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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

GUAVA *

UPOV Code(s): PSIDI_GUA; PSIDI_CAT_CAT

Psidium guajava L.; *Psidium cattleyanum*
Sabine var. *littorale* (Raddi) Fosberg

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from China

to be considered by the

*Technical Working Party for Fruit Crops at its fifty-seventh session,
to be held in Leipzig, Germany, from 2026-09-07 to 2026-09-10*

Disclaimer: this document does not represent UPOV policies or guidance

Alternative Names:*

Botanical name	English	French	German	Spanish
<i>Psidium guajava</i> L.	Guava	Goyavier	Guave	
<i>Psidium cattleyanum</i> Sabine var. <i>littorale</i> (Raddi) Fosberg, <i>Psidium guajava</i> L. × <i>Psidium littorale</i> Raddi, <i>Psidium littorale</i> Raddi, <i>Psidium littorale</i> var. <i>littorale</i> Raddi	Chinese strawberry guava, Strawberry guava, Yellow Cattley guava, Yellow strawberry guava	Goyavier	Guave	Guyaba

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.

Other associated UPOV documents: TG/110/3 Date/Datum: 1987-10-07

* 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.]

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1. Subject of these Test Guidelines

1.1 These Test Guidelines apply to all varieties of *Psidium guajava* L. and *Psidium cattleianum* Sabine var. *littorale* (Raddi) Fosberg and the hybrid varieties (*Psidium guajava* L. × *Psidium littorale* Raddi).

1.2 In the case of industrial varieties, in particular, it may be necessary to use additional characteristics or additional states of expression to those included in the Table of Characteristics in order to examine Distinctness, Uniformity and Stability.

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 cutting seedlings, air-layering trees or grafted trees.

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

8 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 The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles.

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

3.1.4 The growing cycle is considered to be the duration of a single growing season, beginning with the dormancy period, followed by bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period starts.

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 reference in the Table of Characteristics. The stages of development denoted by each reference are described in Chapter 8.

3.4 Test Design

Each test should be designed to result in a total of at least 5 plants.

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 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 Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants

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

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

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

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

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

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the 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 assessment of uniformity of vegetatively propagated, 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 plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

4.3.3 Where appropriate, or in cases of doubt, the stability of a hybrid variety may, in addition to an examination of the hybrid variety itself, also be assessed by examination of the uniformity and stability of its parent lines.

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:

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 All relevant states of expression are presented in the characteristic.

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 8.2
- 6 (a)-(e) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Not applicable

7. Table of Characteristics/Tableau des caracteres/Merkmalstabelle/Tabla de caracteres

		English		français		deutsch		español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.		QN	VG		(a)					
	Tree: growth habit									
	upright									1
	spreading									2
	drooping									3
	weeping									4
2.	(*)	PQ	VG	(+)	(b)					
	Young shoot: color									
	yellow green									1
	green								Oakford, Puerto Rico	2
	reddish green								Pink Indian	3
	red									4
	dark red									5
3.		QN	VG	(+)	(b)					
	Young leaf: anthocyanin coloration									
	absent or very weak								Oakford, Puerto Rico	1
	weak								WK 11-26	3
	medium									5
	strong								Pink Indian	7
4.		QN	VG	(+)	(b)					
	Young leaf: pubescence on lower side									
	absent or very sparse									1
	sparse								Beaumont	3
	medium								Puerto Rico	5
	dense									7
	very dense									9
5.		QN	MS/VG		(c)					
	Shoot: thickness									
	thin									3
	medium									5
	thick									7

		English		français		deutsch		español		Example Varieties Exemples Beispielssorten Variedades ejemplo		Note/ Nota
6.		QN	MS/VG	(+)	(c)							
		Leaf blade: length										
		short							Puerto Rico	3		
		medium								5		
		long							DA 6, Dert	7		
7.		QN	MS/VG		(c)							
		Leaf blade: width										
		narrow							Buys	3		
		medium								5		
		broad							Dert	7		
8.	(*)	QN	MS/VG		(c)							
		Leaf blade: ratio length/width										
		low							Curflau	3		
		medium								5		
		high							Buys	7		
9.	(*)	PQ	VG	(+)	(c)							
		Leaf blade: shape										
		ovate								1		
		trullate								2		
		rounded								3		
		oblong							Buys, Welken	4		
		obovate								5		
		obtrullate								6		
10.		QN	VG	(+)	(c)							
		Leaf blade: curvature in cross section										
		weak								3		
		medium								5		
		strong							Oakford I	7		
11.		QL	VG	(+)	(c)							
		Leaf blade: twisting										
		absent							Beaumont	1		
		present							Oakford I	9		
12.		QL	VG	(+)	(c)							
		Leaf blade: curvature of midrib										
		absent							Curflau	1		
		present							Welken	9		

