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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

ARGANIA

UPOV Code(s): ARGAN_SPI

Argania spinosa (L.) Skeels

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Morocco to be considered by the Technical Working Party for Fruit Crops at its fiftieth session, to be held in Budapest, Hungary, from 2019-06-24 to 2019-06-28

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:* Botanical name	English	French	German	Spanish	
J	Argania, Argantree, Goat-tree	Arganier, Bois de fer	Arganbaum	Argán	

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>

These Test Guidelines apply to all varieties of Argania spinosa (L.) Skeels.

- 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 bud sticks or trees.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

8 one-year-old grafted trees or 10 bud sticks.

- 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 two independent growing cycles.
- 3.1.2 The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles.
- 3.1.3 The growing cycle is considered to be the period ranging from the beginning of active vegetative growth or flowering, continuing through active vegetative growth or flowering and fruit development and concluding with the harvesting fruit.
- 3.1.4 In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two 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 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 8 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 8 plants or parts of plants taken from each of 8 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 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 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation the recommandation in the General Introduction and document TGP/13 "Guidance for new types and species". Section 4.5 Testing Uniformity should be followed.
- 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 8 plants, no 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 further examined by testing a new seed or 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:
 - (a) Tree: growth habit (characteristic 2)
 - (b) Shoot: attitude in relation to stem (characteristic 7)
 - (c) Leaf: shape (characteristic 9)
 - (d) Fruit: shape (characteristic 19)
 - (e) Stone: weight (characteristic 23)
 - (f) Stone: shape (characteristic 24)
- 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 français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota		
1 2	3	4	5	6	7			
	Name o charac in Engl	teristics	Nom o caract frança	tère en	Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states o express		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	e of plot, if applicable)	- see Chapter 4.1.5
5	(+)	See Explanations on the Table of	f Characteristics in Chapter 8.2
6	(a)-(f)	See Explanations on the Table of	f Characteristics in Chapter 8.1

7 Not applicable

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		
	Tree:	vigor						
	weak							3
	mediu	ım						5
	strong							7
2. (*)		VG	(+)					
	İ	growth habit		1				
	uprigh							1
	sprea							2
	droop							3
3.	QN	VG	(+)					
	Tree:	canopy density						
	sparse	e						1
	mediu	IM						2
	dense)						3
4.	QL	VG				1		
	Shoo domii	t: apical nance						
	absen							1
	prese							9
5.	QN	VG						
		t: density of		<u> </u>				
	oporo	~						1
	sparse							2
	dense							2
6. (*)		VG						5
·· ()		t: length of						
	short							3
	mediu	ım						5
	long							7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	QN	MG	(+)					•
		attitude in on to stem						
	upwar	ds						1
	outwa	rds						2
	downy	vards						3
8.	QN	VG		(a)		1		
	Leaf k color	blade: green of upper side		:				
	light g	reen						3
	mediu	m green						5
	dark g	reen						7
9. (*)	PQ	VG		(a)				
		shape		i				
	elliptic							1
	oblon							2
	obova							3
10. (*)		VG	(+)	(a)				
()	İ	1						
	Leaf k apex	blade: shape of						
	acute							1
	obtuse	9						2
	round	ed						3
11. (*)	PQ	VG	(+)	(a)		1	1	
	Leaf k base	blade: shape of		÷				
	attenu	ate						1
	acute							2
	obtuse	<i>j</i>						3
12. (*)		MG/VG		(a)				
		1		(4)		1		
	Leaf k	olade: length						
	short							3
	mediu	m						5
	long					T	T	7

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. (*)	QN	MG/VG	(a)		·		
	Leaf k	blade: width					
	narrov	v					3
	mediu	 m					5
	broad						7
14. (*)	QN	MG/VG	(a)				
	Leaf k lengti	blade: ratio h/width					
	low						3
	mediu	 m	+				5
	high						7
15.	QN	MG/VG	(a)				
	Petiol	e: length					
	short						3
	medium						5
	long						7
16.	PQ	VG	(+) (b)				
:	Inflor	escence location					
		ves axils					1
		branches					2
		ves axils and on					3
	the bra						0
17.	PQ	VG	(c)		1		
	Flowe	er: petal: color					
	white						1
	light y	ellow					2
	yellow						3
18.	PQ	VS	(d)				-
	Fruit:	color at maturity					
	mediu	m brown					1
	dark b						2
		ark brown	 				3
	black						4

