

TG/116/4(proj.1) **ORIGINAL**: English **DATE:** 2009-03-18

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA



BLACK SALSIFY

SCORZ HIS

Scorzonera hispanica L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Netherlands

to be considered by the Technical Working Party for Vegetables at its forty-third session, to be held in Beijing, from April 20 to 24, 2009

Alternative Names:*

Botanical name

English French German Spanish Schwarzwurzel Salsiff Scorzonera Black Salsify, Salsifis noir, hispanica L. Scorzonera Scorsonere

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.

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.]

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

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1. Subject of these Test Guidelines

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. Method of Examination

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 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 should be made on 60 plants or parts taken from each of 60 plants.

3.6 Additional Tests

Additional tests, for examining relevant characteristics, may be established.

- 4. Assessment of Distinctness, Uniformity and Stability
- 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.

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. Grouping of Varieties and Organization of the Growing Trial
- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
 - (a) Leaf: length (characteristic 5)
 - (b) Root: shape (characteristic 10)
 - (c) Root: length (characteristic 11)
 - (d) Root: color (characteristic 15)
- 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

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

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. (+)	VG/ MG	Plant: height	Plante : hauteur	Pflanze: Höhe			
QN		low	basse	niedrig			3
		medium	moyenne	mittel		Verbeterde Reuzen Nietschieters	5
		high	haute	hoch			7
2. (*)	VG	Foliage: green color	Feuillage : couleur verte	Laub: Grünfärbung			
QN		light	claire	hell			3
		medium	moyenne	mittel		Antonia, Verbeterde Reuzen Nietschieters	5
		dark	foncé	dunkel			7
3.	VG	Leaf: glossiness	Feuille: brillance	Blatt: Glanz	Hoja: brillo		
QN		weak	faible	gering	débil		3
		medium	moyenne	mittel	medio	Antonia, Verbeterde Reuzen Nietschieters	5
		strong	forte	stark	fuerte		7
4. (*) (+)	VG	Leaf: attitude	Feuille: port	Blatt: Stellung	Hoja: porte		
QN		erect	dressé	aufrecht	erecto		1
		semi-erect	demi-dressé	halbaufrecht	semierecto		3
		horizontal	horizontal	waagerecht	horizontal		5
5. (*)	VG/ MS	Leaf: length	Feuille: longueur	Blatt: Länge	Hoja: longitud		
QN		short	courte	kurz	corta		3
		medium	moyenne	mittel	media	Verbeterde Reuzen Nietschieters	5
		long	longue	lang	larga		7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6. (*)	VG/ MS	Leaf: width	Feuille: largeur	Blatt: Breite	Hoja: anchura		
QN		narrow	étroite	schmal	estrecha		3
		medium	moyenne	mittel	media	Verbeterde Reuzen Nietschieters	5
		broad	large	breit	ancha		7
7.	VG	Leaf: undulation of margin	Feuille: ondulation du bord	Blatt: Randwellung			
QN		absent or very weak	absent ou très faible	fehlend oder sehr gering			1
		weak	faible	gering	débil	Alpha	3
		medium	moyenne	mittel	medio		5
		strong	forte	stark	fuerte		7
8.	VG	Leaf: dentation of margin	Feuille: denture du bord	Blatt: Randzähnung			
QN		absent or very weak	absent ou très faible	fehlend oder sehr gering			1
		weak	faible	gering	débil	Alpha	3
		medium	moyenne	mittel	medio		5
		strong	forte	stark	fuerte		7
9.	VG	Leaf: reflexing of tip	Feuille: recourbure de l'extrémité	Blatt: Abbiegung der			
(+)			ue i camennie	Spitze			
QN		absent or very weak	absent ou très faible	fehlend oder sehr gering			1
		weak	faible	gering	débil		3
		medium	moyenne	mittel	medio		5
		strong	forte	stark	fuerte		7