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13.	QN	VG		(c)				
	Leaf blade: degree of curvature of midrib							
	weak						Welken	3
	medium							5
	strong							7
14.	QL	VG		(c)				
	Leaf blade: variegation							
	absent						Beaumont, Puerto Rico	1
	present							9
15.	PQ	VG	(+)	(c)				
	Leaf blade: color							
	light green						Puerto Rico	1
	medium green						Oakford I	2
	dark green							3
	reddish green							4
	red							5
16.	PQ	VG	(+)	(c)				
	Leaf blade: color of midrib on lower side							
	white							1
	yellow							2
	green							3
	red							4
17.	QN	MS/VG		(c)				
	Leaf blade: spacing of secondary veins							
	close						DA 6	3
	medium							5
	wide						Oakford I	7
18.	PQ	VG		(c)				
	Leaf blade: texture of upper side							
	smooth						WK 11-26	1
	slightly wrinkled							3
	wrinkled						Welken	5

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19.		QN	VG	(+)	(c)		
		Leaf blade: undulation of margin					
		absent or very weak					1
		weak				Buys	3
		medium				Oakford II	5
		strong					7
20.		PQ	VG	(+)	(c)		
		Leaf blade: shape of base					
		obtuse					1
		rounded				Pink Indian	2
		cordate					3
		asymmetric					4
21.		PQ	VG	(+)	(c)		
		Leaf blade: shape of apex					
		attenuate					1
		apiculate				Pink Indian, Puerto Rico	2
		acute					3
		obtuse					4
		rounded				Dert	5
		cordate					6
22.		QN	MS		(d)		
		Inflorescence: predominant number of flowers					
		one					1
		one to three					2
		three					3
23.		QN	MS/VG		(d)		
		Flower: size					
		small					3
		medium					5
		large					7
24.		QN	MS/VG		(d)		
		Flower: number of <u>fully developed</u> petals					
		few					1
		medium					2
		many					3

		English		français		deutsch		español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25.		QL	VG		(d)					
		Flower: staminoid petals								
		absent								1
		present								9
26.		QN	MS/VG		(d)					
		Flower: number of staminoid petals								
		few								1
		medium								2
		many								3
27.	(*)	QN	MS/VG		(e)					
		Fruit: length								
		short								3
		medium								5
		long								7
28.	(*)	QN	MS/VG		(e)					
		Fruit: width								
		narrow								3
		medium								5
		broad								7
29.	(*)	QN	MS/VG		(e)					
		Fruit: ratio length/width								
		small							Dert	3
		medium							Fan Retief	5
		long							Beaumont	7
30.	(*)	PQ	VG	(+)	(e)					
		Fruit: shape at stalk end								
		broadly rounded								1
		rounded								2
		truncate								3
		pointed								4
		necked								5

		English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31.	(*)	PQ	VG		(e)				
	Fruit: color of skin								
	white green								1
	light yellow							Beaumont	2
	dark yellow								3
	orange								4
	orange green								5
	medium green								6
	dark green								7
	pink red								8
	dark red								9
32.	(*)	PQ	VG		(e)				
	Fruit: texture of surface								
	smooth							Fan Retief	1
	rough								2
	bumpy								3
33.		QL	VG						
	Fruit: color of outer flesh in relation to inner flesh								
	same color								1
	other color								2
34.		QL	VG		(e)				
	Fruit: longitudinal ridges								
	absent								1
	present								9
35.		QN	VG		(e)				
	Fruit: prominence of longitudinal ridges								
	weak								3
	medium								5
	strong								7
36.		QL	VG		(e)				
	Fruit: longitudinal grooves								
	absent								1
	present								9

		English		français		deutsch		español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
37.		QN	MS/VG		(e)					
		Fruit: size of sepal								
		small								3
		medium								5
		large								7
38.	(*)	QN	MS/VG	(+)	(e)					
		Fruit: diameter of calyx cavity in relation to that of fruit								
		small								3
		medium								5
		large								7
39.		QL	VG	(+)	(e)					
		Fruit: ridged collar around calyx cavity								
		inconspicuous								1
		conspicuous								2
40.		QN	MS/VG		(e)					
		Fruit: length of stalk								
		short								3
		medium								5
		long								7
41.	(*)	PQ	VG		(e)					
		Fruit: color of flesh								
		white								1
		light yellow								2
		light pink								3
		medium pink						Beaumont, Ka Hua Kula		4
		dark pink						DA 6		5
		orange pink						Fan Retief		6
		orange						Puerto Rico		7
		dark red								8
42.	(*)	QL	VG	(+)	(e)					
		Fruit: evenness of color of flesh								
		even								1
		mottled								2

