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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

## **MACADAMIA**

UPOV Code(s): MACAD\_INT; MACAD\_TET

Macadamia tetraphylla L. Johns.; Macadamia integrifolia Maiden et Betche

#### **GUIDELINES**

#### FOR THE CONDUCT OF TESTS

#### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Australia
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
Macadamia integrifolia Maiden et Betche	Macadamia, Queensland Nut	Macadamia	Macadamia	Macadamia
Macadamia tetraphylla L. Johns.	Macadamia, Queensland Nut	Macadamia	Macadamia	Macadamia

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. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Macadamia integrifolia* Maiden et Betch and *Macadamia tetraphylla* L. Johns. and hybrids of these species..

## 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 grafted plants on a rootstock specified by the authority.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

10 plants

- 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 In particular, it is essential that the plants 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 active vegetative growth or flowering, continuing through active vegetative growth or flowering and fruit development and concluding with the harvesting of fruit.
- 3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, quidance is provided in TGP/9 "Examining Distinctness".

3.3 Conditions for Conducting the Examination

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.

- 3.4 Test Design
- 3.4.1 Each test should be designed to result in a total of at least 10 plants.
- 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 10 plants or parts taken from each of 10 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 2.

All observations should be made on at least 3 year old trees.

## 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.

6

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 All observations should be made on at least 3 year old trees
- 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 {to be completed} 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 10 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. 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) Plant: growth habit (characteristic 1)
  - (b) Plant: height (characteristic 2)
  - (c) Plant: angle of primary branches (characteristic 3)
  - (d) Stem: texture of surface (characteristic 5)
  - (e) Leaf blade: shape (characteristic 10)
  - (f) Inflorescence: color (characteristic 22)
  - (g) Shell: shape (in lateral view) (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)

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	(+)					
		Plant:	growth habit						
	,	upright						MRG-20	1
			to spreading					WING 20	2
									3
		droopir						KRG-15	4
2. (	(*)		MS/VG						<u> </u>
	( )	Plant:							
	•	short							3
		mediun	n						5
		Tall							7
3.	(*)	QN	VG						
:		Plant: angle of primary branches			:				
	•	acute						MiniMaca	1
		interme	ediate						2
	•	obtuse							3
4.		QN	VG	(+)					•
		Plant: foliage	density of						
		sparse		lâche		locker	laxa		3
		mediun	n	moyer	nne	mittel	media		5
		dense	:	dense	;	dicht	densa		7
5. (	(*)	QN	VG						1
		Stem:	texture of e						
		smooth	1	lisse		glatt	lisa		1
		mediun	n						2
		rough							3
6.		QL	VG						
		Leaf: p	petiole						
		absent						Kabere, MiniMaca	1
		presen	t			+		KMB-3, KRG-15, MRG- 20, MRG-25	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7.	QN	MS/VG					
	Petiol	e: length					
	short					KMB-3, MRG-20, MRG- 25	1
	mediu	m				EMB-1	2
	long					KRG-15	3
8.	QN	MS/VG					
	Leaf b	olade: length					
	short					MiniMaca	3
	mediu	m				Daleys Dwarf, KRG-15, MRG-20, MRG-25	5
	long					Own Venture	7
9.	QN	MS/VG					
	Leaf blade: width						
	narrov	v				MiniMaca	3
	medium					KRG-15, MRG-20, MRG- 25	5
	broad					Daddow	7
10. (*)	PQ	VG	(+)				,
	Leaf b	olade: shape					
	lanced	olate					1
	ovate						2
	oblong	]					3
	elliptic						4
	obland	ceolate					5
	obova	te					6
11.	PQ	VG			,		
	Leaf blade: shape of apex						
	apicul	ate				MiniMaca	1
	acumi	nate					2
	acute					Kabere, KMB-3, KRG-15	3
	obuse					Daleys Dwarf, EMBU-1, MRG-20, MRG-25	4

