

UPOV

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

DRAFT**GRANADILLA, PASSION FRUIT**

UPOV Code: PASSI_EDU

Passiflora edulis Sims**GUIDELINES****FOR THE CONDUCT OF TESTS****FOR DISTINCTNESS, UNIFORMITY AND STABILITY***prepared by experts from South Africa*

*to be considered by the Technical Committee at its forty-fifth session,
to be held in Geneva from March 30 to April 1, 2009*

Alternative Names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Passiflora edulis</i> Sims	Granadilla, Passion fruit	Barbadine, Fruit de la passion	Passionsfrucht, Purpurgranadilla	Granadilla, Maracuyá

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Passiflora edulis* Sims of the family *Passifloraceae*.

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 rooted cuttings or young plants.

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

5 rooted cuttings or 5 young 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 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, 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. In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles.

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 test 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 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations should be made on 5 plants or parts taken from each of 5 plants. In the case of parts of plants, the number to be taken from each of the plants should be 2.

3.6 *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.

4.2 *Uniformity*

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:

For the assessment of uniformity, 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 tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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) Petiole: position of nectaries (characteristic 10)
- (b) Fruit: ratio length/diameter (characteristic 24)
- (c) Fruit: color of skin (characteristic 25)

Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

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*

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.

6.3 *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

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-qualitative characteristic – see Chapter 6.3