		English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
43.	(*)	QL	VG		(e)				
		Fruit: grittiness of outer flesh							
		absent						Malherbe	1
		present							9
44.	(*)	QL	VG	(+)	(e)				
		Fruit: discoloration of flesh after cutting							
		absent							1
		present							9
45.	(*)	QN	MS/VG	(+)	(e)				
		Fruit: thickness of outer flesh in relation to core diameter							
		very thin						Madeira	1
		thin							3
		medium							5
		thick							7
		very thick						Hong Kong Pink	9
46.	(*)	QL	VG		(e)				
		Fruit: puffiness							
		absent							1
		present						Beaumont	9
47.	(*)	QN	VG		(e)				
		Fruit: degree of puffiness							
		weak							3
		medium							5
		strong							7
48.	(*)	QN	MG		(e)				
		Fruit: juiciness							
		low						Madeira	1
		medium						Fan Retief	2
		high						Oakford	3
49.	(*)	QN	MG	(+)	(e)				
		Fruit: sweetness							
		low							3
		medium							5
		high							7

		English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
50.		QL	VG		(e)				
		Fruit: muskiness							
		absent						Fan Retief	1
		present							9
51.	(*)	QN	MS/VG		(e)				
		Fruit: number of seeds							
		very few						Indonesian Seedless	1
		few							3
		medium							5
		many							7
		very many						Madeira	9
52.		QN	VG		(e)				
		Seed: size							
		small							1
		medium							2
		large							3
53.		QN	MG						
		Time of harvest maturity							
		early							3
		medium						Beaumont, Ka Hua Kula	5
		late							7

8. Explanations on the Table of Characteristics

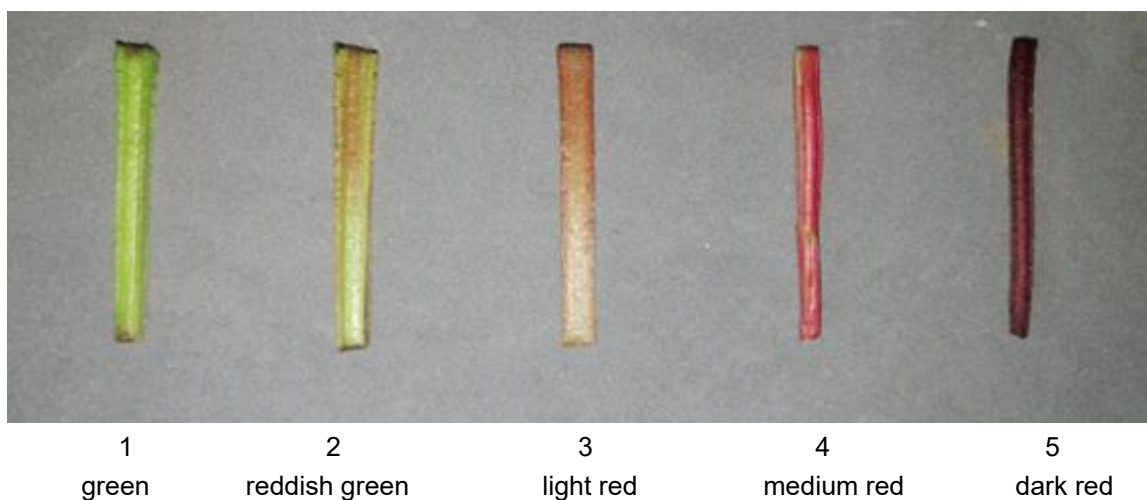
8.1 *Explanations covering several characteristics*

