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# INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

## DRAFT

#### **QUINOA**

UPOV Code(s): CHENO\_QUI

Chenopodium quinoa Willd.

#### **GUIDELINES**

#### FOR THE CONDUCT OF TESTS

### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Denmark

to be considered by the

Technical Working Party for Agricultural Crops at its forty-fifth session, to be held in Mexico City, Mexico, from 2016-07-11 to 2016-07-15

Disclaimer: this document does not represent UPOV policies or guidance

#### Alternative names:\*

Botanical name	English	French	German	Spanish
Chenopodium quinoa Willd.	Goosefoot, Pigweed; Quinoa	Chénopode quinoa, Quinoa	Getreidekraut, Kleiner Reis von Peru, Reisspinat	Quinoa, Quinua

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.]

## TG/CHENO(proj.3) Quinoa, 2016-06-03

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## 1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of Chenopodium quinoa Willd.

### 2. Material Required

- 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 seeds.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

200 g of seed.

The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.

- 2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

## 3. 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 The optimum stage of development for the assessment of each characteristic is indicated by a number in the second column of the Table of Characteristics. The stages of development denoted by each number are described in Chapter 8.
- 3.4 Test Design
- 3.4.1 Each test should be designed to result in a total of at least 160 Plants, which should be divided between at least 2 replicates.

#### 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 40 plants or parts of plants taken from each of 40 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 1.

### 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 nonlinear 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.

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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 For the assessment of uniformity of self-pollinated varieties, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 160 plants, 6 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 stock to ensure that it exhibits the same characteristics as those shown by the initial 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) Inflorescence: shape of clusters (characteristic 12)
  - (b) Panicle: distribution (characteristic 15)
  - (c) Panicle: color (characteristic 17)
  - (d) Grain: saponin (characteristic 23)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

#### 6. Introduction to the Table of Characteristics

#### 6.1 Categories of Characteristics

#### 6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

#### 6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

- 6.2 States of Expression and Corresponding Notes
- 6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.
- 6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

### 6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

### 6.4 Example Varieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

## 6.5 Legend

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1 2	3 4	5 6	7			
	Name of characteristics in English	Nom du caractère en français	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 Qualitative characteristic – see Chapter 6.3
QN Quantitative characteristic – see Chapter 6.3
PQ Pseudo-qualitative characteristic – see Chapter 6.3

4 Method of observation (and type of plot, if applicable)

MG, MS, VG, VS – see Chapter 4.1.5

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. (*)	PQ	VG			5			
	Folia	ge: Color						
	Light	green						1
	Mediu	ım green					Titicaca	2
	Dark (							3
	Red							4
	Purple	Э					Carmen	5
2.	QN	VG			5			
	Foliaç glauc	ge: intensity of osity						
		nt or weak						1
	mediu	ım					Riobamba	3
	strong	]						5
3.	PQ	VG	(+)		6			_
	Leaf s	shape						
	rhomb	ooid						1
	interm	nediate						2
	triang	ular						3
4.	QN	VG	(+)		6			
	margi			·				
		nt or weak						1
	mediu	ım					Carmen	3
	strong	]						5
5.	QN	VG	(+)		6			
	Leaf:	size						
	small							3
	mediu	ım					Titicaca	5
	large							7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6. (*)	QN	MG	(+)		8	•		•
	Time	of flowering						
	early		préco	ce	früh	temprana		3
	mediu	ım	moyer	nne	mittel	media	Carina	5
	late		tardive	9	spät	tardía		7
7.	QN	MG/VG	(+)		8			
	Plant	: height						
	short							3
	mediu	ım					Riobamba	5
	tall							7
8.	PQ	VG			9	•		
	Inflor	escence: color						
	green						Titicaca	1
	yellow	1						2
	orang	е						3
	red							4
	purple	<del>)</del>					Carmen	5
9.	PQ	VG			10			
	Stem:	: color						
	green		••••••				Titicaca	1
	yellow	1						2
	purple	)					Carmen	3
10.	PQ	VG	(+)		10			
	Stem:	color of stripes						
	absen	ıt					Riobamba	1
	yellow	<i>I</i>					Titicaca	2
	pink						Atlas	3
	red							4