(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. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1.	Plant: color of vine	Plante : couleur de la vigne	Pflanze: Farbe der Rebe	Planta: color del tallo trepador		
(+)						
PQ	light green	vert clair	hellgrün	verde claro	Summer Queen	1
	medium green	vert moyen	mittelgrün	verde medio		2
	dark green	vert foncé	dunkelgrün	verde oscuro	Charité, Ester	3
	green purple	vert pourpre	grünpurpurn	púrpura verde		4
	purple	pourpre	purpurn	púrpura		5
2.	Leaf blade: length	Limbe : longueur	Blattspreite: Länge	Limbo: longitud		
QN (a)	short	court	kurz	corto	Charité	3
	medium	moyen	mittel	medio	Summer Queen	5
	long	long	lang	largo	Ruby Star	7
3.	Leaf blade: width	Limbe : largeur	Blattspreite: Breite	Limbo: anchura		
(*)						
QN (a)	narrow	étroit	schmal	estrecho	Charité	3
	medium	moyen	mittel	medio	Summer Queen	5
	broad	large	breit	ancho	Ruby Star	7
4.	Leaf blade: width of terminal lobe	Limbe : largeur du lobe terminal	Blattspreite: Breite der Endlappung	Limbo: anchura del lóbulo terminal		
QN (a)	narrow	étroit	schmal	estrecha	Charité	3
	medium	moyen	mittel	media	Summer Queen	5
	broad	large	breit	ancha	Ruby Star	7
5.	Leaf blade: depth of sinus	Limbe : profondeur du sinus	Blattspreite: Tiefe der Einbuchtung	Limbo: profundidad del seno		
(+)						
QN (a)	shallow	peu profond	flach	poco profundo		3
	medium	moyen	mittel	medio		5
	deep	profond	tief	profundo	Charité, Summer Queen	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.	Leaf blade: intensity of green color	Limbe : intensité de la couleur verte	Blattspreite: Intensität der Grünfärbung	Limbo: intensidad del color verde		
QN (a)	light	claire	hell	claro		3
	medium	moyenne	mittel	medio	Charité	5
	dark	foncée	dunkel	oscuro	Ester	7
7. (*)	Leaf blade: blistering	Limbe : cloûre	Blattspreite: Blasigkeit	Limbo: abullonado		
QL (a)	absent	absente	fehlend	ausente	Charité	1
	present	présente	vorhanden	presente	Marianna	9
8.	Leaf blade: degree of blistering	Limbe : degré de cloûre	Blattspreite: Stärke der Blasigkeit	Limbo: intensidad del abullonado		
QN (a)	weak	faible	gering	débil		3
	medium	moyen	mittel	medio	Ester	5
	strong	fort	stark	fuerte	Charité	7
9.	Petiole: length	Pétiole : longueur	Blattstiel: Länge	Pecíolo: longitud		
QN (a)	short	court	kurz	corto	Charité	3
	medium	moyen	mittel	medio	Summer Queen	5
	long	long	lang	largo	Ruby Star	7
10. (*) (+)	Petiole: position of nectaries	Pétiole : position des nectaires	Blattstiel: Position der Nektarien	Pecíolo: posición de los nectarios		
QL (a)	adjacent to leaf blade	adjacents au limbe	an die Blattspreite anstoßend	adyacentes al limbo	Charité, IAC 273, IAC 277	1
	distant from leaf blade	éloignés du limbe	von der Blattspreite entfernt	distantes del limbo	Summer Queen	2
11. (+)	Flower: length of bract	Fleur : longueur de la bractée	Blüte: Länge des Deckblattes	Flor: longitud de las brácteas		
QN (b)	short	courte	kurz	cortas		3
	medium	moyenne	mittel	medianas	Charité	5
	long	longue	lang	largas	Summer Queen	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
12.	Flower: length of sepal	Fleur : longueur du sépale	Blüte: Länge des Kelchblattes	Flor: longitud de los sépalos		
(+)						
QN	(b) short	court	kurz	cortos		3
	medium	moyen	mittel	medianos		5
	long	long	lang	largos		7
13.	Flower: width of sepal	Fleur : largeur du sépale	Blüte: Breite des Kelchblattes	Flor: anchura de los sépalos		
(+)						
QN	(b) narrow	étroit	schmal	estrechos		3
	medium	moyen	mittel	medianos		5
	broad	large	breit	anchos		7
14.	Flower: length of petal	Fleur : longueur du pétale	Blüte: Länge des Blütenblattes	Flor: longitud de los pétalos		
(+)						
QN	(b) short	court	kurz	cortos	Charité	3
	medium	moyen	mittel	medianos		5
	long	long	lang	largos		7
15.	Flower: width of petal	Fleur : largeur du pétale	Blüte: Breite des Blütenblattes	Flor: anchura de los pétalos		
(+)						
QN	(b) narrow	étroit	schmal	estrechos		3
	medium	moyen	mittel	medianos	Charité	5
	broad	large	breit	anchos		7
16.	Flower: intensity of color of spotted ring in throat	Fleur : intensité de la couleur de l'anneau taché dans la gorge	Blüte: Intensität der Farbe des fleckigen Rings im Schlund	Flor: intensidad del color del anillo manchado en la garganta		
(+)						
QN	(b) absent or light	absente ou claire	fehlend oder hell	ausente o claro		1
	medium	moyenne	mittel	medio	Charité	2
