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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

DATE PALM

UPOV Code(s): PHOEN_DAC

Phoenix dactylifera L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Oman to be considered by the Technical Working Party for Fruit Crops at its forty-seventh session, to be held in Angers, France, from 2016-11-14 to 2016-11-18

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
Phoenix dactylifera L.	Date, Date Palm	Palmier dattier	Dattelpalme	Datilera, Palma datilero, Palmera datilera

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.

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

- 1.1 These Test Guidelines apply to all varieties of *Phoenix dactylifera* L.
- 1.2 These Test Guidelines apply only to female varieties of *Phoenix dactylifera* L.

The guidelines apply only to *Phoenix dactylifera* L. for fruit purposes only, not as an ornamental plant.

Satisfactory fruit production (i.e. minimum number of bunches, strands per bunch, and fruit per strand) is required.

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 off-shoots, tissue-cultured plantlets.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

5 offshoots or tissue-cultured plantlets

- 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
- 3.1.1 The minimum duration of tests should normally be a single growing cycle.
- 3.1.2 The minimum duration of tests should normally be three independent growing cycles.
- 3.1.3 In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles.
- 3.1.3 The growing cycle is considered to be the period ranging from the beginning of development of an individual flower or inflorescence, through fruit development and concluding with the harvesting of fruit from the corresponding individual flower or inflorescence.
- 3.1.4 Date palm often require thinning to enhance fruit quality in which case the fruiting is constant from year to year, however, in non-thinned trees, date palm shows on/off year biennial bearing, which required three 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.
- 3.3.3 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description.
- 3.3.4 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. In particular, it is essential that the palm produce a satisfactory crop of fruit in each of the three growing cycles

3.4 Test Design

- 3.4.1 Each test should be designed to result in a total of at least 15 trees.
- 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. 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.

4.1.4 Number of plants or parts of plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 15 plants or parts of plants taken from each of 15 plants and any other observations made on all plants in the test, disregarding any off-type plants.

In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 4.

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.

- 4.1.6 Vegetative propagation is currently the common method used for the purpose of distinctness, although seed propagation is done for breeding purposes
- 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.
- 4.2.3 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 1 off-type is 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 further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial 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:
- 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 pseudoqualitative) 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

		English		françai	is	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7			
		Name of characteristics in English		Nom carac frança	du tère en ais	Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states of expression		types	d'expression	Ausprägungsstufen	tipos de expresión			

1 Characteristic number

2	(*)	Asterisked characteristic	- see Chapter 6.1.2
3	Type of expression QL QN PQ	Qualitative characteristic Quantitative characteristic Pseudo-qualitative characteristic	 see Chapter 6.3 see Chapter 6.3 see Chapter 6.3
4	Method of observation (and type MG, MS, VG, VS	of plot, if applicable)	- see Chapter 4.1.5
F	(1)	See Explorations on the Table of	Characteristics in Chapter 9

- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.1
- 6 Not applicable
- 7 Growth stage key See Explanations on the Table of Characteristics in Chapter 8

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.	(*)	QN	VG	(+)					1
		Young shoot	plant: color of						
		Light G	Green						3
		Medium							5
		Dark G	Green						7
2.	(*)	QN	MS/VS	(+)					
		Young of leav	ı plant: number /es						
		Few							3
		Mediur	n						5
		Many							7
3.	(*)	QN	VG	(+)				•	•
		Young time o	ı plant: Leaf: f splitting						
		Early							1
		Mediur	n						2
		Late							3
4.	(*)	QN	MG	(+)			L	1	1
		Time of first in	of appearance of florescence						
		Early						Naghal	3
		Mediur	n					Khalas	5
		Late						Khasab	7
5.		QN	VG	(+)					
		Leaves attitude of lower leaves: Plant Habit							
		Upwar	ds, Erect					Deglet Nour, Fardh	1
		Outwa	rds, Spherical					Besr Helou, Um Sella	2
		Downwards, Drooping						Ghars, Naghal	3