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

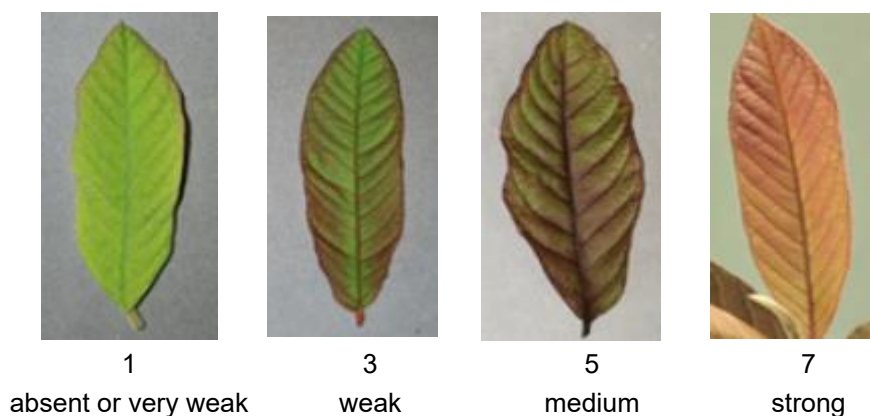
- (a) Observations on the whole plant should be made during the dormant season before pruning.
- (b) Observations on the young leaf and young shoot should be made during a period of active growth (flush), on leaves at the outside of the upper canopy completely exposed to sunlight.
- (c) Observations on shoot and leaf should be made in the middle third of the current season's shoot, after the period of active growth at the outside of the upper canopy completely exposed to sunlight.
- (d) Observations on the inflorescence and flower should be made on fully developed flowers at the outside of the upper canopy.
- (e) Observations on the fruit should be made on fruits from the outside of upper canopy at the time of maturity for consumption.