	dark	foncée	dunkel	oscuro		3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
17.	Flower: diameter of corona filaments	Fleur : diamètre des filaments de la partie supérieure	Blüte: Durchmesser der Kronenstaubfäden	Flor: diámetro de los filamentos de la corona		
(+)						
QN	(b) small	petit	klein	pequeño	Summer Queen	1
	medium	moyen	mittel	medio	Charité	2
	large	large	groß	grande		3
18.	Flower: presence of purple rings on corona filaments	Fleur : présence d'anneaux pourpres sur les filaments de la partie supérieure	Blüte: Vorhandensein purpurner Ringe an den Kronenstaubfäden	Flor: presencia de anillos púrpura en los filamentos de la corona		
(+)						
QL	(b) absent	absents	fehlend	ausentes		1
	present	présents	vorhanden	presentes	Charité	9
19.	Flower: width of purple rings on corona filaments	Fleur : largeur des anneaux pourpres sur les filaments de la partie supérieure	Blüte: Breite der purpurnen Ringe an den Kronenstaubfäden	Flor: anchura de los anillos color púrpura de los filamentos de la corona		
(+)						
QN	(b) narrow	étroite	schmal	estrechos		3
	medium	moyenne	mittel	medianos		5
	broad	large	breit	anchos		7
20.	Flower: intensity of color of purple rings on corona filaments	Fleur : intensité de la couleur des anneaux pourpres sur les filaments de la partie supérieure	Blüte: Intensität der Farbe der purpurnen Ringe an den Kronenstaubfäden	Flor: intensidad del color púrpura de los anillos de los filamentos de la corona		
(+)						
QN	(b) light	claire	hell	claro		1
	medium	moyenne	mittel	medio	Charité	2
	dark	foncée	dunkel	oscuro		3
21.	Flower: spots on distal part of corona filaments	Fleur : taches sur la partie distale des filaments de la partie supérieure	Blüte: Flecken am distalen Teil der Kronenstaubfäden	Flor: manchas en la parte distal de los filamentos de la corona		
(+)						
QL	(b) absent	absentes	fehlend	ausentes	Charité, Summer Queen	1
	present	présentes	vorhanden	presentes		9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
22. (*)	Fruit: length	Fruit : longueur	Frucht: Länge	Fruto: longitud		
QN	(c) short	court	kurz	corto	Charité	3
	medium	moyen	mittel	medio	Ester	5
	long	long	lang	largo	Ruby Star, Summer Queen	7
23. (*)	Fruit: diameter	Fruit : diamètre	Frucht: Durchmesser	Fruto: diámetro		
QN	(c) small	petit	klein	pequeño	Charité, Ester	3
	medium	moyen	mittel	medio	Ruby Star, Summer Queen	5
	large	grand	groß	grande		7
24. (*)	Fruit: ratio length/diameter	Fruit : rapport longueur/diamètre	Frucht: Verhältnis Länge/Durchmesser	Fruto: relación longitud/diámetro		
QN	(c) very elongated	très allongé	sehr verlängert	muy allargada	Ester	1
	elongated	allongé	verlängert	allargada		3
	medium	moyen	mittel	media	Ruby Star, Summer Queen	5
	compressed	comprimé	komprimiert	comprimida		7
	very compressed	très comprimé	sehr komprimiert	muy comprimida	Charité	9
25. (*)	Fruit: color of skin	Fruit : couleur de la peau	Frucht: Farbe der Schale	Fruto: color de la piel		
PQ	(c) yellow	jaune	gelb	amarillo	IAC 273, IAC 275, IAC 277	1
	red	rouge	rot	rojo	Panama Red	2
	dark purple	pourpre foncé	dunkelpurpurn	púrpura oscuro	Australian purple	3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
26.	Fruit: conspicuousness of lenticels	Fruit : netteté des lenticelles	Frucht: Ausprägung der Lentizellen	Fruto: visibilidad de las lenticelas		
QL	(c) inconspicuous or weakly conspicuous	peu nettes ou faiblement nettes	undeutlich oder schwach deutlich	no visibles o poco visibles	Charité	1
	moderately conspicuous	modérément nettes	mittel deutlich	moderadamente visibles		2
	very conspicuous	très nettes	sehr deutlich	muy visibles	Marianna	3
27.	Fruit: thickness of skin	Fruit : épaisseur de la peau	Frucht: Dicke der Schale	Fruto: grosor de la piel		
QN	(c) thin	fine	dünn	delgada	Charité	3
	medium	moyenne	mittel	media	Ester, Summer Queen	5
	thick	épaisse	dick	gruesa		7
28.	Fruit: size of seed	Fruit : taille de la semence	Frucht: Größe des Samens	Fruto: tamaño de la semilla		
QN	(c) small	petite	klein	pequeña		3
	medium	moyenne	mittel	media	Charité, Ruby Star	5
	large	grande	groß	grande	Summer Queen	7
29.	Fruit: color of foeniculum	Fruit : couleur du foeniculum	Frucht: Farbe des Foeniculums	Fruto: color del foeniculum		
(+)						
QL	(c) white yellowish	blanc jaunâtre	weiß gelblich	blanco amarillento	Charité	1
	pink red	rose rouge	rosa rot	rosa rojo	Summer Queen	2

