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Ces principes directeurs d'examen ont été remplacés par une version ultérieure. La version adoptée la plus récente des principes directeurs d'examen figure à l'adresse suivante : [http://www.upov.int/test\\_guidelines/fr/list.jsp](http://www.upov.int/test_guidelines/fr/list.jsp)

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Diese Prüfungsrichtlinien wurden durch eine neuere Fassung ersetzt. Die neueste angenommene Fassung von Prüfungsrichtlinien ist unter [http://www.upov.int/test\\_guidelines/en/list.jsp](http://www.upov.int/test_guidelines/en/list.jsp) zu finden.

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Las presentes directrices de examen han sido reemplazadas por una versión posterior. La versión de las directrices de examen de más reciente aprobación está disponible en [http://www.upov.int/test\\_guidelines/es/list.jsp](http://www.upov.int/test_guidelines/es/list.jsp).

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TG/142/4

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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**WATERMELON**

(*Citrullus lanatus* (Thunb.) Matsum. et  
Nakai)

\*

**GUIDELINES  
FOR THE CONDUCT OF TESTS  
FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

Alternative Names:<sup>\*</sup>

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Citrullus lanatus</i> (Thunb.) Matsum. et Nakai, <i>Citrullus vulgaris</i> Schrad.	Watermelon	Pastèque	Wassermelone	Sandía

**ASSOCIATED DOCUMENTS**

These guidelines should be read in conjunction with document TG/1/3, “General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants” (hereinafter referred to as 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](http://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 *Citrullus lanatus* (Thunb.) Matsum. et Nakai.

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 seed.

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

1,200 seeds.

2.4 The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.

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 *Duration of Tests*

The minimum duration of tests should normally be two independent growing cycles.

3.2 *Testing Place*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be observed at that place, the variety may be tested at an additional place.

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.

3.3.1 Type of observation

The recommended method of observing the characteristic is indicated by the following key in the second column of the Table 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

#### 3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 35 plants in the open or 20 plants in the greenhouse, which should be divided between two or more replicates.

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

Unless otherwise indicated, all observations should be made on 20 plants or parts taken from each of 20 plants.

#### 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 minimum duration of tests recommended in Section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

##### 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*

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, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 35 plants or 20 plants, 2 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 seed stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

4.3.3 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 is 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) Ploidy (characteristic 1)
- (b) Fruit: weight (characteristic 2819)
- (c) Fruit: shape ~~ef~~in longitudinal section (characteristic 2920)
- (d) Fruit: ground color of skin (characteristic 3021)
- (e) Fruit: stripes (characteristic 4030)
- (f) Fruit: width of stripes (characteristic 4233)
- (g) Fruit: main color of flesh (characteristic 4636)
- (h) Seed: ground color of testa (characteristic 5141).

5.4 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 Section 6.1.2
  - QL Qualitative characteristic – see Section 6.3
  - QN Quantitative characteristic – see Section 6.3
  - PQ Pseudo-qualitative characteristic – see Section 6.3
  - MG Single measurement of a group of plants or parts of plants – see Section 3.3.1
  - MS Measurement of a number of individual plants or parts of plants – see Section 3.3.1
  - VG Visual assessment by a single observation of a group of plants or parts of plants – see Section 3.3.1
  - VS Visual assessment by observation of individual plants or parts of plants – see Section 3.3.1
- (a) – (c) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1.
- (+) See Explanations on the Table of Characteristics in Chapter 8, Section 8.2.