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
11.	QN	VG	(+)		10			·
	Stem: pigme axil	intensity of entation at leaf						
	absen	t or very weak						1
	weak						Pasto	3
	mediu	m						5
	strong							7
12. (*)	QL	VG	(+)		10			
:	Inflore of clu	escence: shape sters		·				
	Key sl	hape/glomerulate					Titicaca	1
	Amara	anth shape						2
13.	QN	VG	(+)		10	1		
•	Stem:	branching		•				
	absen	t or very weak						1
	mediu	m						3
	very s	trong						5
14.	QL	VG			11	1		
	Plant: prima	attitude of ry ramification		•				
	slight	predominantly						1
	basal							2
15. (*)	PQ	VG	(+)		11	1		
	Panic	le: distribution		·				
	toward	ds terminal						1
	across	s plant						2
16.	QN	VG			11	•	,	
	Panic	le: density						
	lax		<b> </b>					3
	mediu	m					Riobamba	5
	dense							7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17. (*)	PQ	VG	(+)		11			
	Panic	le: color						
	white						Jessie	1
	yellow	 !						2
	orang						Titicaca	3
	pink							4
	red						Riobamba	5
	purple						Carina	6
18.	QN	MG/VG	(+)		12			
	Plant	height		•				
								2
	short						Titicaca	3 5
	tall						TILICACA	7
19.	QN	MG/VG	(+)		12			
13.			(+)		12			
	Panic	le: length						
	short							3
	mediu	ım					Riobamba	5
	long							7
20.	QN	MG/VG	(+)		12	1		T
	Panic	le: width						
	Narro	 W						3
	Mediu	m						5
	Broad							7
21.	QN	MG			12	•	1	
	Panic matur	le: time of ity						
	early							3
	mediu	ım						5
	late							7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (*)	PQ	VG	(+)		12			
	Seed:	color						
	whitish	 I					Atlas	1
	yellow							2
	red							3
	light br	own					Titicaca	4
	grey							6
	black							7
23. (*)	QL	MG			12			
	Grain:	saponin						
	absent							1
	preser	ıt						9

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

### 8.1 Explanations for individual characteristics

## Ad. 3: Leaf shape

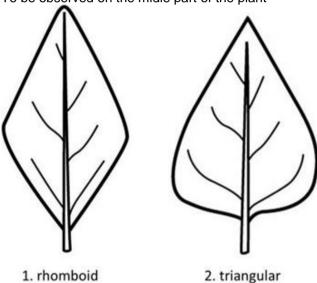
To be observed on middle part of the plant

### Ad. 4: Leaf: dentation on margin

To be observed on middle part of the plant

### Ad. 5: Leaf: size

To be observed on the midle part of the plant



## Ad. 6: Time of flowering

Time of flowering is when 50% of plants have open flowers on the top third of the inflorescence

## Ad. 7: Plant: height

to be observed from base to top of panicle at time of flowering

## Ad. 10: Stem: color of stripes

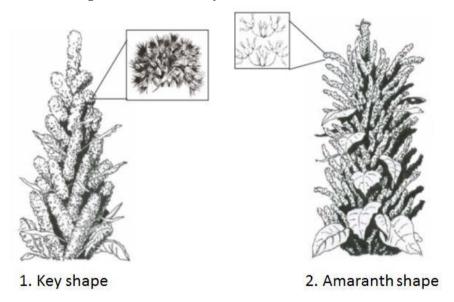
To be observed on the lower part of the stem

### Ad. 11: Stem: intensity of pigmentation at leaf axil

To be observed on middle part of the plant

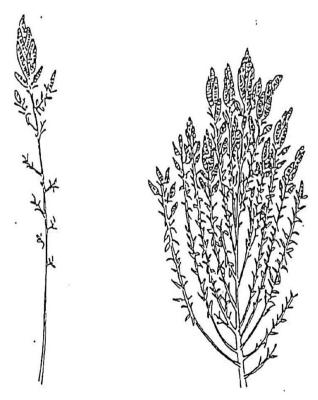
## Ad. 12: Inflorescence: shape of clusters

Key shape/glomerulate: small groups of flowers originate from tertiary axes. Amaranth shape: small groups of flowers originate from secondary axes



## Ad. 13: Stem: branching

the number of branches with inflorescences should be observed



1: weak tendency to branch

5: strong tendency to branch

## Ad. 15: Panicle: distribution

Towards terminal: seed head can be easily differentiated from the rest of the plant. Distributed across plant: racimes are distributed over more than half of the plant's length.

### Ad. 17: Panicle: color

to be observed at maturity of plants

### Ad. 18: Plant: height

to be observed from base to top of panicle to be observed at maturity of plants

## Ad. 19: Panicle: length

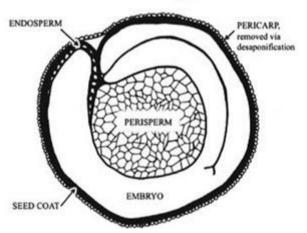
to be observed at main stem of plants, panicle begins when side branches are less than 2 cm apart a drawing will be elaborated

### Ad. 20: Panicle: width

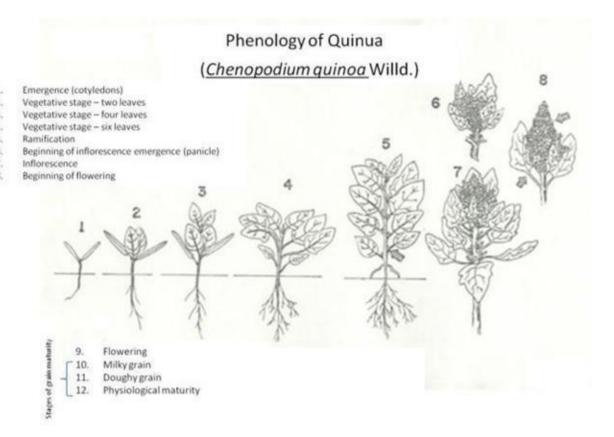
to be observed at main stem of plants, panicle begins when side branches are less than 2 cm apart a drawing will be elaborated