	E	nglish	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.	PQ V	G					
	Leaf blad base	e: shape of					
	attenuate						1
	acute						2
	obtuse						3
13. (*)	QN V	G					
·	Leaf blade: undulation of margin		·				
	very weak						1
	weak					Daleys Dwarf, EMB-1, MRG-25	2
	medium					KMB-3, KRG-15, MRG-20	3
	strong						4
	very strong					MiniMaca	5
14.	QN V	G					
	Leaf blade: incisions of margin						
	shallow						3
	medium						5
	deep						7
15. (*)	QN V	G			l		
·	Leaf blad spines or	e: number of n margin	·				
	absent or	very few				Daleys Dwarf	1
	few					MRG-20	3
	medium					EMB-1, KRG-15	5
	many					KMB-3, MiniMaca	7
	very many	/				Kabere	9
16.	PQ V		_				
:	Young lea	af blade:					
	RHS Colour Chart (indicate reference number)						

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.	PQ	VG					
	Young	g leaf blade:					
	yellow	green					1
	light g	reen				EMB-1, KRG-15, MRG-20	2
	mediu	m green					3
	brown					KMB-3	4
	reddis	h					5
	purple						6
18.	QN	VG			l		
	intens	e leaf blade: sity of green on upper side	i				
	light						1
	medium						2
	dark						3
19.	QN	MS/VG			l		l
•	Inflore	escence: length	·				
	short						3
	mediu	m					5
	long						7
20.	QN	VG					
•	Inflore of flo	escence: density wers	·				
	sparse	)					1
	mediu	m					2
	dense						3
21.	QN	VG					
	Inflore	escence: attitude					
	semi e	erect					1
	semi e	erect to horizontal					2
	horizo	ntal					3
	semi d	drooping					4
	droopi	ng					5

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (*)	QL	VG			•		
	Inflore	escence: color					
	white					Daleys Dwarf, EMB-1, KRG-15, MRG-20, MRG- 25	1
	pink					KMB-3, MiniMaca	2
23.	QN	VG	(a)		1		
•	Shell:	size					
	small						1
							2
	mediu						
24. (*)	large	VG	(a)				3
	Shell: shape (in lateral view)		i				
	ovate						1
	oblate					MRG-20, MRG-25	2
	circula	ar				Daleys Dwarf, EMB-1, KMB-3, MiniMaca	3
	obova	te				Kabere	4
25.	QN	VG	(a)				
	Shell: surfac	texture of					
	smoot	h				Daleys Dwarf, EMB-1, Hidden Valley A38, KRG- 15, MRG-25	1
	smoot	h to slightly rough				MiniMaca	2
	mode	rately rough				KMB-3, MRG-20	3
	very ro	ough					4
26.	QN	MS/VG	(a)				
	Shell:	thickness					
	thin						3
	mediu	m					5
	thick						7

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27.	QN	VG		(a)				
	Shell: consp suture	oicuousness of						
	weak						Kabere, KMB-3, MRG-20	1
	mediu	m						2
	strong						MiniMaca	3
28.	QN	VG		(a)				•
,	Kerne	el: size						
	very s	very small						1
	small							3
	medium							5
	large							7
	very large							9
29.	PQ	VG		(a)		L		
:	Kernel: color			- :				
	white							1
	yellow	rish white						2
	light b	rown						3
	mediu	m brown						4
	dark b	rown						5
30.	QN	VG	(+)			T		_
	Branc	ch: number of s per whorl						
	three						EMB-1, KRG-15, MRG- 20, MRG-25	1
	four						KMB-3	2
	five							3
31.	QN	VG	(+)					
	Leaf: consp secor	Leaf: conspicuousness of secondary veins						
	weak	weak					EMBU-1, KRG-15	1
	mediu	medium					KMB-3, MRG-20	2
	strong						Kabere	3

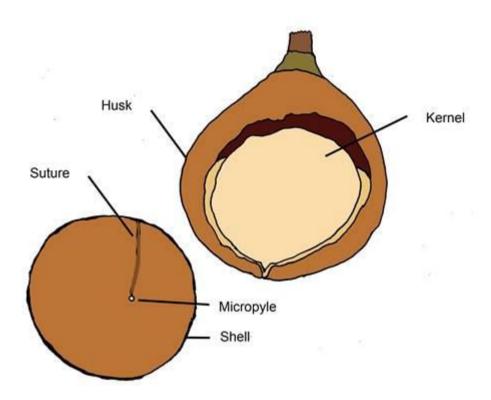
		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
32.	QN	VG		(a)				
	Husk:	size of apical						
	small	small					EMB-1, MRG-20	3
	mediu	m					KMB-3, KRG-15, MRG-25	5
	large						Kabere	7
33.	QN	VG		(a)				l
-	Husk:	thickness of arp						
	very th	 nin					Kabere	1
	thin						EMB-1, KMB-3, KRG-15	3
	medium						MRG-20, MRG-25	5
	thick							7
34.	QN	VG		(a)		,		1
	Kerne positi	Kernel: micropyle position						
	closed	d					KMB-3, KRG-15, MRG-20	1
	partial	ly open						2
	open						Kabere	3
35.	QN	MS/VG	(+)	(a)		1		
	Kerne	el: length		•				
	short							3
	mediu	m						5
	long	long						7
36.	QN	MS/VG		(a)				
	Kerne	Kernel: width						
	narrov	V						3
	mediu	m						5
	broad							7