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
30.	Fruit: color of pulp	Fruit : couleur de la chair	Frucht: Farbe des Fleisches	Fruto: color de la pulpa (arilo)		
(+)						
PQ	(c) whitish	blanchâtre	weißlich	blanquecino		1
	green yellow	jaune verdâtre	grüngelb	amarillo verde		2
	yellow	jaune	gelb	amarillo	Charité, IAC Paulista	3
	yellow orange	orange jaune	gelborange	amarillo anaranjado	Ester, IAC 273, Summer Queen	4
	orange	orange	orange	anaranjado	IAC 275	5
31.	Time of first harvest	Plante : époque de la première récolte	Pflanze: Zeitpunkt der ersten Erntereife	Planta: época de la primera cosecha		
(+)						
QN	early	précoce	früh	temprana	Ester	3
	medium	moyenne	mittel	media	Charité	5
	late	tardive	spät	tardía		7
32.	Time of main harvest	Époque de la récolte principale	Zeitpunkt der Haupternte	Época de la cosecha principal		
(+)						
QN	early	précoce	früh	temprana	Charité	3
	medium	moyenne	mittel	media		5
	late	tardive	spät	tardía		7

8. Explanations on the Table of Characteristics

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:

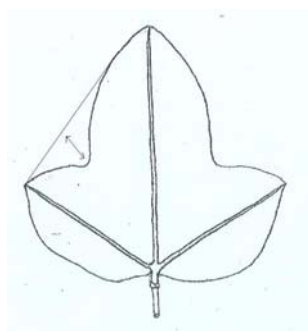
- (a) Leaf blade and petiole: Observations on the leaf blade and the petiole should be made on fully developed leaves from the middle third of vigorous current-season shoots.
- (b) Flower: Observations on the flower should be made on fully opened flowers.
- (c) Fruit: Observations on the fruit should be made on 10 typical fruits at the time of ripeness for eating, when 30% of the surface area of the fruit has changed color.

8.2 *Explanations for individual characteristics*

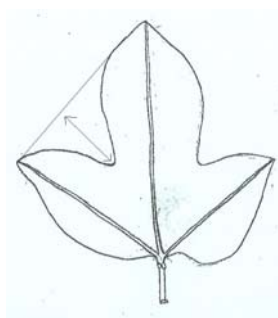
Ad. 1: Plant: color of vine

Observations should be made on vigorous current season's shoots.