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6. (*) QN	MS/VG	(+)					
	Leaf:	length of rachis						
	Short							3
	Mediu	m						5
	Long							7
7.	QN	MS/VG						
	Leaf: leafle	number of ts						
	Few							3
	Mediu	m						5
	Many							7
8.	QN	MS/VG	(+)					
	Leaf:	leaflet width						
	Narro	W						1
	Mediu	Medium						2
	Broad							3
9.	QN	VG					-	•
	Leafle greer lower	et: intensity of color in the side						
	Yellov	vish Green					Deglet Nour	1
	Olive	Green					Besr Helou	2
	Bluefi	sh Green					Ammari	3
10. (*) PQ	VG	(+)					
	Petio	e: color		1				
	Yellov	vish					Deglet Nour	1
	Browr	1					Ghars	2
	Black	ened					Busthammi	3
11.	QN	MS/VG	(+)					
	Inflor	escence: ncle length						
	Short		1					3
	Mediu	m						5
	Long		1					7

	English			français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.	QN	MS/VG						
	Inflore pedur	escence: acle width						
	Narrov	V						3
	Mediu	m						5
	Broad							7
13.	QN	MS/VG						
	Inflore axis le	escence: central ength						
	Short							3
	Mediu	m						5
	Long							7
14.	PQ	VG	(+)					
	Inflore Shape	escence: Spathe						
	Lance	olate						1
	Fusifo	rm						2
	Swolle	n						3
15.	QN	MS/VG						
	Inflorescence: attitude of spikelets (Spike Density)							
	Loose	or sparse						1
	Mediu	m						2
	Compa	act or dense						3
16.	QN	MS/VG	(+)					
	Inflore of spil	escence: number kelets						
	Few							3
	Mediu	m						5
	Many							7
17. (*)	QN	MS/VG	(+)					
	Bunch fruits	n: number of						
	Few							3
	Mediu	m						5
	Many							7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
18. (*)	PQ	VG	(+)			·		
	Fruit: (Besr)	color at Khalal Stage						
	Yellow	1					Deglet Nour, Khalas	1
	Orang	е					Fardh	2
	Red						Khasab	3
	Dark r	ed					Khunaizi	4
19. (*)	PQ	VG	(+)					
	Fruit: Stage	color at Tamar						
	Yellow	1						1
	Ambe	r						2
	Honey	'						3
	Dark F	Red						4
	Black	Black						5
	Green	ish						6
	Red							7
20. (*)	PQ	VG	(+)			1	1	
	Fruit:	shape						
	Spher	ical					Tantabucht	1
	Cylind	rical					Medjool (Mejhool)	2
	elliptic	;					Beyd Hmam	3
	Obova	ate (Piriforme)					Ghars	4
21. (*)	PQ	VG	(+)					-
	Fruit: end	shape at distal						
	Large	Round						1
	Flat O	blique						2
	Flat		[3
	Oval							4
	Obliqu	ie						5

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (*)	PQ	VG	(+)					
	Fruit: s end	shape of stalk		·				
	Large I	Round						1
	Pointe	d						2
	Elonga	ate						3
	Oval							4
	Oval C	blique						5
23. (*)	QN	MS/VG				·	·	
	Fruit:	Length						
	Very S	hort (< 30 mm)						1
	Short ((30-40)						2
	Mediur	m (41-50)						3
	Long (51-60)						4
	Very L	ong (>60 mm)						5
24. (*)	QN	MS/VG				<u> </u>	<u> </u>	<u> </u>
:	Fruit:	Width		:				
	Narrow	v (<10 mm)						1
	Mediur	m (10-20)						2
	Wide (21-30)						3
	Very W	Vide (>30 mm)						4
25. (*)	QN	MS						<u> </u>
	Fruit:	Consistency		:				
	Soft						Barhi Khalas	3
	Semi-9	Soft					Eardh, Medicol (Meibool)	5
	Drv						Dedlat Beidha	7
26 (*)	OI.	VG					Dogiat Dolana	<u> </u>
	Fruit:	Fiesh lexture						
	Fibrou	S						1
	Mealy							3
	Honey	ed						5

