

TG/116/4 ORIGINAL: English **DATE:** 2010-03-24

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

BLACK SALSIFY

UPOV Code: SCORZ_HIS

Scorzonera hispanica L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:*

Botanical name	English	French	German	Spanish
Scorzonera	Black Salsify,	Salsifis noir,	Schwarzwurzel	Salsifí negro,
hispanica L.	Scorzonera	Scorsonère		Escorzonera

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 Scorzonera hispanica 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:

15,000 seeds

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. <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 Type of observation

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 300 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 on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observations made on all plants in the test.

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 should be according to the recommendations for cross-pollinated varieties in the General Introduction. For the characteristics Root: shape (characteristic 10) and Root: color (characteristic 15), a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample of 300 plants, 10 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) Leaf: length (characteristic 5)
- (b) Root: shape (characteristic 10)
- (c) Root: length (characteristic 11)
- (d) Root: color (characteristic 15)

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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

MG, MS, VG, VS: see Chapter 3.3.2

- (a) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1.	VG/ MC	Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
(+)	MG						
QN		short	courte	niedrig	baja	Melina	3
		medium	moyenne	mittel	media	Meres, Verbeterde Reuzen Nietschieters	5
		tall	haute	hoch	alta		7
2. (*)	VG	Foliage: intensity of green color	Feuillage : intensité de la couleur verte	Laub: Intensität der Grünfärbung	Follaje: intensidad del color verde		
QN		light	claire	hell	clara	Meres	3
		medium	moyenne	mittel	media	Antonia, Verbeterde Reuzen Nietschieters	5
		dark	foncée	dunkel	oscura	Libochovický	7
3.	VG	Leaf: glossiness	Feuille: brillance	Blatt: Glanz	Hoja: brillo		
QN		weak	faible	gering	débil		3
		medium	moyenne	mittel	media	Antonia, Verbeterde Reuzen Nietschieters	5
		strong	forte	stark	fuerte	Libochovický	7
4. (*) (+)	VG	Leaf: attitude	Feuille: port	Blatt: Stellung	Hoja: porte		
QN		erect	dressé	aufrecht	erecto	Alpha, Verbeterde Reuzen Nietschieters	1
		semi-erect	demi-dressé	halbaufrecht	semierecto	Antonia, Meres	3
		horizontal	horizontal	waagerecht	horizontal		5

