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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS Geneva

DRAFT

ACCA

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Acca sellowiana (Berg) Burret

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from New Zealand

to be considered by the

Technical Working Party for Fruit Crops at its forty-fourth session, to be held in Napier, New Zealand, from April 29 to May 3, 2013

Alternative Names:*

Botanical name	English	French	German	Spanish
<i>Acca sellowiana</i> (Berg) Burret	Feijoa, Pineapple Guava, Guavasteen			

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 (<u>www.upov.int</u>), for the latest information.]

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

These Test Guidelines apply to all varieties of Acca sellowiana (Berg) Burret.

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 one year old trees. The trees can be cutting grown or grafted on a rootstock as specified by the testing authority.

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

5 trees.

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. In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles.

3.1.2 The growing cycle is considered to be the duration of a single growing season, beginning with vegetative growth, continuing through flowering, active vegetative growth and fruit development and concluding after the harvest of fruit.

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

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 5 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. <u>Assessment of Distinctness, Uniformity and Stability</u>

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 / 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 taken from each of 5 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.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

- MG: single measurement of a group of plants or parts of plants
- MS: measurement of a number of individual plants or parts of plants
- VG: visual assessment by a single observation of a group of plants or parts of plants
- VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 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 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-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 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 (1)
- (b) Leaf blade: variegation on upper side (13)
- (c) Fruit: weight (22)
- (d) Fruit: shape (26)
- (e) Fruit: color of skin (32)
- (f) Fruit: rugosity of skin (33)
- (g) Time of maturity for harvest (39)

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

(*)	Asterisked characteristic	– see Chapter 6.1.2
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QL	Qualitative characteristic	– see Chapter 6.3
QN	Quantitative characteristic	- see Chapter 6.3
PQ	Pseudo-qualitative characteristic	- see Chapter 6.3

MG, MS, VG, VS – see Chapter 4.1.5

- (a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2.

7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	Deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	VG	Tree: growth habit					
PQ		upright				Apollo, Marion	1
		semi upright				Kakapo, Unique	2
		spreading				Pounamu	3
		drooping				Alcantara	4
2.	VG	Tree: vigor					
(+)							
QN		weak				Unique	3
		medium				Opal Star	5
		strong				Apollo, Gemini	7
3. (*) (+)	VG/ MG	Current season's shoot: length of internode					
QN		short				Unique	3
		medium				Marion	5
		long				Triumph	7
4. (*)	VG/ MS	Leaf blade: length					
QN	(a)	short				Opal Star, Unique	3
		medium				Apollo, Pounamu	5
		long				Kakariki	7
5. (*)	VG/ MS	Leaf blade: width					
QN	(a)	narrow				Marion	3
		medium				Unique	5
		broad				Anatoki	7
6. (*) (+)	VG/ MS	Leaf blade: ratio length/width					
QN	(a)	slightly elongated				Opal Star	3
		moderately elongated				Apollo, Marion	5
		strongly elongated				Pounamu	7
		very strongly elongated				Triumph	9

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		English	français	Deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
7.	VG	Leaf blade: shape					
(+)							
PQ	(a)	ovate					1
		elliptic				Apollo	2
		oblong					3
		obovate					4
8. (*) (+)	VG	Leaf blade: position of broadest part					
	(a)	towards base				Opal Star	1
QN		in middle				Marion, Unique	2
		towards apex				Triumph	3
9.	VG	Leaf blade: shape of					
(+)		арех					
PQ	(a)	broad acute				Gemini	1
		obtuse				Apollo	2
		rounded				Marion	3
		truncate					4
		retuse					5
10.	VG	Leaf blade: shape of base					
(+)		5400					
PQ	(a)	cuneate				Marion	1
		acute				Gemini, Kakapo	2
		obtuse				Unique	3
		rounded					4
11. (+)	VG	Leaf blade: profile in cross section					
QN	(a)	concave					1
		flat				Opal Star	2
		convex					3