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27.	QL	VG						
	Fruit: /	Aroma						
	Absent							1
	Presen	t						9
28. (*)	QL	VG	(+)					
	Fruit: (Calyx (or Cap)						
	Flatten	ed						1
	Promin	ent						2
	Very P	rominent						3
29.	PQ	VG	(+)					
	Fruit: (Calyx color						
								1
	Vollow							
	Orongo							2
20 (*)	PO	VG	(1)					
30. ()		10	(+)					
	Seed:	shape						
	ovate						Tantabucht	1
	Conica	I					Horra	2
	Fusifor	m					Deglet Nour	3
	Semi-C	Cylindrical					Ghars	4
	Pyrifor	n						5
31.	QN	MS/VG	(+)			1		
	Seed:	Length						
	Long							1
	Mediur	n						3
	Short							5
32. (*)	PQ	VG	(+)					
	Seed o	olor						
	Oreit							
	Grey							
	Cream							2
	Brown							3

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33.	QN	MS/VG	(+)					
	Seed: Embryo position							
	Proximal							1
	Central							2
	Distal							3

8. Explanations on the Table of Characteristics

8.1 Explanations for individual characteristics

Ad. 1: Young plant: color of shoot

Observations on leaf and petiole should be made at 10th fully mature leaf

Ad. 2: Young plant: number of leaves

To be determined two years after planting

Ad. 3: Young plant: Leaf: time of splitting

About one year old seedling from tissue-cultured plantlet

Ad. 4: Time of appearance of first inflorescence

The time of appearance of first inflorescence should be observed when 50% of the plants have emitted the first inflorescence.

Ad. 5: Leaves attitude of lower leaves: Plant Habit



Ad. 6: Leaf: length of rachis

Short (Less than 4 m) Medium (between 4-5 m) Long (More than 5 m)

Ad. 8: Leaf: leaflet width

Width should be measured In the middle of leaflet

Ad. 10: Petiole: color

Petiole color is determined from the petiole base, below the spine area





Brown

3 Blackened

Ad. 11: Inflorescence: peduncle length



Fig. 14. Longueur de la partie ramifiée de la hampe florale



Ad. 14: Inflorescence: Spathe Shape

Ad. 16: Inflorescence: number of spikelets

The number of spikelets is assessed by counting after removing them from the inflorescence.

Ad. 17: Bunch: number of fruits



mature fruits on strands

Ad. 18: Fruit: color at Khalal (Besr) Stage

Khalal is the third stage when the fruit has gained its characteristic color. The first is Hababok (last for 4-5 weeks after pollination) & second is Kimri (lasts 9-14 weeks)



Yellow



2 Orange





Ad. 19: Fruit: color at Tamar Stage



Honey



Black

Ad. 20: Fruit: shape



Ad. 21: Fruit: shape at distal end



Ad. 22: Fruit: shape of stalk end



Ad. 28: Fruit: Calyx (or Cap)



Ad. 29: Fruit: Calyx color



Bisr fruits showing yellow Calyx

Ad. 30: Seed: shape



Ad. 31: Seed: Length



Ad. 32: Seed color

Seed dry or seed from fruit Tamar stage

Ad. 33: Seed: Embryo position

Seed Embryo Position



8.2 Date fruit ripening stages:



Hababok



Khalal



Kimri



Tamar

9. <u>Literature</u>

Al-Khayri, Jameel M., Jain, Shri Mohan, Johnson, Dennis V. 2015. Date Palm Genetic Resources and Utilization. Volume 2: Asia and Europe. Springer Netherlands, The Netherlands.
Al-Khayri, Jameel M., Jain, Shri Mohan, Johnson, Dennis V. 2015. Date Palm Genetic Resources and Utilization. Volume 1: Africa and the Americas. Springer Netherlands, The Netherlands. IPGRI 2006.
Descripteurs du Palmier dattier (Phoenix dactylifera L.). IPGRI, Rome, Italy. Zaid, Abdelouahhab and Arias-Jiménez, E.J. 2002. Date Palm Cultivation. FAO Plant Production and Protection Paper 156 Rev.1. FAO, Rome, Italy.