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

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
<b>1.</b>	<b>VS</b>	<b>Ploidy</b>	<b>Ploidie</b>	<b>Ploidie</b>	<b>Ploidía</b>	
QL	diploid	diploïde	diploid	diploide	Sugar Baby, Yamato 3	2
	triploid	triploïde	triploid	triploide	Kimiwa Red Seedless, Kôyô Seedless, Pepsin	3
<b>2.</b>	<b>VG</b>	<b>Cotyledon: shape</b>	<b>Cotylédon: forme</b>	<b>Keimblatt: Form</b>	<b>Cotiledón: forma</b>	
(+)						
PQ	narrow elliptic	elliptique étroit	schmal elliptisch	elíptica estrecha	Kahô, Topgun	1
	medium elliptic	elliptique moyen	mittel elliptisch	elíptica media	Crimson Sweet, Farao, Napsugár, Sweet Favorite, Yamato 3,	2
	broad elliptic	elliptique large	breit elliptisch	elíptica ancha	Kanro, Oasis, Rubin, Scarlet Trio	3
<b>3.</b>	<b>MS/ VG</b>	<b>Cotyledon: size</b>	<b>Cotylédon: taille</b>	<b>Keimblatt: Größe</b>	<b>Cotiledón: tamaño</b>	
QN	small	petit	klein	pequeño	Crimson Glory, Kanro, Rapid, Rocio	3
	medium	moyen	mittel	medio	Granit, Crisby, Panni Sugar Suika, Yamato 3,	5
	large	grand	groß	grande	Candida, Farao, Kurobe, Royal flesh hybrid	7
<b>4.</b>	<b>VG</b>	<b>Cotyledon: intensity of green color</b>	<b>Cotylédon: intensité de la couleur verte</b>	<b>Keimblatt: Intensität der Grünfärbung</b>	<b>Cotiledón: intensidad del color verde</b>	
QN	light	faible	hell	claro	À graine rouge à confire à chair verte, Shin Kurobe 7	3
	medium	moyenne	mittel	medio	Yamato 3	5
	dark	forte	dunkel	oscuro	Kahô	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>5. VG Cotyledon: spots</b>							
QL	absent		absentes	fehlend	ausentes	Yamato 3	1
	present		présentes	vorhanden	presentes	Okan	9
<b>6. MS Plant: length of internode</b>							
QN	short		court	kurz	corto	Fumin, Tsurunashi Asahi	3
	medium		moyen	mittel	medio	Crimstar, Panonia, Yamato 3,	5
	long		long	lang	largo	Charleston Gray, Crimson Sweet, Kanro	7
<b>7. MS/ VG Leaf blade: length (on the 3<sup>rd</sup> leaf when fully developed)</b>							
QN (a)	short		court	kurz	corto	Kanro 3	3
	medium		moyen	mittel	medio	Sugar Baby, Yamato	5
	long		long	lang	largo	À graine rouge à confire à chair verte, Sweet Siberian	7
<b>8. MS/ VG Leaf blade: width (as for 7)</b>							
QN (a)	narrow		étroit	schmal	estrecho	Ogon, Striped Blue Limber	3
	medium		moyen	mittel	medio	Candida, Sugar Baby, Yamato 3	5
	broad		large	breit	ancho	Fabiola, Sanpaku	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>9.</b>	<b>MS</b>	<b>Leaf blade: ratio length/width (as for 7)</b>	<b>Limbe: rapport longueur/largeur (comme pour 7)</b>	<b>Blattspreite: Verhältnis Länge/Breite (wie unter 7)</b>	<b>Limbo: relación entre la longitud y la anchura (como para 7)</b>		
QN	(a)	small	petit	klein	pequeña	Kanro	3
		medium	moyen	mittel	media	Sugar Baby, Yamato 3	5
		large	grand	groß	grande	Kurobe	7
<b>10.</b>	<b>VG</b>	<b>Leaf blade: color</b>	<b>Limbe: couleur</b>	<b>Blattspreite: Farbe</b>	<b>Limbo: color</b>		
PQ	(a)	yellow-green	vert-jaune	gelbgrün	verde amarillento	Baby Fun, Okan	1
		green	vert	grün	verde	Yamato 3	2
		grey-green	vert-gris	graugrün	verde grisáceo	Candida, Sugar Baby	3
<b>11.</b>	<b>VG</b>	<b>Leaf blade: intensity of color</b>	<b>Limbe: intensité de la couleur</b>	<b>Blattspreite: Intensität der Farbe</b>	<b>Limbo: intensidad del color</b>		
QN	(a)	light	claire	hell	claro	Giant Flesh	3
		medium	moyenne	mittel	medio	Yamato 3	5
		dark	foncée	dunkel	oscuro	Kurobe	7
<b>12.</b>	<b>VG</b>	<b>Leaf blade: degree of primary lobing</b>	<b>Limbe: degré de la découpe primaire du bord</b>	<b>Blattspreite: Stärke der Lappung erster Ordnung</b>	<b>Limbo: grado de lobulado primario</b>		
QN	(a)	weak	faible	gering	débil	Rapid	3
		medium	moyenne	mittel	medio	Fumin	5