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		English	français	Deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
12.	VG	Leaf blade: main color of upper side					
(+)							
PQ	(a)	light green					1
		medium green				Opal Star	2
		dark green				Apollo	3
		grey green				Marion	4
13. (*)	VG	Leaf blade: variegation on upper side					
QL	(a)	absent					1
		present					9
14.	VG	Leaf blade: density of pubescence on lower side					
QN	(a)	sparse					1
		medium					2
		dense					3
15.	VG	Leaf blade: color of					
(+)							
PQ	(a)	whitish					1
		light green					2
		medium green					3
		greyish					4
16.	VG	Inflorescence: arrangement					
PQ	(a)	terminal					1
		terminal and lateral					2
17.	VG/ MS	Flower: length of petal					
QN	(b)	short				Unique	1
		medium				Gemini	2
		long					3
18. (*) (+)	VG	Flower: petal color of upper side					
PQ	(b)	RHS Colour Chart (indicate reference number)					

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		English	français	Deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
19. (+)	VG/ MG	Flower: number of stamens					
QN	(b)	few				Anatoki	1
		medium				Gemini	2
		many				Kaiteri	3
20.	VG	Flower: color of filaments					
PQ	(b)	pink					1
		reddish pink					2
		red					3
21.	VG	Flower: color of anthers					
PQ	(b)	yellowish white					1
		reddish white					2
		medium red					3
		dark red					4
22. (*) (+)	MG	Fruit: weight					
QN	(c)	low				Opal Star	3
		medium				Pounamu	5
		high				Anilvinkoru	7
23. (*) (+)	VG/ MS	Fruit: length					
QN	(c)	short					3
		medium				Opal Star, Pounamu	5
		long				Apollo, Unique	7
		very long				Kakapo	9
24. (*) (+)	VG/ MS	Fruit: diameter					
QN	(c)	small				Kakapo	3
		medium				Gemini, Opal Star	5
		large					7

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		English	français	Deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
25. (*) (+)	VG/ MG	Fruit: ratio length/diameter					
QN	(c)	low				Unique	3
		medium				Apollo, Opal Star	5
		high				Kakapo, Triumph	7
26. (*) (+)	VG	Fruit: shape					
PQ	(c)	ovate				Pounamu	1
		circular					2
		elliptic				Opal Star	3
		oblong					4
		rhombic					5
		obovate				Gemini, Kakapo	6
		oblanceolate					7
27.	VG	Fruit: longitudinal symmetry					
QN	(c)	symmetric or slightly asymmetric				Opal Star, Unique	1
		moderately asymmetric				Apollo	2
		strongly asymmetric				Triumph	3
28. (*) (+)	VG	Fruit: slope of shoulder at stalk end					
QN	(c)	weak				Opal Star	1
		medium				Kakapo, Pounamu	2
		strong				Anilvinkoru, Apollo	3
29.	VG	Fruit: point of attachment of stalk					
QN	(c)	depressed				Gemini, Marion, Unique	1
		flat				Opal Star	2
		raised				Apollo	3

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ExampleVarieties/ . Exemples/ Note/ English français Deutsch español Beispielssorten/ Nota Variedades ejemplo 30. ٧G Fruit: shape of stalk scar (+) PQ 1 (c) elliptic oblong Opal Star, Unique 2 circular Marion 3 VG 31. Fruit: attitude of sepals (*) QN Kakapo, Opal Star 1 (c) erect semi erect Marion, Unique 2 horizontal Apollo, Pounamu 3 VG 32. Fruit: color of skin (*) PQ light green Unique 1 (c) medium green Apollo, Opal Star 2 dark green Anilvinkoru, Kakapo 3 grey green Marion 4 33. VG Fruit: rugosity of skin (*) (+) absent or very slightly (c) Opal Star 1 rugose QN slightly rugose Kakapo, Marion 3 moderately rugose Apollo, Triumph 5 7 strongly rugose Unique VG 34. Fruit: longitudinal grooving (+) QN absent or weak (c) Apollo, Pounamu 1 medium Kakapo 2 3 strong 35. VG Fruit: thickness of skin QN (d) thin 3 medium 5 thick 7

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		English	français	Deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
36. (*)	VG	Fruit: color of outer pericarp					
PQ	(d)	white				Kakapo	1
		yellowish white				Gemini, Unique	2
		yellow				Opal Star	3
37.	VG	Fruit: thickness of					
(+)		pendarp					
QN	(d)	thin					1
		medium					2
		thick					3
38. (*) (+)	VG	Fruit: width of locules relative to fruit					
QN	(d)	very small				Triumph	1
		small				Kakapo, Pounamu	3
		medium				Unique	5
		large					7
39. (*) (+)	VG/ MG	Time of maturity for harvest					
QN		very early				Kaiteri, Waitui	1
		early				Unique	3
		medium				Apollo, Gemini	5
		late				Kakapo, Opal Star	7
		very late				Triumph	9