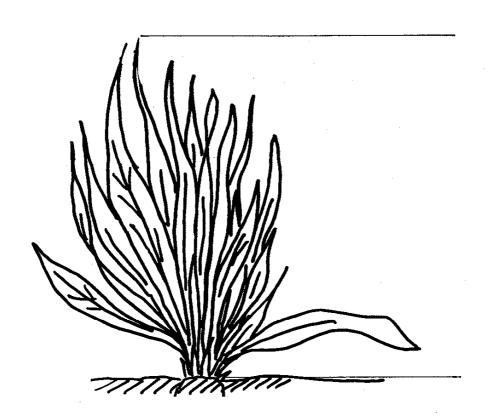
Note			English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
Cylindrical cylindrique Cylindrisch Cylindrisch Cylindrisch Conical Conique Conical Conique Conique Conical Conique Conique Conique Conical Conique Coniqu	(*)	VG	Root: shape	Racine : forme	Wurzel: Form			
Conical conique kegelförmig Lange Jan 3 11. VG/ Root: length (*) MS QN short courte kurz corta 3 medium moyenne mittel media Hoffmanns schwarze Pfahl Meres Germany proposes to add (+) 12. VG/ Root: diameter MS QN small petit klein pequeño 3 medium moyen mittel medio Meres 5 large grand grob grande 7 13. VG Root: width of shoulder (+) QN narrow deroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyene mittel medio Meres 5 Schulterbreite Schulterbreite 5 QN narrow deroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyen mittel medio Meres 5 13. VG Root: width of shoulder l'épaulement schwarze pfahl, Lange Jan medium moyene mittel media Alpha 5 Droad large breit ancha 7 14. VG Root: tip Racine: extrémité Wurzel: Ende (*) QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters 1	PQ		obconical	obconique	verkehrt kegelförmig			1
11. VG/ NS Root: length Racine : longueur Wurzel: Länge			cylindrical	cylindrique	zylindrisch		Hoffmanns schwarze	2
(*) MS QN short courte kurz corta 3 medium moyenne mittel media 5 long longue lang larga Hoffmanns schwarze Pfahl, Meres 7 Germany proposes to add (+) 12. VG/Root: diameter MS Racine : diamètre Wurzel: Durchmesser Verbeterde Reuzen Albertal Alpha 3 QN small petit klein pequeño 3 3 medium moyen mittel medio Meres 5 13. VG Root: width of shoulder Racine: largeur de Pépaulement Wurzel: Schulterbreite QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan 3 medium moyenne mittel media Alpha 5 QN Root: tip Racine: extrémité Wurzel: Ende Verbeterde Reuzen Nietschieters 1			conical	conique	kegelförmig		Lange Jan	3
medium moyenne mittel media 5 long longue lang larga Hoffmanns schwarze Pfahl, Meres Germany proposes to add (+) 12. VG/ Root: diameter MS small petit klein pequeño 3 medium moyen mittel medio Meres 5 large grand groß grande 7 13. VG/ Root: width of shoulder (+) Racine: largeur de Pépaulement Racine: largeur de Schulterbreite Schulterbreite 4 Wurzel: Schulterbreite 4 Wurzel: Schulterbreite 4 Wurzel: Schulterbreite 5 14 Wirzel: Moffmanns schwarze prahl, Lange Jan medium moyenne mittel media Alpha 5 prahl, Lange Jan medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG/ Root: tip Wurzel: Ende Verbeterde Reuzen Nietschieters 1 Verbeterde Reuzen Nietschieters			Root: length	Racine : longueur	Wurzel: Länge			
long longue lang larga Hoffmanns schwarze Pfahl, Meres	QN		short	courte	kurz	corta		3
Germany proposes to add (+) 12. VG/ Root: diameter MS Racine : diamètre Wurzel: Durchmesser QN small petit klein pequeño 3 medium moyen mittel medio Meres 5 large grand groß grande 7 13. VG Root: width of shoulder (+) QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip Racine: extrémité Wurzel: Ende QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters			medium	moyenne	mittel	media		5