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

## 8.1 Explanations covering several characteristics

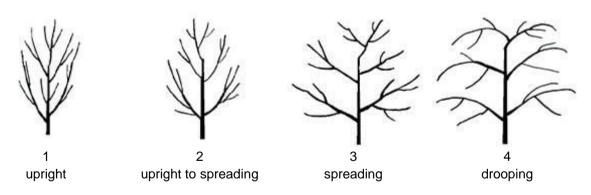
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

(a)



# 8.2 Explanations for individual characteristics

## Ad. 1: Plant: growth habit



# Ad. 4: Plant: density of foliage

Observations should be made a time of flowering

# Ad. 10: Leaf blade: shape

	<b>←</b>	broadest part	$\rightarrow$
	below middle	at middle	above middle
width (ratio length/width)			
narrow (high)	1 lanceolate	3 oblong	
medium (medium)	2 ovate	4 elliptic	5 oblanceolate
broad (low)			6 obovate

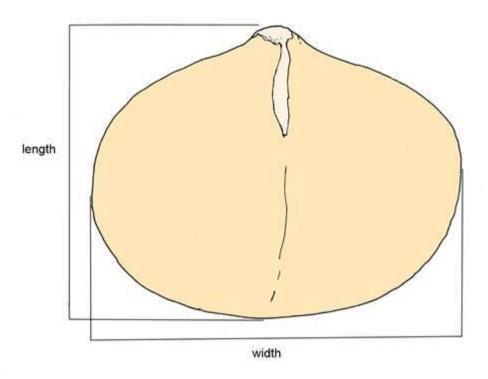
# Ad. 30: Branch: number of leaves per whorl

Observations should be made at flowering

# Ad. 31: Leaf: conspicuousness of secondary veins

Observations should be made on fully developed leaf

# Ad. 35: Kernel: length



# 9. <u>Literature</u>

Vock, N., Bell, D., Bryen, L., Firth, D., Jones, K., Gallagher, E., McConachie, I., O'Hare, P. and Stephenson, R., 1998: Macadamia Variety Identifier, Agrilink, Queensland Department of Primary Industries, Nambour, Queensland, Australia, 62pp

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

TECHNICAL QUESTIONNAIRE				Page {x} of {y}	Reference Number:	
					Application date: (not to be filled in by the applicant	·)
				CHNICAL QUESTIONNA	AIRE n for plant breeders' rights	
1.	Subject	of the Technical Questio	To plant breeders rights			
	1.1.1	Botanical name	М	acadamia integrifolia Ma	iden et Betche	[]
	1.1.2 Common name Macadamia, Queensla		acadamia, Queensland	ınd Nut		
	1.2.1	Botanical name	М	acadamia tetraphylla L	Johns.	[]
	1.2.2	Common name	М	acadamia, Queensland	Nut	
2.	Applica	nt				
	Name					
	Address					
	Telephone No.					
	Fax No					
	E-mail a	address				
	Breede applica	r (if different from nt)				
3.	Propos	ed denomination and bree	ede	r's reference		
	Propose (if availa	ed denomination able)				
	Breeder's reference					

TECHNICAL QUESTIONNAIRE	Page {x} of {v}	Reference Number:	

4.1.1 (a) (	Breeding scheme resulting from: Crossing controlled cross (please state parent varieties)) parent	x	[ ]
4.1.1 (a) (	Crossing controlled cross (please state parent varieties)	x	[ ]
(a) ( female	controlled cross (please state parent varieties)	x	[ ]
( female	(please state parent varieties)	x	[ ]
female	)	x	
female		x	
	parent		()
(b)			male parent
(2)	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 (please	Discovery and development state where and when discovered and he	ow dev	[ ] reloped)
4.1.4	Other		[ ]
(please	provide details)		