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (*)	PQ	VG	(+)	(d)		•		
	Fruit:	shape						
	circula	ar						1
	elliptic	:						2
	ovate							3
	fusifor	m						4
20.	QN	MS/VS		(d)				·
	Fruit:	length						
	short							3
	mediu	 m						5
	long							7
21.	QN	MS/VS		(d)		•		
	Fruit: width							
	narrow							3
	medium							5
	broad							7
22.	QN	MS		(d)				L
	Fruit: lengti	ratio n/width						
	low							3
	mediu	m						5
	high							7
23. (*)	QN	MS/VG		(e)				
	Stone	: weight						
	low							3
	mediu	m						5
	high							7
24. (*)	PQ	VG	(+)	(e)				·
	Stone	: shape						
	round	ed						1
	elliptic	;						2
	fusifor	m						3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25.	QN	MS/VS	(e)				
	Stone	: length					
	short						3
	mediu	m					5
	long						7
26.	QN	MG/VG	(e)		•	•	
	Stone	: width	·				
	narrov	v					3
	mediu	m					5
	broad						7
27.	QN	MS	(e)		1		
	Stone length	: ratio h/width	i				
	low						3
	mediu						5
	high						7
28.	QN	VG	(e)				
	Stone	: shell: thickness					
	thin						1
	mediu	m					2
	thick						3
29.	QN	MS	(e)		·	·	
	Stone almor	: number of nd lodge					
	one						1
	two						2
	three						3
30.	QN	VG	(e)		·	•	
	Stone cracki	: resistance to ing					
	weak						1
	mediu						2
	strong						3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31.	QN	MS/VG	(f)				
	Kernel	: weight					
	low						3
	mediur	n					5
	high						7
32.	QN	MG/VG	(f)				
	Kernel	: length					
	short						3
	mediur	n					5
	long						7
33.	QN	MG/VG	(f)				
	Kernel	: width					
	narrow						3
	medium						5
	broad						7
34.	QN	MS	(f)				
	Kernel length	: ratio /width					
	low						3
	mediur	n					5
	high						7
35.	PQ	VG	(f)				
	Kernel	: shape					
	oblong						1
	ovoid				-		2
	ellipsoi	d					3
36.	QN	MG/MS	(f)		•		
	Kernel	: number					
	one						1
	two						2
	three						3
	more th	nan 3					4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
37.	PQ	VG	(f)				
	Kerne	el: color					
	white						1
	light y	ellow					2
	dark y	/ellow					3
38.	QN	MG/MS	(f)			•	
	Kerne	el: oil content					
	low (<	:39%)					3
	medium (between39% and 44%)						5
	high (>44%)					7
39.	QN	MG/MS	(f)				
	Kernel: ratio kernel weight / stone weight						
	low						3
	mediu	ım					5
	high						7
40.	QN	VG					
	Flowe flowe	er: time of ring					
	early						3
	medium						5
	late						7
41.	PQ	MG					-
	Flowe	er: self- npatibility					
	total						1
	partia	I					2
	abser	nt					3

- 8. <u>Explanations on the Table of Characteristics</u>
- 8.1 Explanations covering several characteristics

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

- (a) Observations should be made on fully developed leaves from the central part of one-year-old shoots in full growth.
- (b) Observations should be made on inflorescences from the central part of fruiting branches.
- (c) Observations should be made on the second or subsequent flowers, at the start of anther dehiscence.
- (d) Observations should be made on fully ripened fruits at time of ripening when 80% of the fruit on the tree has colored.
- (e) Observations should be made on dry well-cleaned stones of the same sample used for the observations on the fruit.
- (f) Observation on kernel should be made after crushing nuts.
- 8.2 Explanations for individual characteristics

Ad. 1: Tree: vigor

The tree vigor should be considered as the overall abundance of vegetative growth which includes the development of the canopy in both height and volume.

Ad. 2: Tree: growth habit

The tree growth habit states the natural attitude of the branches and shoots.



upright

spreading

ہ drooping

Ad. 3: Tree: canopy density

The canopy density refers to the overall abundance of canopy vegetation. The following measures should be taken into account, length of internodes, number and vigor of the shoots and the size of the leaves.



sparse

medium

dense

Ad. 7: Shoot: attitude in relation to stem

Observations should be made on 5 fruiting branches of each tree.