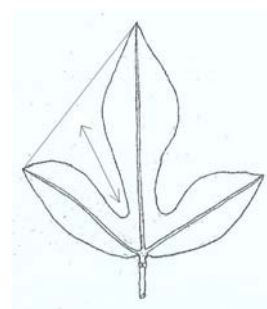
Ad. 5: Leaf blade: depth of sinus



3
shallow

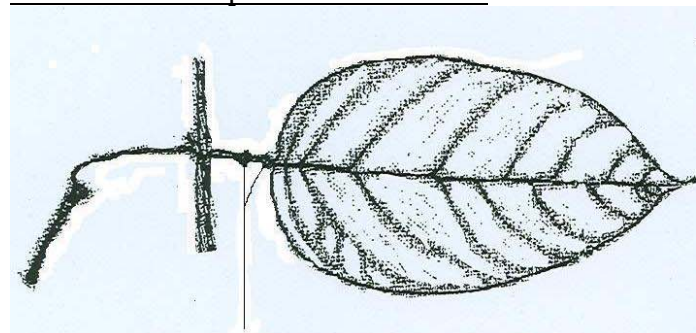


5
medium

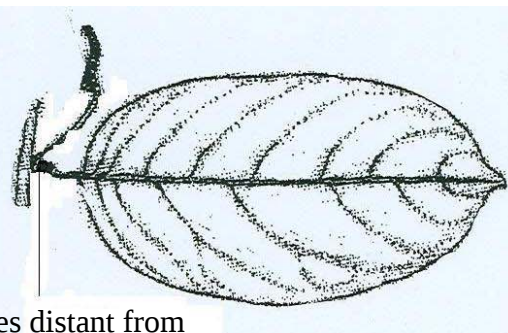


7
deep

Ad. 10: Petiole: position of nectaries



nectaries adjacent to
leaf blade



nectaries distant from
leaf blade

Ad. 18: Flower: presence of purple rings on corona filaments

Ad. 21: Flower: spots on distal part of corona filaments

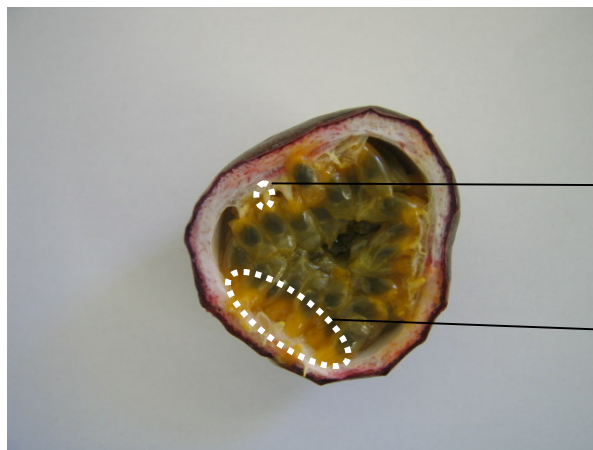


dark spots on distal part
of corona filaments

purple rings on corona filament

Ad. 29: Fruit: color of foeniculum

Ad. 30: Fruit: color of pulp



color of foeniculum

color of pulp

Ad. 31: Time of first harvest

Time from planting until first harvest. The time of the first harvest is when the first crop of fruit is ripe (30% of the surface of the fruit has changed color).

Ad. 32: Time of main harvest

The time of main harvest is when the largest flush of fruit is ripe (30% of the surface of the fruit has changed color).

9. Literature

Van der Plank, J., 1991: Passion Flowers and Passion Fruit. The MIT Press Cambridge, Massachusetts, US, 176 pp.

10. Technical Questionnaire

TECHNICAL 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 Questionnaire		
1.1 Botanical name	<i>Passiflora edulis</i> Sims	
1.2 Common name	Granadilla, Passion fruit	
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 []
(please state parent varieties)
- (b) partially known cross []
(please state known parent variety(ies))
- (c) unknown cross []

4.1.2 Mutation []
(please state parent variety)

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

4.1.4 Other (please provide details) []

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings []
- (b) *in vitro* propagation []
- (c) other (state method) []

4.2.2 Other (please provide details) []

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

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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
5.1 Leaf blade: blistering (7)		
absent	Charité	1[]
present	Marianna	9[]
5.2 Fruit: ratio length/diameter (24)		
very elongated	Ester	1[]
elongated		3[]
medium	Ruby Star, Summer Queen	5[]
compressed		7[]
very compressed	Charité	9[]
5.3 Fruit: color of skin (25)		
yellow	IAC 273, IAC 275, IAC 277	1[]
red	Panama Red	2[]
dark purple	Australian purple	3[]

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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>	<i>Fruit: color</i>	<i>dark purple</i>	<i>yellow</i>
Comments:			

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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 should accompany the Technical Questionnaire.

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.

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

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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 [☐] No [☐]

(If yes, please provide details as specified by the Authority)

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

Applicant's name

Signature

Date

[End of document]