8.2 *Explanations for individual characteristics*

Ad. 2: Young shoot: color



Ad. 3: Young leaf: anthocyanin coloration



Ad. 4: Young leaf: pubescence on lower side



3
sparse



5
medium



9
very dense

Ad. 6: Leaf blade: length

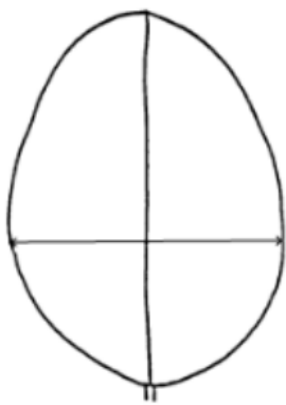


3
short

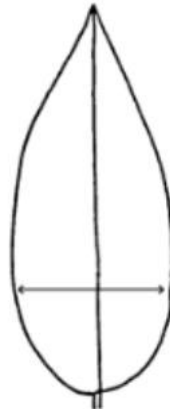
5
medium

7
long

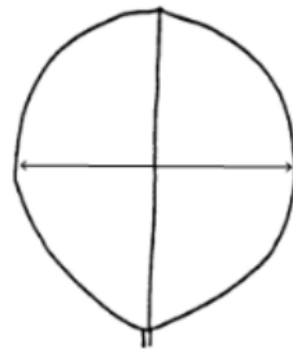
Ad. 9: Leaf blade: shape



1
ovate



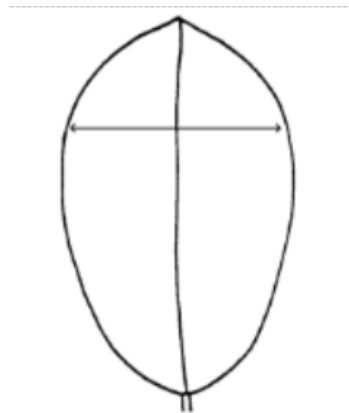
2
trullate



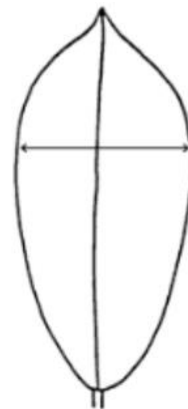
3
rounded



4
oblong



5
obovate



6
obtrullate obtrullate

Ad. 10: Leaf blade: curvature in cross section



3
weak



5
medium



7
strong

Ad. 11: Leaf blade: twisting



1
absent



9
present

Ad. 12: Leaf blade: curvature of midrib



1
absent



9
present

Ad. 15: Leaf blade: color



1
light green



2
medium green



3
dark green



4
reddish
green



5
red

Ad. 16: Leaf blade: color of midrib on lower side



1
white



2
yellow



3
green



4
red

Ad. 19: Leaf blade: undulation of margin



3
weak



5
medium

Ad. 20: Leaf blade: shape of base



1
obtuse



2
rounded



3
cordate



4
asymmetric

Ad. 21: Leaf blade: shape of apex



1
attenuate

2
apiculate

3
acute

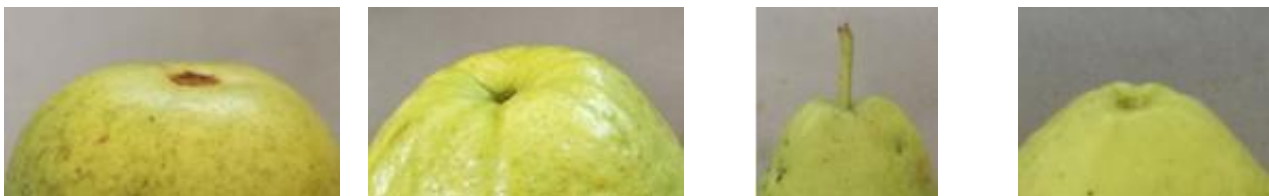


4
obtuse

5
rounded

6
cordate

Ad. 30: Fruit: shape at stalk end



1
broadly rounded

2
rounded

3
truncate

4
pointed

Ad. 38: Fruit: diameter of calyx cavity in relation to that of fruit



3
small

5
medium

7
large

Ad. 39: Fruit: ridged collar around calyx cavity



1
inconspicuous



2
conspicuous

Ad. 42: Fruit: evenness of color of flesh



1
even



2
mottled

Ad. 44: Fruit: discoloration of flesh after cutting



1
absent



9
present

Ad. 45: Fruit: thickness of outer flesh in relation to core diameter



3
thin



5
medium



7
thick

Ad. 49: Fruit: sweetness

Sweetness of fruit should be expressed as the amount of the total sugar.

The total sugar should be expressed as the amount of the total soluble solids (TSS) deducting the total titratable acids (TTA).

The TSS should be measured by means of a hand refractometer and expressed in Brixo.

9. Literature

Wu, J.X., Wang, J.B., Zhang,X.C., etc., 2009: Genetic Relationship of Some Guava (*Psidium guajava* L.) Germplasm by ISSR Markers. Chinese Journal of Tropical Crops.Hainan, CN, 961-964 pp.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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		Application date: (not to be filled in by the applicant)
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TECHNICAL QUESTIONNAIRE
to be completed in connection with an application for plant breeders' rights

In the case of hybrid varieties which are the subject of an application for plant breeders' rights, and where the parent lines are to be submitted as a part of the examination of the hybrid variety, this Technical Questionnaire should be completed for each of the parent lines, in addition to being completed for the hybrid variety.

1. Subject of the Technical Questionnaire

- | | | | |
|-------|----------------|---|--------------------------|
| 1.1.1 | Botanical name | <i>Psidium guajava</i> L. | ☐ |
| 1.1.2 | Common name | Guava | |
| 1.2.1 | Botanical name | <i>Psidium cattleianum</i> Sabine var. <i>littorale</i> (Raddi) Fosberg | ☐ |
| 1.2.2 | Common name | Chinese strawberry guava, Strawberry guava, Yellow Cattley guava, Yellow strawberry guava | |

2. Applicant

- | | |
|---------------------------------------|--|
| Name | |
| Address | |
| Telephone No. | |
| Fax No. | |
| E-mail address | |
| Breeder (if different from applicant) | |

3. Proposed denomination and breeder's reference

- | | |
|--------------------------------------|--|
| Proposed denomination (if available) | |
| Breeder's reference | |

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

- | | |
|---------------------------|-----|
| (a) controlled cross | [] |
| (b) partially known cross | [] |
| (c) unknown cross | [] |

4.1.2 Mutation
(please state parent varieties)

--

4.1.3 Discovery and development
(please state where and when discovered and how developed)

--

4.1.4 Other
(Please provide details)

--

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) Tuber []
- (b) Cuttings []
- (c) *In vitro* propagation []
- (d) Other (state method) []

4.2.2 Other []
(Please provide details)

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 (30) Fruit: shape at stalk end		
broadly rounded		1 []
rounded		2 []
truncate		3 []
pointed		4 []
necked		5 []
5.2 (31) Fruit: color of skin		
white green		1 []
light yellow	Beaumont	2 []
dark yellow		3 []
orange		4 []
orange green		5 []
medium green		6 []
dark green		7 []
pink red		8 []
dark red		9 []
5.3 (32) Fruit: texture of surface		
smooth	Fan Retief	1 []
rough		2 []
bumpy		3 []
5.4 (41) Fruit: color of flesh		
white		1 []
light yellow		2 []
light pink		3 []
medium pink	Beaumont, Ka Hua Kula	4 []
dark pink	DA 6	5 []
orange pink	Fan Retief	6 []
orange	Puerto Rico	7 []
dark red		8 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>			

Comments

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

Yes ☐ No ☐

(If yes, please provide details)

7.3 Other information

A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.

The key points to consider when taking a photograph of the candidate variety are:

- Indication of the date and geographic location
- Correct labeling (breeder's reference)
- Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)

Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (<http://www.upov.int/tgp/en/>).

The link provided may be deleted by members of the Union when developing authorities' own test guidelines.

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

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 authorization been obtained?

Yes ☐ No ☐

If the answer to (b) is yes, please attach a copy of the authorization.

9. Information on plant material to be examined 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.

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".

9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?

Yes ☐

(please provide details as specified by the Authority)

No ☐

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date