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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 fifty-first session, to be held in Nîmes, France, from 2020-07-06 to 2020-07-10

Disclaimer: this document does not represent UPOV policies or guidance

### Alternative names:\*

Botanical name	English	French	German	Spanish
Argania spinosa (L.) Skeels, Argania sideroxylon Roem. & Schult.	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.

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/ARGAN(proj.5) Argania, 2020-05-29

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### 1. Subject of these Test Guidelines

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:

5 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. Method of Examination

- 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.
- 3.1.5 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

### 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 5 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 5 plants or parts of plants taken from each of 5 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 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.

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 recommendations 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 assassment 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 5 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. 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) 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 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 o caract frança	tère en	Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states		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 8.2

6 (a)-(f) See Explanations on the Table of 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	(+)				
	Tree: vigor					
	weak					3
	medium				Badr	5
	strong				Inargane	7
2. (*)		(+)				
=	Tree: growth habit		-			
	upright				Inargane	1
	spreading					2
	drooping				Yargana	3
3.	QN VG	(+)				•
	Tree: canopy density	,				
						1
	sparse				Badr	
	dense				Inargane, Yargana	3
4.	QL VG				margane, rargana	] 3
*	<u> </u>				T	
	Shoot: apical dominance					
	absent				Badr, Inargane	1
	present				Yargana	9
5.	QN VG				<u> </u>	
	Shoot: density of spines					
	sparse					1
	medium				Badr, Yargana	2
	dense				Inargane	3
6. (*)	QN VG			•	•	•
•	Shoot: length of internode					
	short				Badr, Inargane	3
	medium				Yargana	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					Badr, Yargana	1
	outwa	rds					Inargane	2
	down	vards						3
8.	QN	VG		(a)			•	,
-	Leaf b green side	blade:intensity of color of upper		•				
	light						Badr	1
	mediu	m					Inargane, Yargana	2
	dark							3
9. (*)	PQ	VG	(+)	(a)				
	Leaf: shape			•				
								-
		narrow elliptic					Badr, Inargane	1
	broad elliptic							2
	narrov	v obovate						3
		obovate						4
10. (*)	PQ	VG	(+)	(a)				İ
	Leaf back	olade: shape of						
	acute						Inargane, Yargana	1
	obtuse	9					Badr	2
	round	ed						3
11. (*)	PQ	VG	(+)	(a)				
	Leaf b	plade: shape of						_
	attenu	ate						1
	acute							2
	obtuse	·····	<b>†</b>				Badr, Inargane, Yargana	3
12. (*)	QN	MG/VG		(a)		,	•	•
	Leaf b	blade: length		•				
	short							1
	mediu	m					Badr, Inargane, Yargana	2
	long							3

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. (*)	QN	MG/VG		(a)				
_	Leaf b	lade: width						
	narrow	 1					Inargane	1
	mediu	m					Badr, Yargana	2
	broad							3
14. (*)	QN	MG/VG		(a)				J
-	Leaf blade: ratio length/width							
	low							1
	mediu	m					Badr, Yargana	3
	high						Inargane	5
15.	QN	MG/VG		(a)				
	Petiole: length							
	short							1
	medium						Badr, Inargane, Yargana	2
	long							3
16.	QL	VG	(+)	(b)				ļ.
-	Inflore	scence location	•					
	in leaf	axils						1
	on bra							2
		axils and on					Badr, Inargane, Yargana	3
17.	PQ			(b)				
	Petal:	:						
	white							1
	light ye	ellow					Badr, Inargane, Yargana	2
	yellow							3
18.		VG		(d)				
	Fruit:	color at maturity						
	light bi	own						1
		m brown					Badr	2
	dark b	rown					Inargane, Yargana	3
	black							4