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) All observations on the leaf should be made on the middle third of a one year old shoot.
- (b) All observations on flowers should be made when approximately 50% of flowers on a tree are open.
- (c) All observations on fruit should be made at harvest.
- (d) All observations on fruit should be made when ripe for eating.
- 8.2 Explanations for individual characteristics

Ad. 1: Tree: growth habit

The growth habit is observed at the end of the growing season after fruit harvest.

Ad. 2: Tree: vigor

The vigor of the tree should be considered as the overall abundance of vegetative growth.

Ad. 3: Current season's shoot: length of internode

The length of the internode is observed on the middle third on a current season shoot.

Ad. 6: Leaf blade: ratio length/width

Ad. 7: Leaf blade: shape Ad. 8: Leaf blade: position of broadest part



Ad. 9: Leaf blade: shape of apex



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Ad. 10: Leaf blade: shape of base



Ad. 11: Leaf blade: profile in cross section



Ad. 12: Leaf blade: main color of upper side

The main color is determined by the color which makes up the largest surface area.

Ad. 15: Leaf blade: color of lower side

The color of the lower side includes any pubescence that may be present.

Ad. 18: Flower: petal color of upper side

The observation is made on the color covering the largest surface area of the petal.

Ad. 19: Flower: number of stamens



Ad. 22: Fruit: weight

Fruit weight at harvest is determined by a sample size of 25 harvested fruits, 5 each from 5 trees.



Ad. 25: Fruit: ratio length/diameter Ad. 26: Fruit: shape



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Ad. 28: Fruit: slope of shoulder at stalk end



1 weak



2 medium



strong

Ad. 30: Fruit: shape of stalk scar



To be added

1 elliptic





circular

Ad. 33: Fruit: rugosity of skin

Rugosity of the fruit is defined as the number of wrinkles. The wrinkles are irregular and net like. A variety with a rough fruit surface has greater rugosity than a variety with a smoother skin surface.

Ad. 34: Fruit: longitudinal grooving



1 absent or weak

2 medium

3 strong



Ad. 37: Fruit: thickness of pericarp

The thickness of the pericarp is the width of flesh from the edge of the locule to the skin.

Ad. 38: Fruit: width of locules in relation to fruit

This is determined by the width of the locules in comparison to the total width of the fruit. The characteristic provides information regarding the amount of the total flesh which is locule.

Ad. 39: Time of maturity for harvest

Harvest maturity is reached when fruit naturally drop from the tree or when picked, readily detach from the tree with minimal effort. The harvest period begins when the first few fruit have naturally dropped. The fruit ripen from the inside out and maturity cannot be determined externally.

9. <u>Literature</u>

Thorp, G., Bieleski R., 2002: Feijoas: Origins, Cultivation and Uses, Horticulture and Food Research Institute of New Zealand and David Bateman Ltd, Auckland, NZ

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10. <u>Technical Questionnaire</u>

TEC	HNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:			
				Application date:			
				(not to be filled in by the applicant)			
	TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights						
1.	Subject of the Technical Questionr	aire	2				
	1.1 Botanical name	Acca	a sellowiana (Berg) Burret				
	1.2 Common name	4cca	a				
2.	Applicant						
	Name						
	Address						
	Telephone No.						
	Fax No.						
	E-mail address						
	Breeder (if different from applicant)						
3.	Proposed denomination and breed	er's	reference				
	Proposed denomination [
	Breeder's reference						

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
#4. Information on the breeding so4.1 Breeding scheme	cheme and propagation of the	variety
Variety resulting from:		
4.1.1 Crossing		
(a) control (please	led cross e state parent varieties)	[]
(female parent) x	() male parent
(b) partiall (please	y known cross e state known parent variety(ie	[]
(female parent) x	() male parent
(c) unknov	wn cross	[]
4.1.2 Mutation (please state par	ent variety)	[]
4.1.3 Discovery and de (please state who	evelopment ere and when discovered and	[] how developed)
4.1.4 Other (please provide o	letails)	[]
		4