#### Ad. 22: Seed: color

### Seed morphology







## 9. <u>Literature</u>

Jacobsen, S.-E., Stølen, O., 1993: Quinoa - Morphology, phenology and prospects for its production as a new crop in Europe. European Journal of Agronomy 2(1). Frederiksberg, DK, 19 to 29

Mujica, A., Canahua, A., 1989: Fenología del cultivo de la quinua. En Curso Taller de Fitopatología de Cultivos Andinos y Uso de la Información Agrometeorológica. PICA. INIIA. Puno, PE

# 10. <u>Technical Questionnaire</u>

TECHN	IICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number:	
				Application date: (not to be filled in by the applicant)	
			TECHNICAL QUESTIONNAII		
1.	Subject	of the Technical Questionna	aire		
	1.1	Botanical name	thenopodium quinoa Willd.		
	1.2	Common name	Goosefoot, Pigweed; Quinoa		
2.	Applica	nt			
	Name				
	Address	5			
	Telepho	one No.			
	Fax No.				
	E-mail a	address			
	Breeder applicar	r (if different from nt)			
3.	Propose	ed denomination and breede	er's reference		
	Propose (if availa	ed denomination able)			
	Breeder	r's reference			

INICAL QUESTIONNAIRI	Page {x} of {y}	Reference Number:
Information on the breedi	ng scheme and propagation of the varie	ty
4.1 Breeding schem	e	
Variety resulting from:		
4.1.1 Crossing		
(a) controlled cross		[ ]
(please state pare	ent varieties)	
(	x (	)
female parent	male pa	rent
(b) partially known cr	OSS	[ ]
(please state kno	wn parent variety(ies))	
(	x (	)
female parent	male pa	rent
(c) unknown cross		[ ]
4.1.2 Mutation		[ ]
(please state parent varie	ty)	
4.1.3 Discovery and of	development	[ ]
(please state where and v	when discovered and how developed)	
4.1.4 Other		[ ]
(please provide details)		

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

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4.2 4.2.1	Method of propagating the variety Seed-propagated varieties	
(a) (b)		
4.2.2	Other [ ] (Please provide details)	

TECHNICAL 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).

	Characteristics	Example Varieties	Note
5.1	Inflorescence: shape of clusters		
(12)	·		
	Key shape/glomerulate	Titicaca	1[]
	Amaranth shape		2[]
5.2	Panicle: distribution		
(15)			
	towards terminal		1[]
	across plant		2[]
5.3	Panicle: color		
(17)			
	white	Jessie	1[]
	yellow		2[]
	orange	Titicaca	3[]
	pink		4[]
	red	Riobamba	5[]
	purple	Carina	6[]

TECHNICAL QUESTIONN	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 similar	variety differs	the characte	expression of ristic(s) for the variety(ies)	Describe the expression of the characteristic(s) for <b>you</b> candidate variety	
Example Panicle		: color	r	red	orange	
Comments:						

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TECHN	IICAL QUESTIO	NNAIRE	Page {x} of {y}	Reference Number:		
1						
#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 distinguist the variety?					
	Yes [ ]		No	[]		
	(If yes, please pro	ovide details)				
7.2	Are there any special conditions for growing the variety or conducting the examination?					
	Yes [ ]		No	[]		
	(If yes, please pro	ovide details)				
7.3	Other information	า				
Question the Text The key of the Sey of the	onnaire. The photo chnical Questionnally points to conside Indication of the Correct labeling Good quality pring 280 pixels)" r guidance on provenes", Guidance No	ograph will provide a ire. er when taking a phodate and geographi (breeder's reference ted photograph (mixiding photographs wate 35 (http://www.up	otograph of the candidate variety are: c location e) nimum 10 cm x 15 cm) and/or sufficient reso	hich supplements the information provided in blution electronic format version (minimum in document TGP/7 "Development of Test		

8.	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	n authorization bee	n obtained?				
		Yes	[]	No	[]			
	If the answer to (b) is yes, please attach a copy of the authorization.							
9. Inf	ormatio	on on plan	t material to be exa	amined or submi	tted 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)	Micro	oorganisms (e.g. v	irus, bacteria, pł	nytoplasma)	Yes [ ]	No [ ]	
	(b)	Chei	mical treatment (e.	g. growth retarda	ant, pesticide)	Yes [ ]	No [ ]	
	(c)	Tiss	ue culture			Yes [ ]	No [ ]	
	(d)	Othe	er factors			Yes [ ]	No [ ]	
	Please provide details for where you have indicated "yes".							
10.	10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:							
	Арр	Applicant's name						
	Sig	ınature				Date		

[End of document]