		strong	forte	stark	fuerte	Panonia, Panni	7
<b>13.</b>	<b>VG</b>	<b>Leaf blade: degree of secondary lobing</b>	<b>Limbe: degré de la découpe secondaire du bord</b>	<b>Blattspreite: Stärke der Lappung zweiter Ordnung</b>	<b>Limbo: grado de lobulado secundario</b>		
QN	(a)	weak	faible	gering	débil	Daisen	3
		medium	moyenne	mittel	medio	Sugar Baby	5
		strong	forte	stark	fuerte	Fumin	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>14.</b>	<b>VG</b>	<b>Leaf blade: blistering (on 10<sup>th</sup> to 15<sup>th</sup> leaf)</b>	<b>Limbe: cloûture (de la 10<sup>e</sup> à la 15<sup>e</sup> feuille)</b>	<b>Blattspreite: Blasigkeit (vom 10. bis 15. Blatt)</b>	<b>Limbo: abullonado (de la 10<sup>a</sup> a la 15<sup>a</sup> hoja)</b>		
QN	(a)	weak	faible	gering	débil	Tabata	3
		medium	moyenne	mittel	medio	Yamato 3	5
		strong	forte	stark	fuerte	Klondike Striped II	7
<b>15.</b>	<b>VG</b>	<b>(*) Leaf blade: marbling</b>	<b>Limbe: marbrures</b>	<b>Blattspreite: Marmorierung</b>	<b>Limbo: jaspeado</b>		
QN	(a)	absent or weak	absentes ou faibles	fehlend oder gering	ausente o muy débil	Sugar Baby, Yamato 3	1
		medium	moyennes	mittel	medio	Okan, Taiyô	2
		strong	fortes	stark	fuerte		3
<b>16.</b>	<b>MS/ VG</b>	<b>Petiole: length</b>	<b>Pétiole: longueur</b>	<b>Blattstiell: Länge</b>	<b>Pecíolo: longitud</b>		
QN		short	court	kurz	corto	Sugar Baby, Yamato 3	3
		medium	moyen	mittel	medio	Kahô, Panonia	5
		long	long	lang	largo	Charleston Gray, Kurobe	7
<b>17.</b>	<b>VG</b>	<b>Ovary: size (at the time of flowering)</b>	<b>Ovaire: taille (à l'époque de la floraison)</b>	<b>Fruchtknoten: Größe (zum Zeitpunkt der Blüte)</b>	<b>Ovario: tamaño (en el momento de la floración)</b>		
QN		small	petit	klein	pequeño	Kahô	3
		medium	moyen	mittel	mediano	Fumin	5
		large	grand	groß	grande	Ogon	7
<b>18.</b>	<b>VG</b>	<b>Ovary: pubescence</b>	<b>Ovaire: pilosité</b>	<b>Fruchtknoten: Behaarung</b>	<b>Ovario: pubescencia</b>		
QN		weak	faible	gering	débil	Rapid	3
		medium	moyenne	mittel	media	Panonia, Yamato 3	5
		strong	forte	stark	fuerte	Kahô	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>19.</b>	<b>MS</b>	<b>Fruit: weight (1<sup>st</sup> mature fruit)</b>	<b>Fruit: poids (1<sup>er</sup> fruit mûr)</b>	<b>Frucht: Gewicht (1. reife Frucht)</b>	<b>Fruto: peso (1<sup>er</sup> fruto maduro)</b>		
QN	(b)	very low	très petit	sehr niedrig	muy pequeño	Colocynthis	1
		very low to low	très petit à petit	sehr niedrig bis niedrig	muy pequeño a pequeño	Mini	2
		low	petit	niedrig	pequeño	Angela	3
		low to medium	petit à moyen	niedrig bis mittel	prequeño a medio	Pasión	4
		medium	moyen	mittel	medio	Boston, Sugar Baby	5
		medium to high	moyen à grand	mittel bis hoch	medio a grande	Panonia	6
		high	grand	hoch	grande	Fabiola	7
		high to very high	grand à très grand	hoch bis sehr hoch	grande a muy grande	Crimson Sweet	8
		very high	très grand	sehr hoch	muy grande	Florida Giant	9
<b>20.</b>	<b>VG</b>	<b>Fruit: shape in longitudinal section</b>	<b>Fruit: forme en section longitudinale</b>	<b>Frucht: Form im Längsschnitt</b>	<b>Fruto: forma en sección longitudinal</b>		
PQ	(b)	circular	circulaire	kreisförmig	circular	Kanro, Sugar Baby	1
		broad elliptic	elliptique large	breit elliptisch	elíptico ancho	Fumin, Gray Belle, Yellow Baby, Zorba	2
		elliptic	elliptique	elliptisch	elíptico	Congo, Kurobe, Picnic	3
		elongated elliptic	elliptique allongé	länglich elliptisch	elíptico alargado	Charleston Gray	4
<b>21.</b>	<b>VG</b>	<b>Fruit: ground color of skin</b>	<b>Fruit: couleur du fond de l'épiderme</b>	<b>Frucht: Grundfarbe der Schale</b>	<b>Fruto: color de fondo de la epidermis</b>		
QL	(b)	yellow	jaune	gelb	amarillo	Okan, Taiyô	1
		green	vert	grün	verde	Fabiola, Sugar Baby, Sugar Belle	2