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (*)	PQ	VG	(+)	(d)				,
-	Fruit:	shape						
	ovate						Inargane, Yargana	1
	elliptic	elliptic					Badr	2
	circula	circular						3
	fusifor	m						4
20.	QN	MG/VG		(d)				
	Fruit: length							
	short						,	1
	mediu	medium					Yargana	3
	long						Badr, Inargane	5
	QN	MS/VS		(d)				
	Fruit: width							
	narrow							1
	medium						Badr, Inargane, Yargana	3
	broad							5
22.	QN	MS		(d)			•	
	Fruit: length	ratio n/width						
	low							1
	mediu	m					Yargana	3
	high						Badr, Inargane	5
23. (*)	QN	MG		(e)				_
	Stone	: weight						
	low							1
	mediu	m						3
	high						Badr, Inargane, Yargana	5
24. (*)	PQ	VG	(+)	(e)				
	Stone	: shape						
	rounde	ed					Inargane	1
	board	elliptic					Badr	2
		v elliptic					Yargana	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25.	QN	MS	(e)				•
-	Stone	e: length	=				
	short						1
	mediu	ım				Inargane	3
	long					Yargana	5
26.	QN	MS	(e)		<u> </u>		
-	Stone	e: width	-				
	narrov	N					1
	mediu	ım				Inargane	3
	broad						5
27.	QN MS		(e)		<u>'</u>	<b>,</b>	<u>,</u>
-	Stone: ratio length/width						
	low						1
	mediu	ım				Inargane	3
	high					Badr	5
28.	QN	VG	(e)				
	Stone	e: shell: thickness					
	thin						1
	mediu	ım					2
	thick					Yargana	3
29.	QN	MS	(e)				
	Stone	e: number of nd lodges					
	one					Yargana	1
	two					Badr	2
	three					Inargane	3
30.	QN	VG	(e)				•
	Stone	e: resistance to ing					
	weak						1
	mediu	ım				Yargana	2
	strong	J				Inargane	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31.	QN MS	(f)			•	•
	Kernel: weight					
	low					1
	medium				Badr, Inargane	3
	high				Yargana	5
32.	QN MS	(f)		<del>'</del>		Ţ
	Kernel: length					
	short					1
	medium				Inargane	3
	long				Yargana	5
33.	QN MS	(f)				
-	Kernel: width					
	narrow					1
	medium				Badr	3
	broad					5
34.	QN MS	(f)		<u>'</u>	- 1	II.
	Kernel: ratio length/width					
	low					1
	medium				Inargane	3
	high				Yargana	5
35.	PQ VG	(f)				
	Kernel: shape					
	oblong					1
	ovoid					2
	ellipsoid				Badr	3
36.	QN MG/MS	(f)				· ·
	Kernel: number					
	one				Yargana	1
	two				Badr	2
	three				Inargane	3
	more than 3					4

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
37.	PQ	VG		(f)				
	Kernel: color							
	white	hite						1
	light y	rellow					Inargane	2
	dark	ellow						3
38.	QN	MG/MS		(f)				
	Kerne	el: oil content						
	low						Yargana	1
	medium						Badr	2
	high							3
39.	QN	MG/MS		(f)				
	Kernel: ratio kernel weight / stone weight							
	low						Yargana	3
	mediu	ım						5
	high							7
40.	QN	VG	(+)					
	Flowe	er: time of nning of flowering						
	early						Badr	3
	mediu	ım					Yargana	5
	late							7
41.	QL	MG	(+)	Į.				
	Plant: self-incompatibility							
	abser	absent						1
	prese	nt						9

## 8. Explanations on the Table of Characteristics

### 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 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.



Image of tools used in crushing nuts

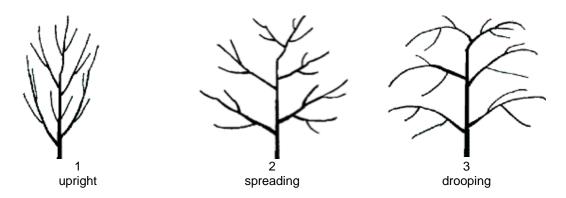
## 8.2 Explanations for individual characteristics

### 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.



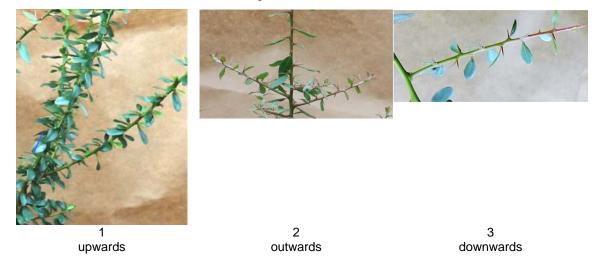
## Ad. 3: Tree: canopy density

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.



## Ad. 7: Shoot: attitude in relation to stem

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



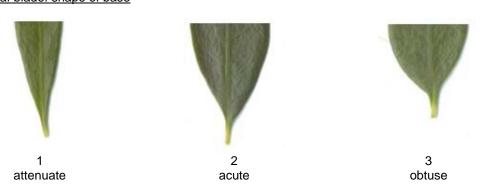
Ad. 9: Leaf: shape



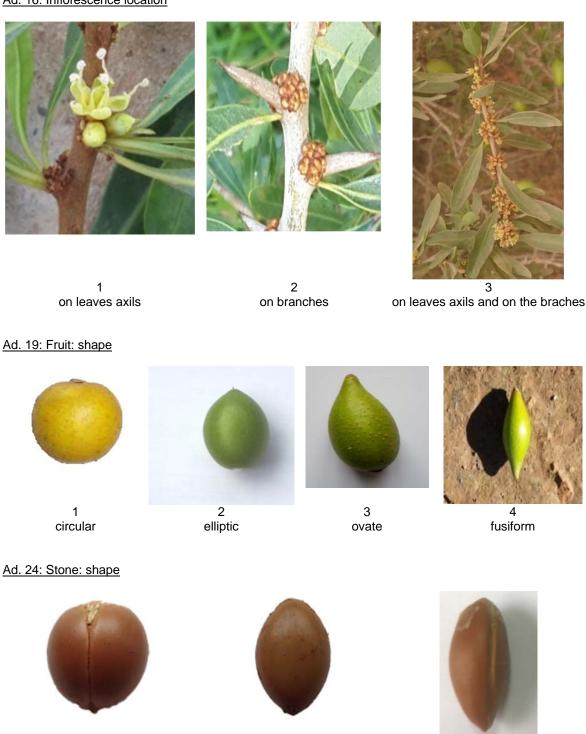
Ad. 10: Leaf blade: shape of apex



Ad. 11: Leaf blade: shape of base



## Ad. 16: Inflorescence location



Ad. 40: Flower: time of beginning of flowering

The beginning of flowering is when 10% of flowers have fully opened.