1 upwards

2 outwards

3 downwards

Ad. 10: Leaf blade: shape of apex



1 acute

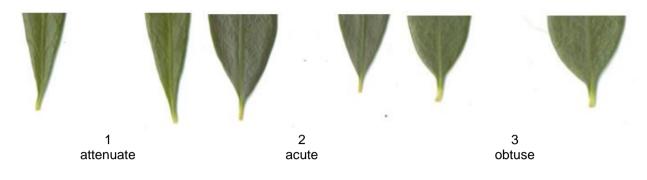


2 obtuse



3 rounded

Ad. 11: Leaf blade: shape of base



Ad. 16: Inflorescence location



1 on leaves axils

2 on the branches

on leaves axils and on the braches

Ad. 19: Fruit: shape



1 circular



elliptic







4 fusiform

Ad. 24: Stone: shape



1 rounded



2 elliptic



3 fusiform

9. <u>Literature</u>

10. <u>Technical Questionnaire</u>

TECH		QUESTIONNAIRE		Page {x} of {y}	Reference Number:	
					Application date: (not to be filled in by the applicant)	
		to be completed in		CHNICAL QUESTION	NAIRE ion for plant breeders' rights	
1.	Subjec	ct of the Technical Questi	onna	ire		
	1.1	Botanical name	Ar	gania spinosa (L.) Ske	eels	
	1.2	Common name	Ar	Argania		
2.	Applic	ant				
	Name					
	Addre	SS				
	Teleph	none No.				
	Fax No	0.				
	E-mail	address				
	Breed applica	er (if different from ant)				
3.	Propos	sed denomination and br	eedei	's reference		
	Proposed denomination (if available)					
	Breed	er's reference				

TECHN	ICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number:
#4.	Information	tion on the breeding scheme	and propagation of the var	iety
	4.1	Breeding scheme		
	Variety	resulting from:		
	4.1.1	Crossing		
	(a)	controlled cross	[]	
		(please state parent varietie		()
		female parent		male parent
	(b)	partially known cross (please state known parent	variety(ies))	[]
		(please state known parent (()
		female parent		male parent
	(c)	unknown cross		[]
	4.1.2	Mutation (please state parent variety)		[]
	4.1.3	Discovery and development (please state where and whe	en discovered and how de	[] veloped)
	4.1.4	Other (Please provide details)		[]

TECHNICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number	r:
4.2	Method of propagating the	vorioty		
4.2	Vegetative propagation	vallety		
(a) (b) (c) (d) 4.2.2	Cuttings <i>In vitro</i> propagation Budding or grafting Other (state method) Other			
	(Please provide details)]

TECH	NICAL QUESTIONNAIRE	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).								
1	Characteristics	Example Varieties	Note					
5.1 (1)	Tree: vigor							
	weak		3[]					
	medium		5[]					
	strong		7[]					
5.2 (2)	Tree: growth habit							
	upright		1[]					
	spreading		2[]					
	drooping		3[]					
5.3 (7)	Shoot: attitude in relation to stem							
	upwards		1[]					
	outwards		2[]					
	downwards		3[]					
5.4 (19)	Fruit: shape							
	circular		1[]					
	elliptic		2[]					
	ovate		3[]					
	fusiform		4[]					
5.5 (23)	Stone: weight							
	low		3[]					
	medium		5[]					
	high		7[]					
5.6 (24)	Stone: shape							
	rounded		1[]					
	elliptic		2[]					
	fusiform		3[]					

TECHNICAL QUESTION	NAIRE	Page {x} of	{y}	Reference Nu	ımber:			
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	Characteristic your candidate from the simila	variety differs	Describe the expression of the characteristic(s) for the similar variety(ies)		Describe the expression o the characteristic(s) for you candidate variety			
Example	Example Fruit: s		medium		large			
Comments:								

TECHN		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 th	ere any special conditions for	growing the variety or cor	nducting the examination?				
	Yes	[]	No	[]				
	(If yes,	please provide details)						
7.3	Other	information						
Techni supple The ke • • versior Furthe "Develo	 7.3 Other information A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire. The key points to consider when taking a photograph of the candidate variety are: Indication of the date and geographic location Correct labeling (breeder's reference) Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)" Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/). 							

TEC	HNICA	L QUESTIC	ONNAIRE	Page {x}	of {y}	Referenc	e Number:			
8.	Autho	uthorization 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)	b) Has such authorization been obtained?								
		Yes []	No	[]					
	If the	answer to (b)) is yes, please atta	ch a copy of	the authorizat	ion.				
9. In	formati	on on plant m	naterial to be exami	ned or subm	itted for exami	nation				
9.1	Th	e expression	of a characteristic	or several cl	aracteristics c	f a varietv r	nav he affected h	v factor	s such as	
pest	s and	disease, che	mical treatment (e from different grow	.g. growth r	etardants or p					
				·						
char	acterist	ics of the val	should not have riety, unless the co atment, full details	mpetent aut	norities allow o	or request s	uch treatment. If	the plan	t material	
			ge, if the plant mate							
	(a)	Microo	rganisms (e.g. virus	s, bacteria, p	hytoplasma)		Yes []	No []	
	(b)	Chemi	cal treatment (e.g. (growth retard	lant, pesticide)		Yes []	No []	
	(c)	Tissue	culture				Yes []	No []	
	(d)	Other f	actors				Yes []	No []	
	Ple	ase provide o	details for where yo	u have indic	ated "yes".					
10.	D. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:									
	Applicant's name									
	Sic	gnature				Date				

[End of document]