTV-9299, <mark>Asteca</mark> , Santo	1
		<mark>medium</mark> elliptic				Palmeira, <mark>Tapacurá</mark> Asteca, Superia	2
		broad elliptic				Verdão	3
3. (+)	MS	Plant: height					
QN	(b)	short				Americano , Santo	3
		medium				Português, Tapacurá, <mark>Thüringer</mark>	5
		<mark>high</mark> tall				Asteca	7
4. (*) (+)	VS	Plant: number of basal leaves					
QN	(b)	few				UNAPAL Precese to be provided	3
		medium				Santo, Supéria, Verdão	5
		many				Tapacurá	7
5.	VG	Plant: density of foliage					
QN	(b)	sparse				Tapacurá , UNAPAL Precoso	3
		medium				Americano, Asteca, Supéria, Verdão	5

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.	VG	Foliage: coloration					
QN	(b)	yellowish <mark>light</mark> green				to be provided an example variety	1
		green				Palmeira, Santo	3
		dark green				Tapacurá	5
7. (*) (+)	V <mark>GS</mark>	Basal leaf: structure of feathering					
PQ	(b)	fine				UNAPAL Precoso <mark>Delfino</mark>	1
		medium				HTV9299, Tabocas, Tapacurá, Verdão	2
		coarse				Santo, Supéria	3
8. (*) (+)	vs	Basal leaf : number of leaflets					
QL	(b)	three					1
		five				Tabocas, HTV9299, Vordão, Tapacurá, Santo, Supória	2
<mark>8</mark> 9.	<mark>VG/</mark> MS	Leaf: size of terminal leaflet					
(+)	IVIS	leanet					
QN	(b)	small				Português	3
		medium				Asteca	5
		large				HTV-9299 , UNAPAL Procoso	7
<mark>910</mark> .	V <mark>GS</mark>	Leaflet: density of incisions on margin					
(+)							
QN	(b)	sparse				Asteca, Santo	3
		medium				Americano, Português, Tabocas, Tapacurá, Supéria UNAPAL Precoso,	5
		dense				HTV-9299, Palmeira, Verdão	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1 <mark>0</mark> 4.	V <mark>G</mark> S	Leaflet: margin attitude					
QN	(b)	downward				Asteca, HTV-9299, Português, Santo, Tabocas	1
		flat				Palmeira, Verdão	3
		upward				Supéria, Tapacurá, UNAPAL Precoso	5
1 <mark>12</mark> .	MS	Petiole : leng <mark>t</mark> hŧ					
(+)							
QN	(b)	very short				UNAPAL Precoso	1
		short				Americano, Asteca	3
		medium				Português, Tapacurá	5
		long				Verdão	7
		very long				Tabocas	9
1 <mark>23</mark> . (*)	VG	Flower: anthocyanin coloration					
QL	(c)	absent				Santo, Tapacurá	1
		present					9
1 <mark>34</mark> .	VG	<u>Varieties with</u> <u>anthocyanin in the</u> <u>flowers only</u> : intensity of anthocyanin coloration					
QN	(c)	weak				Português, Superia	3
		medium				Verdão	5
		strong				Palmeira	7
1 <mark>45</mark> . (*)	V <mark>GS</mark>	Fruit: size					
QN	(d)	small				Americano	3
		medium				HTV-9299, Tapacurá	5
		large				Palmeira, Verdão	7
1 <mark>56</mark> .	VG	Fruit: intensity of brown color					
QN	(d)	light				Asteca, Superia	3
		medium				Palmeira, Tabocas, Verdão	5
		dark				Português	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1 <mark>67</mark> . (*) (+)	V <mark>GS/</mark> MS	Fruit: shape					
PQ	(d)	Rounded medium elliptic				<mark>Tabocas, Verdão</mark> Português	1
		Elongated broad elliptic				Americano, Asteca, HTV-9299, Palmeira, Santo, Superia, Tapacurá	2
		Elliptic circular				Tabocas, Verdão, UNAPAL Procoso Português	3
1 <mark>78</mark> . (+)	VG MG	Time of <mark>beginning of</mark> flowering (50% of plants with at least one flower)					
QN		early				UNAPAL Precoso	3
		medium				Tabocas, Tapacurá	5
		late				Americano, Santo, Supera	7
19.	VG	Time of flowering					
QN	(c)	early				UNAPAL Precese	3
		medium				Tabocas, Tapacurá	5
		late				Supera, Santo, Americano	7