TECHNICAL C	QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
4.2 4.2.1	Method of propagating Other (Please provide details)		[	1

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)	Plant: growth habit		
	upright	MRG-20	1[]
	upright to spreading		2[]
	spreading		3[]
	drooping	KRG-15	4[]
5.2 (5)	Stem: texture of surface		
	smooth		1[]
	medium		2[]
	rough		3[]
5.3 (10)	Leaf blade: shape		
	lanceolate		1[]
	ovate		2[]
	oblong		3[]
	elliptic		4[]
	oblanceolate		5[]
	obovate		6[]
5.4 (22)	Inflorescence: color		
	white	Daleys Dwarf, EMB-1, KRG-15, MRG-20, MRG-25	1[]
	pink	KMB-3, MiniMaca	2[]
5.5 (24)	Shell: shape (in lateral view)		
	ovate		1[]
	oblate	MRG-20, MRG-25	2[]
	circular	Daleys Dwarf, EMB-1, KMB-3, MiniMaca	3[]
	obovate	Kabere	4[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Nur	mber:				
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.							
variety(ies) similar to your your candidate	te variety differs the charac	the expression of cteristic(s) for the r variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety				
Example Plant: g	rowth habit	upright	spreading				
Comments:							

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 there any special conditions for growing the variety or conducting the examination?	IECHI	IICAL Q	UESTIONNAIRE	Page {x} or {y}	Reference Number.					
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)										
help to distinguish the variety?  Yes [ ] No [ ]  (If yes, please provide details)	#7.	Additional information which may help in the examination of the variety								
(If yes, please provide details)	7.1			ed in sections 5 and 6, are	there any additional characteristics which may					
		Yes	[]	No	[]					
7.2 Are there any special conditions for growing the variety or conducting the examination?		(If yes,	please provide details)							
	7.2	Are the	ere any special conditions for	r growing the variety or co	nducting the examination?					
Yes [ ] No [ ]		Yes	[]	No	[ ]					
(If yes, please provide details)		(If yes,	please provide details)							
7.3 Other information	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.]	Technic suppler The kee • • • • version Furthe "Development of the control of the	cal Ques ments the ey points Indicat Correc Good of (minimular guidane opment co	tionnaire. The photograph we information provided in the to consider when taking a plion of the date and geograph at labeling (breeder's reference quality printed photograph (num 960 x 1280 pixels)" ce on providing photographs of Test Guidelines", Guidance	vill provide a visual illustration. Technical Questionnaire, thotograph of the candidate included incl	tion of the candidate variety which e variety are: and/or sufficient resolution electronic format onnaire is available in document TGP/7 v.int/tgp/en/).					

TECH	HNICA	L QUEST	TIONNAIRE	Page {x} of {y}	Referen	ce Number:		
8.	Authorization for release							
	(a)		e variety require pri nent, human and a	or authorization for releanimal health?	ase under legisla	ation concerning	the protection of the	
		Yes	[]	No []				
	(b)	Has such	h authorization bee	n obtained?				
		Yes	[]	No []				
	If the	answer to	(b) is yes, please a	attach a copy of the auth	norization.			
9. Inf	ormati	on on plan	t material to be exa	amined or submitted for	examination			
	9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.							
chara has u	acterist underg	ics of the o	variety, unless the treatment, full deta	ve undergone any treat competent authorities a ils of the treatment must naterial to be examined	allow or request t be given. In th	such treatment. is respect, pleas	If the plant material	
	(a)	Micr	oorganisms (e.g. v	irus, bacteria, phytoplas	ma)	Yes [ ]	No [ ]	
	(b)	Che	mical treatment (e.	g. growth retardant, pes	ticide)	Yes [ ]	No [ ]	
	(c)	Tiss	ue culture			Yes [ ]	No [ ]	
	(d)	Othe	er factors			Yes [ ]	No [ ]	
	Please provide details for where you have indicated "yes".							
10.	I he	ereby decla	are that, to the best	of my knowledge, the in	nformation provi	ded in this form is	s correct:	
	App	olicant's na	ame					
			·					
	Sig	gnature			Date	;		

[End of document]