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>22.</b>	<b>VG</b>	<b>Fruit: intensity of ground color of skin</b>	<b>Fruit: intensité de la couleur du fond de l'épiderme</b>	<b>Frucht: Intensität der Grundfarbe der Schale</b>	<b>Fruto: intensidad del color de fondo de la epidermis</b>		
(*)							
(+)							
QN	(b)	very light	très claire	sehr hell	muy claro	Fumin	1
		very light to light	très claire à claire	sehr hell bis hell	muy claro a claro	Crimson Sweet	2
		light	claire	hell	claro	Estella Rocha, Sweet Favorite, Yamato 3	3
		light to medium	claire à moyenne	hell bis mittel	claro a medio		4
		medium	moyenne	mittel	medio	Asahi Yamato, Lucky Sweet, Rodeo	5
		medium to dark	moyenne à foncée	mittel bis dunkel	medio a oscuro	Sweet Marvel	6
		dark	foncée	dunkel	oscuro	Benimusume, Resistant	7
		dark to very dark	foncée à très foncée	dunkel bis sehr dunkel	oscuro a muy oscuro	Sugar Baby, Panni	8
		very dark	très foncée	sehr dunkel	muy oscuro	Rocio, Tabor 5	9
<b>23.</b>	<b>VG</b>	<b>Fruit: size of insertion of peduncle</b>	<b>Fruit: taille de l'insertion du pédoncule</b>	<b>Frucht: Größe des Stielansatzes</b>	<b>Fruto: tamaño de la inserción del pedúnculo</b>		
(+)							
QN	(b)	small	petite	klein	pequeño	Charleston Gray, Sugar Bush	3
		medium	moyenne	mittel	mediano	Fumin, Picnic	5
		large	grande	groß	grande	Dixie Queen, Kanro	7
<b>24.</b>	<b>VG</b>	<b>Fruit: depression at base</b>	<b>Fruit: dépression à la base</b>	<b>Frucht: Vertiefung an der Basis</b>	<b>Fruto: depresión de la base</b>		
(+)							
QN	(b)	shallow	peu profonde	flach	poco profunda	Kahō, Yellow Baby	3
		medium	moyenne	mittel	media	Triple Sweet, Yamato 3	5
		deep	profonde	tief	profunda	À graine rouge à confire à chair verte, Kanro	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>25.</b>	<b>VG</b>	<b>Fruit: shape of apical part</b>	<b>Fruit: forme de la partie apicale</b>	<b>Frucht: Form des apikalen Teils</b>	<b>Fruto: forma de la zona apical</b>		
(*)							
PQ	(b)	flat	plate	flach	plana	Cream Sinka, Kanro	1
		flat to rounded	plate à arrondie	flach bis abgerundet	plana a redondeada		2
		rounded	arrondie	abgerundet	redondeada	Glory, Sugar Baby, Toro, Yamato 3	3
		rounded to conical	arrondie à conique	abgerundet bis kegelförmig	redondeada a cónica		4
		conical	conique	kegelförmig	cónica	Kahō	5
<b>26.</b>	<b>VG</b>	<b>Fruit: depression at apex</b>	<b>Fruit: cuvette pistillaire</b>	<b>Frucht: Vertiefung an der Spitze</b>	<b>Fruto: depresión del ápice</b>		
(+)							
QN	(b)	shallow	peu profonde	flach	poco profunda	Burpee Hybrid, Kahō	3
		medium	moyenne	mittel	media	Asahi Miyako, Fumin	5
		deep	profonde	tief	profunda		7
<b>27.</b>	<b>VG</b>	<b>Fruit: size of pistil scar</b>	<b>Fruit: taille de l'attache pistillaire</b>	<b>Frucht: Größe der Griffelnarbe</b>	<b>Fruto: tamaño de la cicatriz del pistilo</b>		
QN	(b)	small	petite	klein	pequeña	Charleston Gray, Daisen	3
		medium	moyenne	mittel	media	Yamato 3	5
		large	grande	groß	grande	Kanro	7
<b>28.</b>	<b>VG</b>	<b>Fruit: distribution of grooves</b>	<b>Fruit: distribution des cannelures</b>	<b>Frucht: Verteilung der Riefen</b>	<b>Fruto: distribución de las acanaladuras</b>		
PQ	(b)	absent	absentes	fehlend	ausente	Sugar Baby, Yamato	1
		at basal half	au niveau de la moitié basale	an der basalen Hälfte	en la mitad basal		2
		at apical half	au niveau de la moitié apicale	an der apikalen Hälfte	en la mitad apical		3
		on whole fruit	sur tout le fruit	an der gesamten Frucht	en todo el fruto	Kurobe, Tabata	4