- 8. Explanations on the Table of Characteristics
- 8.1 Explanations covering several characteristics

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

- (a) All observations on the seedling characteristics should be done in the plant with the three first definitive leaves.
- (b) Unless otherwise stated indicated, all observations on the plant, stem, foliage, leaf and leaflet characteristics should be done at the beginning of flowering when 5% of the plants started the male flowering. The observation on leaves and leaflets should be done in the fifth definitive leave.
- (c) All observations on flowers should be made when 50% of the plants are with at least one flower opened.
- (d) All observations on fruits should be made in the stage of dried seeds, collected in the first and second order umbells.
- 8.2 Explanations for individual characteristics

Ad. 2: Cotyledon: shape

1 narrow elliptic

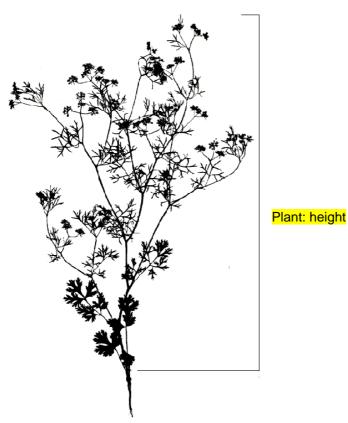
2 <mark>medium</mark> elliptic

3

broad elliptic

Ad. 3: Plant: height

The assessment of the height of the plant should be made from de cotiledone cotyledon node to the top of the highest leaf.



Ad. 4: Plant: number of basal leaves

Should be considered as basal leaves, the leaves around the stem, before $\frac{male}{male}$ flowering, and should be excluded the cotyledon leaves.

Ad. 7: Basal leaf: structure of feathering Ad. 8. Basal leaf : number of leaflets

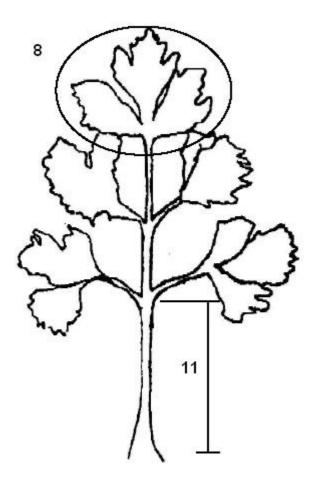
The observations on the basal leaf should be done on the longest basal leaf.

Ad. 7: Basal leaf: structure of feathering of longest basal leaf

PICTURE TO BE PROVIDED UNTIL TWV/46

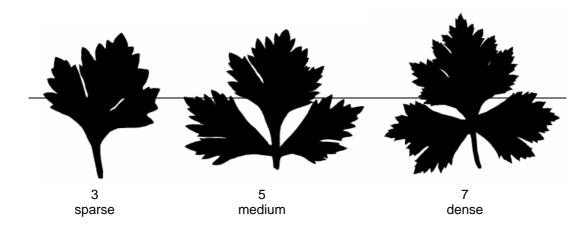
Ad. 8. Basal leaf : number of leaflets

Ad. 89: Leaf: size of terminal leaflet Ad. 112: Petiole: length



Ad. 910. Leaflet: density of incisions on margin

SUITABLE DRAWING TO BE PROVIDED

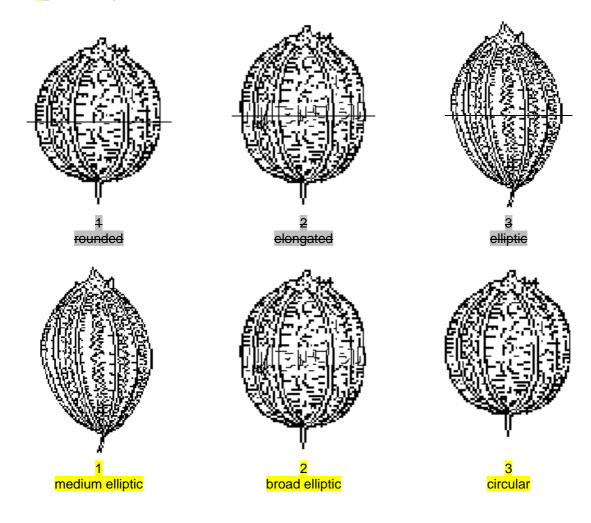


Ad. 10. Leaflet: margin attitude

PICTURE TO BE PROVIDED UNTIL TWV/46

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Ad. 167. Fruit: shape



Ad. 18: Time of flowering

It is considered as the time of male flowering when 50% of the plants start the male flowering