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:						
4.2 Method of propaga	ating the variety							
4.2.1 Vegetative	propagation							
(a) cutti (b) graf (c) <i>in vi</i> (d) othe	ngs ting onto seedling rootstock tro propagation er (state method)	[] [] [] []						
4.2.2 Other (please prov	/ide details)	[]						

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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 character in Test Guidelines; please mark the note which best corresponds).							
	Characteristics		Example Varieties	Note				
5.1 (1)	Tree: growth habit							
	upright		Apollo, Marion	1[]				
	semi upright		Kakapo, Unique	2[]				
	spreading		Pounamu	3[]				
	drooping			4[]				
5.2 (13)	Leaf blade: variegation on upper sid	le						
	absent			1[]				
	present			9[]				
5.3 (22)	Fruit: weight							
	very low			1[]				
	very low to low			2[]				
	low		Opal Star	3[]				
	low to medium			4[]				
	medium		Pounamu	5[]				
	medium to high			6[]				
	high		Anilvinkoru	7[]				
	high to very high			8[]				
	very high			9[]				

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TECHNICAL QUESTIONNAIRE		Page {x} of {y}	x} of {y} Reference Number:	
	Characteristics	·	Example Varieties	Note
5.4	Fruit: shape			Note
(26)				
	ovate		Pounamu	1[]
	circular			2[]
	elliptic		Opal Star	3[]
	oblong			4[]
	rhombic			5[]
	obovate		Gemini, Kakapo	6[]
	oblanceolate			7[]
5.5 (32)	Fruit: color of skin			
	light green		Unique	1[]
	medium green		Apollo, Opal Star	2[]
	dark green		Anilvinkoru, Kakapo	3[]
	grey green		Marion	4[]
5.6 (33)	Fruit: rugosity of skin			
	absent or very slightly rugose		Opal Star	1[]
	very slightly rugose to slightly rugose			2[]
	slightly rugose		Kakapo, Marion	3[]
	slightly rugose to moderately rugose			4[]
	moderately rugose		Apollo, Triumph	5[]
	moderately rugose to strongly rugose			6[]
	strongly rugose		Unique	7[]
	strongly rugose to very strongly rugose			8[]
	very strongly rugose			9[]

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TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:	
	Characteristics		Example Varieties	Note
5.7 (39)	Time of maturity for harvest:			
	very early		Kaiteri, Waitui	1[]
	very early to early			2[]
	early		Unique	3[]
	early to medium			4[]
	medium		Apollo, Gemini	5[]
	medium to late			6[]
	late		Kakapo, Opal Star	7[]
	late to very late			8[]
	very late		Triumph	9[]

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TECHNICAL QUESTIONNAIRE		Page {x} of {y}		Reference Number:			
6. Similar varieties and di	fferences from t	hese 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 differs from the sin variety(ies)		c(s) in which ate variety the similar /(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)		Describe the expression of the characteristic(s) for your candidate variety		
Example	Fruit: weight		low		medium		
Comments:							

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1									
TECH	NICAL	QUESTIO	NNAIRE	Page {x} of {	y}	Reference Number:			
[#] 7.	Additional information which may help in the examination of the variety								
7.1	In add help to	n 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 pr	rovide details)						
7.2	Are th	ere any sp	pecial conditions for gro	owing the vari	ety or conduc	ting the examination?			
	Yes	[]		No	[]				
	(If yes,	please pr	rovide details)						
7.3	Other information								
A repr	esentat	ive color in	mage of the variety sho	ould accompa	ny the Techn	ical Questionnaire.			
8.	Autho	rization fo	r 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 been ot	otained?					
		Yes	[]	No	[]				
	If the a	answer to	(b) is yes, please attac	ch a copy of th	ne authorizatio	on.			

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

9. Information on plant material to be examined or submitted for examination

Signature

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) Microorganisms (e.g. virus, bacteria, phytoplasma)					Yes []	No []	
	(b) Chemical treatment (e.g. growth retardant, pesticide)					Yes []	No []	
	(c)	Tissue culture				Yes []	No []	
	(d) Other factors					Yes []	No []	
	Please provide details for where you have indicated "yes".							
10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:								
	Applic	ant's name						
		Γ						

Date

[End of document]