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>29.</b>	<b>VG</b>	<b>Fruit: degree of grooving</b>	<b>Fruit: degré de la cannelure</b>	<b>Frucht: Grad der Riefung</b>	<b>Fruto: grado de acanalado</b>		
QN		weak	faible	gering	débil	Rapid, Kanro	3
		medium	moyenne	mittel	medio	Miyako, Asahi	5
		strong	forte	stark	fuerte	Napsugár, Marsowszky, Panni	7
<b>30.</b>	<b>VG</b>	<b>Fruit: stripes</b>	<b>Fruit: stries</b>	<b>Frucht: Streifen</b>	<b>Fruto: rayas</b>		
Q(*) (+)		(b) absent	absentes	fehlend	ausentes	Asahi, Yamato, Marsowszky, Sugar Baby	1
QL		present	presentes	vorhanden	presentes	Kanro, Yellow Baby	9
<b>31.</b>	<b>VG</b>	<b>Fruit: type of stripes</b>	<b>Fruit: type de stries</b>	<b>Frucht: Art der Streifen</b>	<b>Fruto: tipo de rayas</b>		
QL		diffused	diffuses	diffus	difusas	Asahi, Yamato, Fumin	1
		clearly defined	clairement définies	deutlich definiert	claramente definidas	Kanro, Miyako, Crimson Sweet	2
<b>32.</b>	<b>VG</b>	<b>Fruit: intensity of color of stripes</b>	<b>Fruit: intensité de la couleur des stries</b>	<b>Frucht: Intensität der Farbe der Streifen</b>	<b>Fruto: intensidad del color de las rayas</b>		
Q(*) (+)		(b) very light	très faible	sehr hell	muy claro		1
QN		light	faible	hell	claro		3
		medium	moyenne	mittel	medio	Kurobe	5
		dark	forte	dunkel	oscuro	Crimson Sweet, Miyako 3	7
		very dark	très forte	sehr dunkel	muy oscuro	Tabata	9