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

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
5. (*)	VG/ MS	Leaf: length	Feuille: longueur	Blatt: Länge	Hoja: longitud		
QN		short	courte	kurz	corta		3
		medium	moyenne	mittel	media	Verbeterde Reuzen Nietschieters, Meres	5
		long	longue	lang	larga	Melina	7
6. (*)	VG/ MS	Leaf: width	Feuille: largeur	Blatt: Breite	Hoja: anchura		
QN		narrow	étroite	schmal	estrecha	Alpha	3
		medium	moyenne	mittel	media	Meres, Verbeterde Reuzen Nietschieters	5
		broad	large	breit	ancha	Melina	7
7.	VG	Leaf: undulation of margin	Feuille: ondulation du bord	Blatt: Randwellung	Hoja: ondulación del borde		
QN		absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil		1
		weak	faible	gering	débil	Alpha, Meres	3
		medium	moyenne	mittel	medio		5
		strong	forte	stark	fuerte		7
8.	VG	Leaf: dentation of margin	Feuille: denture du bord	Blatt: Randzähnung	Hoja: dentado del borde		
QN		absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil		1
		weak	faible	gering	débil	Alpha, Antonia	3
		medium	moyenne	mittel	medio	Melina	5
		strong	forte	stark	fuerte		7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
9. (+)	VG	Leaf: reflexing of blade	Feuille: recourbure du limbe	Blatt: Biegung der Spreite	Hoja: curvatura del limbo		
QN		absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil		1
		weak	faible	gering	débil	Alpha	3
		medium	moyenne	mittel	media	Meres, Verbeterde Reuzen Nietschieters	5
		strong	forte	stark	fuerte	Libochovický	7
10. (*) (+)	VG	Root: shape	Racine : forme	Wurzel: Form	Raíz: forma		
PQ	(a)	conical	conique	kegelförmig	cónica	Libochovický	1
		cylindrical	cylindrique	zylindrisch	cilíndrica	Alpha, Hoffmanns schwarze Pfahl	2
		obconical	obconique	verkehrt kegelförmig	obcónica	Lange Jan	3
11. (*)	VG/ MS	Root: length	Racine : longueur	Wurzel: Länge	Raíz: longitud		
QN	(a)	short	courte	kurz	corta	Libochovický	3
QN	(a)	short medium	courte moyenne	kurz mittel	media	Libochovický	3 5
QN	(a)	short medium long	courte moyenne longue	kurz mittel lang	corta media larga	Libochovický Hoffmanns schwarze Pfahl, Meres	3 5 7
QN 12.	(a) VG/ MS	short medium long Root: diameter at broadest part	courte moyenne longue Racine : diamètre à la partie la plus large	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle	corta media larga Raíz: diámetro en la parte más ancha	Libochovický Hoffmanns schwarze Pfahl, Meres	3 5 7
QN 12. QN	(a) VG/ MS (a)	short hedium hedium hong hong hong hong hong hong hong hong	courte moyenne longue Racine : diamètre à la partie la plus large petit	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein	corta media larga Raíz: diámetro en la parte más ancha pequeño	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia	3 5 7 3
QN 12. QN	(a) VG/ MS (a)	short medium long Root: diameter at broadest part small medium	courte moyenne longue Racine : diamètre à la partie la plus large petit moyen	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein mittel	corta media larga Raíz: diámetro en la parte más ancha pequeño medio	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia Meres	3 5 7 3 5
QN 12. QN	(a) VG/ MS (a)	short medium long Root: diameter at broadest part small medium large	courte moyenne longue Racine : diamètre à la partie la plus large petit moyen grand	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein mittel groß	corta media larga Raíz: diámetro en la parte más ancha pequeño medio grande	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia Meres Melina	3 5 7 3 5 7
QN 12. QN 13.	(a) VG/ MS (a) VG	short medium long Root: diameter at broadest part small medium large Root: shape of shoulder	courte moyenne longue Racine : diamètre à la partie la plus large petit moyen grand Racine : forme de l'épaulement	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein mittel groß Wurzel: Form der Schulter	corta media larga Raíz: diámetro en la parte más ancha pequeño medio grande Raíz: forma del hombro	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia Meres Melina	3 5 7 3 5 7
QN 12. QN 13. (+)	(a) VG/ MS (a) VG	short medium long Root: diameter at broadest part small medium large Root: shape of shoulder flat	courte moyenne longue Racine : diamètre à la partie la plus large petit moyen grand Racine : forme de l'épaulement	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein mittel groβ Wurzel: Form der Schulter	corta media larga Raíz: diámetro en la parte más ancha pequeño medio grande Raíz: forma del hombro	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia Meres Melina	3 5 7 3 5 7
QN 12. QN 13. (+) QN	(a) VG/ MS (a) VG (a)	short medium long Root: diameter at broadest part small medium large Root: shape of shoulder flat	courte moyenne longue Racine : diamètre à la partie la plus large petit moyen grand Racine : forme de l'épaulement	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein mittel groß Wurzel: Form der Schulter flach	corta media larga Raíz: diámetro en la parte más ancha pequeño medio grande Raíz: forma del hombro plana	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia Meres Melina Hoffmanns schwarze Pfahl, Melina	3 5 7 3 5 7
QN 12. QN 13. (+) QN	(a) VG/ MS (a) VG (a)	short medium long Root: diameter at broadest part small medium large Root: shape of shoulder flat rounded	courte moyenne longue Racine : diamètre à la partie la plus large petit moyen grand Racine : forme de l'épaulement aplati arrondi	kurz mittel lang Wurzel: Durchmesser an der breitesten Stelle klein mittel groβ Wurzel: Form der Schulter flach abgerundet	corta media larga Raíz: diámetro en la parte más ancha pequeño medio grande Raíz: forma del hombro plana redondeada	Libochovický Hoffmanns schwarze Pfahl, Meres Antonia Meres Melina Hoffmanns schwarze Pfahl, Melina Alpha	3 5 7 3 5 7 1 2

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_		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
14. (*)	VG	Root: shape of tip	Racine: forme de l'extrémité	Wurzel: Form der Spitze	Raíz: forma de la punta		
QN	(a)	blunt	arrondie	stumpf	romo	Verbeterde Reuzen Nietschieters	1
		slightly pointed	légèrement pointue	leicht spitz	ligeramente puntiagudo	Libochovický	2
_		strongly pointed	fortement pointue	sehr spitz	muy puntiagudo	Meres	3
15. (*)	VG	Root: color	Racine: couleur	Wurzel: Farbe	Raíz: color		
PQ	(a)	light brown	brun clair	hellbraun	marrón claro		1
		dark brown	brun foncé	dunkelbraun	marrón oscuro	Verbeterde Reuzen Nietschieters	2
		black	noire	schwarz	negro	Antonia	3

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) Characteristics to be observed at harvest maturity when first leaves start to turn yellow.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: height



Ad. 4: Leaf: attitude



1 erect

5 horizontal

3 semi-erect





Ad. 13: Root: shape of shoulder



9. <u>Literature</u>

Banga, O, 1961: *Breeding Scorzonera hispanica L*. By the polycross method. Euphytica 10, pp. 49-58.