9. <u>Literature</u>

DIEDERICHSEN, A. Coriander (Coriandrum sativum L.). Promoting the conservation and use of underutilized and negleted crops. 3. Rome: Institute of Plant Genetics and Crop Plant Research, Gatersleben/International Plant Genetic Resources Institute, 1996. 83 p.

Melo, P.C.T de; Shirahige, F. H.; Negrini, A. C. A.; Wanderley Júnior, L. J. da G. Caracterização morfológica de estruturas vegetais de coentro (*Coriandrum sativum* L.).

Melo, P.C.T de; Shirahige, F. H.; Negrini, A. C. A.; Wanderley Júnior, L. J. da G. Caracterização morfológica de estruturas reprodutivas e caracteres fenológicos de coentro (*Coriandrum sativum* L.).

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10. <u>Technical Questionnaire</u>

TECH	INICAL 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	Coriandrum sativum L.							
	1.2 Common name								
2.	Applicant								
	Name								
	Address								
	Telephone No.								
	Fax No.								
	E-mail address								
	Breeder (if different from applicant)							
	L								
3.	Proposed denomination and breed	ler's reference							
	Proposed denomination (if available)								
	Breeder's reference								

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
 #4. Information on the breeding scheme and 4.1 Breeding scheme Variety resulting from: 4.1.1 Crossing (a) controlled cross (please state pro- 	s	/ariety
() female parent (b) partially known (please state ki	ma) Ile parent []
() female parent (c) unknown cross	x (ma) .le parent []
4.1.2 Mutation (please state parent va		[]
4.1.3 Discovery and develop (please state where an		[] nd how developed)
4.1.4 Other (please provide details	5)	[]

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TECHNICAL QUE	STIONNAIRE	Page {x} of {y}	Reference Number:			
4.2 Meth	od of propagating the varie	ety				
4.2.1	Seed-propagated varieti	es				
	(a) Self-pollination		[]			
	(b) Cross-pollination					
	(i) population		[]			
	(ii) synthetic va	riety	[]			
	(c) Hybrid		[]			
	(see below)					
	(d) Other (please provide c	letails)	[]			
4.2.2	Other (please provide details)		[]			
	brid varieties the productio atails of all the parent lines		e hybrid should be provided on a separate sheet. This agating the hybrid e.g.			
(female) parent	x	() male parent			
Three-Way Hybri	d					
	() x () female line male line					
(single h and should identii	hybrid used as female pare	nt	x () male parent			
(a) any i	male sterile lines itenance system of male st	erile lines.				

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TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:						
5. charae	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	e Varieties Note					
5.1 (1)	Basal leaf : number of leaflets								
	three			4					
	f ivo			2					
5.2 (2)	Flower: anthocyanin coloration								
	absent			4					
	present			2					

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6.

- 20 -TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number: 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 which Describe the expression of Describe the expression of variety(ies) similar to your your candidate variety differs the characteristic(s) for the the characteristic(s) for candidate variety from the similar variety(ies) **similar** variety(ies) your candidate variety Example Comments:

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TECH	INICAL	QUESTIC	ONNAIRE	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 th	iere any s	special conditions for g	rowing	the varie	ety or condu	cting the examination?		
	Yes [] No []								
	(If yes, please provide details)								
7.3	Other information								
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	[]	N	0	[]			
	(b) Has such authorization been obtained?								
		Yes	[]	N	0	[]			
	If the answer to (b) is yes, please attach a copy of the authorization.								

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

9. Information on plant material to be examined or submitted for examination.

10.

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:

I here	by declare that, to the best of my knowledge, the information provided in the	s form is corre	ect:
Please	e provide details for where you have indicated "yes".		
(d)	Other factors	Yes []	No []
(c)	Tissue culture	Yes []	No []
(b)	Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []
(a)	Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []

Applicant's name			
Signature		Date	

[End of document]