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>33.</b>	<b>(*)</b>	<b>VG</b>	<b>Fruit: width of stripes</b>	<b>Fruit: largeur des stries</b>	<b>Frucht: Breite der Streifen</b>	<b>Fruto: anchura de las rayas</b>	
QN	(b)	very narrow	très étroites	sehr schmal	muy estrechas	Napsugár	1
		narrow	étroites	schmal	estrechas	Festival Queen, Yamato Cream 2	3
		medium	moyennes	mittel	medias		5
		broad	larges	breit	anchas	Crimson Sweet, Kurobe, Sweet Heart	7
		very broad	très larges	sehr breit	muy anchas	Sangria	9
<b>34.</b>	<b>VG</b>	<b>Fruit: intensity of marbling</b>	<b>Fruit: intensité de la marbrure</b>	<b>Frucht: Intensität der Marmorierung</b>	<b>Fruto: intensidad del jaspeado</b>		
QN	(b)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Napsugár	1
		weak	faible	gering	débil	Fumin	3
		medium	moyenne	mittel	medio	Panni, Yamoto 3	5
		strong	forte	stark	fuerte	Kurobe	7
		very strong	très forte	sehr stark	muy fuerte	Rapid	9
<b>35.</b>	<b>(+)</b>	<b>MS/ VG</b>	<b>Fruit: thickness of pericarp</b>	<b>Fruit: épaisseur du péricarpe</b>	<b>Frucht: Dicke des Perikarps</b>	<b>Fruto: espesor del pericarpo</b>	
QN	(b)	thin	mince	dünn	delgado	À graine rouge à confire à chair verte, Beni-kodama, Kahō	3
		medium	moyen	mittel	medio	Panonia, Sugar Baby, Sugar Belle, Yamato 3	5
		thick	épais	dick	grueso	Charleston Gray, Crimson Sweet, Kurobe, Triple Sweet	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>36.</b>	<b>(*)</b>	<b>VS</b>	<b>Fruit: main color of flesh</b>	<b>Fruit: couleur principale de la chair</b>	<b>Frucht: Hauptfarbe des Fleisches</b>	<b>Fruto: color principal de la pulpa</b>	
<b>PQ</b>	<b>(b)</b>	white	blanche	weiß	blanco	Yamato Cream 3	1
		yellow	jaune	gelb	amarillo	Yamato Cream 1, Napsugár	2
		orange	orange	orange	naranja	Kahô	3
		pink	rose	rosa	rosa	Sadur	4
		pinkish red	rouge rosâtre	rosarot	rojo rosado	Bingo, Crimson Sweet	5
		red	rouge	rot	rojo	Asahi Yamato, Sugar Baby	6
<b>37.</b>		<b>VG</b>	<b>Fruit: intensity of main color of flesh</b>	<b>Fruit: intensité de la couleur principale de la chair</b>	<b>Frucht: Intensität der Hauptfarbe des Fleisches</b>	<b>Fruto: intensidad del color principal de la pulpa</b>	
<b>QN</b>	<b>(b)</b>	light	claire	hell	claro		3
		medium	moyenne	mittel	medio		5
		dark	foncée	dunkel	oscuro		7
<b>38.</b>	<b>(+)</b>	<b>MS</b>	<b>Fruit: firmness of flesh</b>	<b>Fruit: fermeté de la chair</b>	<b>Frucht: Festigkeit des Fleisches</b>	<b>Fruto: firmeza de la pulpa</b>	
<b>QN</b>	<b>(b)</b>	soft	molle	weich	blanda	Yamato Cream 2	3
		medium	moyenne	mittel	media	Miyako 3	5
		firm	ferme	fest	firme	Fumin	7
<b>39.</b>	<b>VG</b>	<b>QN</b>	<b>Fruit: number of seeds</b>	<b>Fruit: nombre de graines</b>	<b>Frucht: Anzahl Samen</b>	<b>Fruto: número de semillas</b>	
	<b>(b)</b>	absent or few	nul ou très petit	fehlend oder sehr gering	ausente o muy bajo	Tanenashi Kôyô	1
		medium	moyen	mittel	medio	Miyako 3	2
		many	grand	groß	alto	Fumin	3