12. VG/ MS Root: diameter MS Racine : diamètre Wurzel: Durchmesser QN small petit klein pequeño 3 medium moyen mittel medio Meres 5 large grand groß grande 7 13. VG Root: width of shoulder Racine : largeur de l'épaulement Wurzel: Schulterbreite Hoffmanns schwarze Schulterbreite 3 QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan 3 medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip Racine: extrémité Wurzel: Ende QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters 1			long	longue	lang	larga	Pfahl,	7
MS Small petit klein pequeño 3 3 medium moyen mittel medio Meres 5 large grand groß grande 7	Germ	any pi	roposes to add (+)					
medium moyen mittel medio Meres 5 large grand groß grande 7 13. VG Root: width of shoulder (+) QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip (*) Racine: extrémité Wurzel: Ende (*) QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters	12.		Root: diameter	Racine : diamètre	Wurzel: Durchmesse	r		
large grand groß grande 7 13. VG Root: width of shoulder (+) QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip Racine: extrémité Wurzel: Ende (*) QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters	QN		small	petit	klein	pequeño		3
13. VG Root: width of shoulder Pépaulement Schulterbreite (+) QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip (*) QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters 1			medium	moyen	mittel	medio	Meres	5
Schulterbreite QN narrow étroite schmal estrecha Hoffmanns schwarze Pfahl, Lange Jan medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip (**) Racine: extrémité Wurzel: Ende QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters 1			large	grand	groß	grande		7
medium moyenne mittel media Alpha 5 broad large breit ancha 7 14. VG Root: tip (*) QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters 1	13.	VC						
broad large breit ancha 7 14. VG Root: tip Racine: extrémité Wurzel: Ende QL blunt arrondie stumpf Verbeterde Reuzen Nietschieters	(+)	VG						
14. VG Root: tip Racine: extrémité Wurzel: Ende (*) QL blunt arrondie stumpf Verbeterde Reuzen 1 Nietschieters		vG	shoulder	l'épaulement	Schulterbreite		Pfahl,	<u> </u>
(*) QL blunt arrondie stumpf Verbeterde Reuzen 1 Nietschieters		VG	shoulder narrow	l'épaulement étroite	Schulterbreite schmal	estrecha	Pfahl, Lange Jan	3
Nietschieters		VG	narrow medium	l'épaulement étroite moyenne	Schulterbreite schmal mittel	estrecha media	Pfahl, Lange Jan	3
pointed pointue spitz Meres 9	QN 14.		narrow medium broad	l'épaulement étroite moyenne large	schulterbreite schmal mittel breit	estrecha media	Pfahl, Lange Jan	3
	QN 14. (*)		shoulder narrow medium broad Root: tip	l'épaulement étroite moyenne large Racine: extrémité	schulterbreite schmal mittel breit Wurzel: Ende	estrecha media	Pfahl, Lange Jan Alpha Verbeterde Reuzen	3 5 7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15. (*)	VG	Root: color	Racine: couleur	Wurzel: Farbe			
PQ		light brown	brun clair	hellbraun			1
		dark brown	brun foncé	dunkelbraun		Verbeterde Reuzen Nietschieters	2
		black	noir	schwarz		Antonia, Hoffmanns schwarze Pfahl	3