10. <u>Technical Questionnaire</u>

TECHN		UESTIONNAIRE	Page {x} of {y}	Reference Number:
				Application date: (not to be filled in by the applicant)
		TE to be completed in conr	CHNICAL QUESTIONNA ection with an application	IRE for plant breeders' rights
1.	Subject	of the Technical Questionn	aire	
	1.1	Botanical name	hoenix dactylifera L.	
	1.2	Common name	ate, Date Palm	
2.	Applica	nt		
	Name			
	Addres	s		
	Telepho	one No.		
	Fax No	. [
	E-mail a	address		
	Breede applica	r (if different from		
3.	Propos	ed denomination and breede	er's reference	
	Proposed denomination (if available)			
	Breede	r's reference		

TECHNICAL QUESTIONNAIRE			Page {x} of {y}	Reference Number:
#4.	Informa	tion on the breeding scheme	and propagation of the va	riety
	4.1	Breeding scheme		

TECHNICAL C	UESTIONNAIRE	Page {x} of {y}	Reference Number	r:
4.2 4.2.1	Method of propagating the Other (Please provide details)	variety		[]

ТЕСН	INICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
5.	Characteristics of the variety to be indicharacteristic in Test Guidelines; please	cated (the number in brack se mark the note which be	xets refers to the corresponding st corresponds).	
	Characteristics	E>	kample Varieties	Note

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 variety(ies) similar to your candidate variety from the similar	(s) in which Describe the variety differs the character similar simila	e expression of ristic(s) for the variety(ies) Describe the expression of the characteristic(s) for your candidate variety				
Example						
Comments:						

TECH	NICAL 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 o	r conducting the examination?			
	Yes []	No	[]			
	(If yes, please provide details)					
7.3	Other information					

TECH	INICAL	QUESTIONNAIRE		Page {x}	of {y}	F	Reference I	Number:		
8.	Authorization for release									
	(a)	Does the variety require prior authorization for release under legislation concerning the protection of th environment, human and animal health?								ction of the
		Yes []	No []							
	(b) Has such authorization been obtained?									
		Yes []		No	[]					
	If the a	answer to (b) is yes, plea	se attac	h a copy of	the authori	zatio	n.			
9. Inf	ormatio	n on plant material to be	examin	ed or subm	itted for exa	amina	ation			
9.1 pests roots	The and d tocks, s	e expression of a charact lisease, chemical treatn scions taken from differen	teristic c nent (e., nt growt	or several ch g. growth r h phases of	naracteristic etardants c a tree, etc.	s of a or pes	a variety ma sticides), ef	y be affected fects of tiss	d by factor ue culture	rs, such as e, different
9.2 T chara has u the b	The plancteristic Indergo Indest of ye	Int material should not cs of the variety, unless one such treatment, full o our knowledge, if the pla	have the con the con details o nt mate	undergone opetent auth f the treatm rial to be ex	any treatm norities allor nent must be camined has	ent w or i e give s bee	which would request sucten. In this re- n subjected	d affect the h treatment. espect, pleas to:	e expressi If the plan se indicate	on of the nt material below, to
	(a)	Microorganisms (e.	g. virus	bacteria, p	hytoplasma)	Ň	Yes []	No []
	(b)	Chemical treatmen	t (e.g. g	growth retardant, pesticide)			Ň	Yes []	No []
	(c)	Tissue culture					Ň	Yes []	No []
	(d)	Other factors					Ň	Yes []	No []
	Plea	ase provide details for wh	nere you	have indic	ated "yes".					
10.	10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:									
	Applicant's name			, 			•			
	-1- Ia.									
	Signature									

[End of document]