## Ad. 41: Plant: self-incompatibility

rounded

A variety is self-incompatible when the fertile pollen of its own flower or of other flowers of the same variety is not able to fertilize the ovary.

broad elliptic

3

narrow

9. <u>Literature</u>

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

TECHN	NICAL C	UESTIONNAIRE		Page {x} of {y}	Reference Number:	
					Application date: (not to be filled in by the applicant)	
				CHNICAL QUESTIONNA oction with an application	IRE for plant breeders' rights	
1.	Subject	of the Technical Question	nai	re		
	1.1 Botanical name		Argania spinosa (L.) Skeels			
	1.2	Common name	Arg	gania, Argantree, Goat-t	ree	
2.	Applica Name	nt				
	Addres					
	Telepho					
	Fax No					
		address				
	Breede applica	r (if different from nt)				
3.	Propos	ed denomination and bree	der	's reference		
	Propose (if available)	ed denomination able)				
	Breede	r's reference				

TECHN	IICAL Q	UESTIONNAIRE	Page {x} of {y}	I	Reference Number	r:
#4.	Informat	tion on the breeding scheme	and propagation of the	ne vari	ety	
	4.1	Breeding scheme				
	Variety	resulting from:				
	4.1.1	Crossing				
	(a)	controlled cross				[]
		(please state parent variety	·)			
		(	)	x	(	)
		female parent			male parent	
	(b)	partially known cross				[]
		(please state known parent	variety(ies))			
		(	)	x	(	)
		female parent			male parent	
	(c)	unknown cross				[ ]
	4.1.2	Mutation (please state parent variety	)			[]
	4.1.3	Discovery and developmen (please state where and where a specific and white a		ow dev	veloped)	[]
	4.1.4	Other (Please provide details)				[]

TECHNICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number	:
4.2 4.2.1 (a)	Method of propagating the Vegetative propagation Cuttings	variety		[]
(b) (c) (d)	In vitro propagation Budding or grafting Other (state method)			
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 (1)	Tree: vigor		
	very weak		1[]
	very weak to weak		2[]
	weak		3[]
	weak to medium		4[]
	medium	Badr	5[]
	medium to strong		6[]
	strong	Inargane	7[]
	strong to very strong		8[]
	very strong		9[]
5.2 (2)	Tree: growth habit		
	upright	Inargane	1[]
	spreading		2[]
	drooping	Yargana	3[]
5.3 (7)	Shoot: attitude in relation to stem		
	upwards	Badr, Yargana	1[]
	outwards	Inargane	2[]
	downwards		3[]
5.4 (19)	Fruit: shape		
	ovate	Inargane, Yargana	1[]
	elliptic	Badr	2[]
	circular		3[]
	fusiform		4[]
5.5 (23)	Stone: weight		
	low		1[]
	low to medium		2[]
	medium		3[]
	medium to high		4 [ ]
	high	Badr, Inargane, Yargana	5[]

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Characteristics		Example Varieties	Note
5.6 (24)	Stone: shape		
	rounded	Inargane	1[]
	board elliptic	Badr	2[]
	narrow elliptic	Yargana	3[]

NAIRE Page {x} of	{y} Reference N	umber:					
6. Similar varieties and differences from these varieties							
Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.							
Characteristic(s) in which your candidate variety differs	Describe the expression of the characteristic(s) for the	Describe the expression of the characteristic(s) for <b>your</b>					
Fruit: size	medium	large					
	differences from these varieties  ble and box for comments to  s) which, to the best of your arity to conduct its examination  Characteristic(s) in which  your candidate variety differs	differences from these varieties  ble and box for comments to provide information on how as which, to the best of your knowledge, is (or are) most arity to conduct its examination of distinctness in a more efficient characteristic(s) in which your candidate variety differs the characteristic(s) for the					

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TECHNICAL 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 the	ere any special conditions for	growing the variety or con	ducting the examination?			
	Yes	[1]	No	[]			
	(If yes,	please provide details)					
7.3	Other i	nformation					
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/).  [The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]							

TECH	HNICA	L QUEST	ΓΙΟΝΝΑΙRE	Page {x} o	f {y}	Reference	: Number:	
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)	b) Has such authorization been 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 exan	nined or submi	tted for exar	nination		
	and o	disease, c	on of a characteristichemical treatment (en from different gro	e.g. growth re	tardants or			
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)	Micr	oorganisms (e.g. vir	us, bacteria, ph	ytoplasma)		Yes [ ]	No [ ]
	(b) Chemical treatment (e.g. gr		growth retarda	growth retardant, 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:							
	Applicant's name							
	Sig	ınature				Date		

[End of document]