Bosch, C.H., 2004: *Scorzonera Hispanica L.* In: Grubben, G.J.H. & Denton, O.A. (editors). Plant Resources of Tropical Africa 2. Vegetables. Prota Foundation, Wageningen, NL, pp. 454-455.

Mallekote, L., 1952: Zaadteelt (bijzonder gedeelte). Purmerend, NL, pp. 179-181.

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10. <u>Technical Questionnaire</u>

TEC	CHNICAL QUESTIONNAIRE	E	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 Que	esti	onnaire	
	1.1 Botanical name	Sco	orzonera hispanica L.	
	1.2 Common name	Bla	ck Salsify, Scorzonera	a
2.	Applicant			
	Name			
	Address			
	Telephone No.			
	Fax No.			
	E-mail address			
	Breeder (if different from ap	pli	cant)	
	L			
3.	Proposed denomination and	bre	eder's reference	
	Proposed denomination (if available)			
	Breeder's reference			

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TECHNICAL QUESTION	NAIRE Page {x} of {y}	Reference Number:			
 #4. Information on the breeding scheme and propagation of the variety 4.1 Breeding scheme 					
Variety resulting	g from:				
4.1.1 Crossing					
(a) cor (pl (b) par (pl (c) unl	ntrolled cross ease state parent varieties) tially known cross ease state known parent variety known cross	[] [] (ies))			
4.1.2 Discover (please si and how	y and development tate where and when discovered developed)	[]			
4.1.3 Other (please p	provide details)	[]			
4.2 Method of propagating the variety					
4.2.1 Seed-propa	agated varieties				
(a) Self-	pollination	[]			
(b) Hybr	rid	[]			
(c) Othe (plea	r se provide details)	[]			
4.2.2 Other (please pro	ovide details)	[]			

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

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TEC	HNICAL QUESTIONNAIRE	Page {x} of {y}	Refer	ence Number:	
5. corre	Characteristics of the variety sponding characteristic in T sponds).	to be indicated Test Guidelines;	(the numb) please m	er in brackets refers to ark the note which	the best
	Characteristics			Example Varieties	Note
5.1 (5)	Leaf: length				
	short				3[]
	medium			Meres, Verbeterde Reuzen Nietschieters	5[]
	long			Melina	7[]
5.2 (10)	Root: shape				
	conical			Libochovický	1[]
	cylindrical			Alpha, Hoffmanns schwarze Pfahl	2[]
	obconical			Lange Jan	3[]
5.3 (11)	Root: length				
	short			Libochovický	3[]
	medium				5[]
	long			Hoffmanns schwarze Pfahl, Meres	7[]
5.4 (15)	Root: color				
	light brown				1[]
	dark brown			Verbeterde Reuzen Nietschieters	2[]
	black			Antonia	3[]

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

Characteristic(s) in	Describe the expression	Describe the
which your candidate	of the characteristic(s)	expression of the
variety differs from the	for the similar	characteristic(s) for
similar variety(ies)	variety(ies)	your candidate variety
Root: length	long	short
	Characteristic(s) in which your candidate variety differs from the similar variety(ies) <i>Root: length</i>	Characteristic(s) in which your candidate variety differs from the similar variety(ies)Describe the expression of the characteristic(s) for the similar variety(ies)Root: lengthlong

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 conditio	ons for growing the va	ariety or conducting the examination?		
	Yes []	No []			
	(If yes, please provide details)				
7.3	Other information				
8.	Authorization for release				
	(a) Does the variety require the protection of the environm	prior authorization function function function for the second sec	for release under legislation concerning al health?		
	Yes []	No []			
	(b) Has such authorization b	peen obtained?			
	Yes []	No []			
	If the answer to (b) is yes, plea	ase attach a copy of t	he 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:
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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, phytoplasm	a)	Yes []	No []			
	(b)	Chemical treatment (e.g. growth retardant, pestic	ide)	Yes []	No []			
	(c)	Tissue culture		Yes []	No []			
	(d) Other factors			Yes []	No []			
	Please provide details for where you have indicated "yes".							
10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:								
Applicant's name								
	Signa	ture	Date					

[End of document]