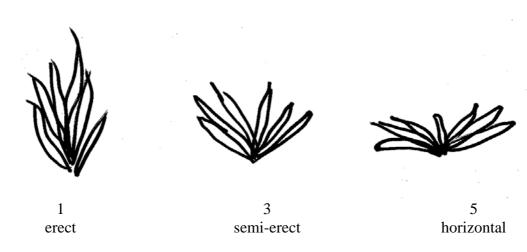
8. <u>Explanations on the Table of Characteristics</u>

8.2 Explanations for individual characteristics

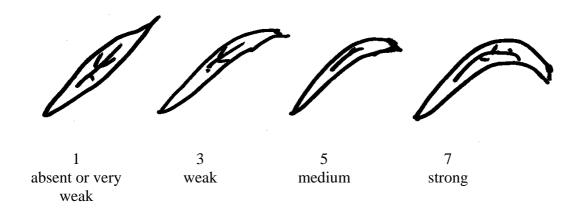
Ad. 1: Plant: height



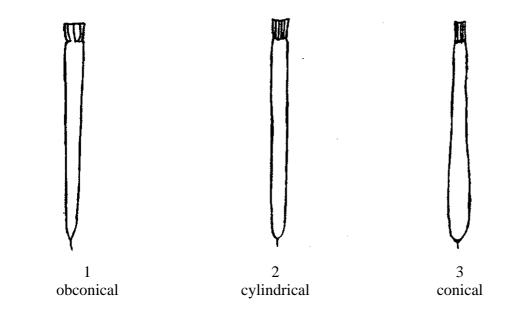
Ad. 4: Leaf: attitude



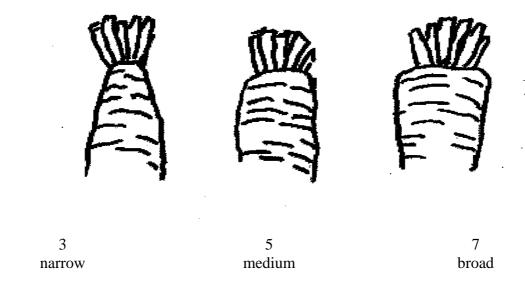
Ad. 9: Leaf: reflexing of tip



Ad. 10: Root: shape



Ad. 13: Root: width of shoulder



9. <u>Literature</u>

To be provided

10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIR		Page {x} of {y}	Reference Number:
			Application date: (not to be filled in by the applicant)
		CHNICAL QUESTION ection with an application	NAIRE on for plant breeders' rights
1.	Subject of the Technical Que	estionnaire	
	1.1 Botanical name	Scorzonera hispanica L.	
	1.2 Common name	Black Salsify, Scorzoner	ra e
	_		
2.	Applicant		
	Name		
	<u>L</u>		
	Address		
	Telephone No.		
	Fax No.		
	E-mail address		
	Breeder (if different from ap	plicant)	
3.	Proposed denomination and	breeder's reference	
	Proposed denomination (if available)		
	Breeder's reference		

TECHNICAL (QUESTIONNAIRE Page {	$\{x\}$ of $\{y\}$	Reference Number:				
[#] 4. Informatio	*4. Information on the breeding scheme and propagation of the variety						
4.1 Bree	ding scheme						
	Variety resulting from:						
4.1.7	Crossing						
	(a) controlled cross	vomiation)	[]				
	(b) partially known cros	SS	[]				
	(please state known (c) unknown cross	parent variety(ies	s)) []				
4.1.2	Discovery and developme (please state where and what and how developed)		[]				
4.1.3	Other (please provide details)		[]				
4.2 Method of	propagating the variety						
	Seed-propagated varieties						
	(a) Cross-pollination (i) population (ii) synthetic variety		[]				
	(b) Hybrid		[]				
(places provide	(c) Other		[]				
(please provide	uetans)						

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

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

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

	Characteristics	Example Varieties	Note
5.1 (5)	Leaf: length		
	short		3[]
	medium	Verbeterde Reuzen Nietschieters	5[]
	long		7[]
5.2 (10)	Root: shape		
	obconical		1[]
	cylindrical	Alpha, Hoffmanns schwarze Pfahl	2[]
	conical	Lange Jan	3[]
5.3 (11)	Root: length		
	short		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, Hoffmanns schwarze Pfahl	3[]

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 variety(ies) similar to your candidate variety	Characteri which your variety diffe similar va	candidate rs from the	of the cha	the expression aracteristic(s) he similar hety(ies)	Describe the expression of the characteristic(s) for your candidate variety	
Meres	Root: l	length		long (7)	short (3)	
Comments:						

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					
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 been obtained?					
	Yes [] No []					
	If the answer to (b) is yes, please attach a copy of the authorization.					

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

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 expression of the characteristics of request such treatment. If the plant treatment must be given. In this respif the plant material to be examined h	the variety, unless the material has undergone ect, please indicate bel	e such treatment, full details of the				
(a) Microorganisms (e.g. vir	us, bacteria, phytoplasi	ma) Yes [] No []				
(b) Chemical treatment (e.g.	growth retardant, pesti	icide) Yes [] No []				
(c) Tissue culture		Yes [] No []				
(d) Other factors		Yes [] No []				
Please provide details for wher	e you have indicated "	yes".				
10. I hereby declare that, to the beform is correct:						
Applicant's name						
Signature Date						

[End of document]