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>40.</b>	<b>MS/</b> <b>(*)</b>	<b>VG</b>	<b>Seed: size</b>	<b>Graine: taille</b>	<b>Samen: Größe</b>	<b>Semilla: tamaño</b>	
QN	(c)	very small	très petite	sehr klein	muy pequeña	Urimi	1
		small	petite	klein	pequeña	Panonia, Tabata	3
		medium	moyenne	mittel	mediana	Sugar Baby	5
		large	grande	groß	grande	Charleston Gray, Kurobe	7
		very large	très grande	sehr groß	muy grande	Malali	9
<b>41.</b>	<b>VG</b>	<b>Seed: ground color of testa</b>	<b>Graine: couleur de fond du tégument</b>	<b>Samen: Grundfarbe der Samenschale</b>	<b>Semilla: color de fondo del tegumento</b>		
PQ	(c)	white	blanc	weiß	blanco	Sanpaku	1
		cream	crème	cremefarben	crema	Kurobe	2
		green	vert	grün	verde	Green Citron	3
		red	rouge	rot	rojo	Red Citron	4
		red-brown	brun-rouge	rotbraun	marrón rojizo	Kahô	5
		brown	brun	braun	marrón	Otome, Sugar Baby	6
		black	noir	schwarz	negro	Yamato Cream	7
<b>42.</b>	<b>VG</b>	<b>Seed: secondary color of testa</b>	<b>Graine: couleur secondaire de fond du tégument</b>	<b>Samen: sekundäre Grundfarbe der Samenschale</b>	<b>Semilla: color secundario del tegumento</b>		
QL	(c)	absent	absente	fehlend	ausente	Kahô	1
		present	présente	vorhanden	present	Charleston Gray	9

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>43.</b>	<b>VG</b>	<b>Seed: distribution of secondary color of testa</b>	<b>Graine: distribution de la couleur secondaire du tégument</b>	<b>Samen: Verteilung der Sekundärfarbe der Samenschale</b>	<b>Semilla: distribución del color secundario del tegumento</b>		
(+)							
<b>PQ</b>	<b>(c)</b>	in dots only	en points seulement	nur in Punkten	sólo en puntos	Charleston Gray, Excel	1
		in dots and in patches	en points et en taches	in Punkten und Flecken	en puntos y manchas	Lady, Yamato 3	2
		in patches only	en taches seulement	nur in Flecken	sólo en manchas	Kurobe, Rattle Snake	3
<b>44.</b>	<b>VG</b>	<b>Seed: area of secondary color in relation to that of ground color</b>	<b>Graine: surface de la couleur secondaire par rapport à celle de la couleur de fond</b>	<b>Samen: Ausdehnung der Sekundärfarbe im Vergleich zu der Grundfarbe</b>	<b>Semilla: área del color secundario en relación con el del color de fondo</b>		
<b>QN</b>	<b>(c)</b>	small	petite	klein	pequeño	Early Star	3
		medium	moyenne	mittel	medio	Grimson Sweet	5
		large	grande	groß	grande	Resistant	7
<b>45.</b>	<b>VG</b>	<b>Seed: patches at hilum</b>	<b>Graine: taches sur le hile</b>	<b>Samen: Flecken am Nabel</b>	<b>Semilla: manchas en el hilo</b>		
<b>QL</b>	<b>(c)</b>	absent	absentes	fehlend	ausentes	Daisen, Kahô	1
		present	présentes	vorhanden	presentes	Kurobe, Rattle Snake, Yamato 3	9

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>46.</b>	<b>VG</b>	Time of female flowering (50% of plants with at least one female flower)	Époque de floraison femelle (50% des plantes avec au moins une fleur femelle)	Zeitpunkt der Blüte der weiblichen Blüte (50% der Pflanzen mit mindestens einer weiblichen Blüte)	Época de la floración femenina (50% de las plantas con al menos una flor femenina)		
QN		early	précoce	früh	temprana		3
		medium	moyenne	mittel	media	Sugar Baby, Yamato 3	5
		late	tardive	spät	tardía	Kurobe	7
<b>47.</b>	<b>VG</b>	Time of maturity (50% of plants with at least one ripe fruit)	Époque de maturité (50% des plantes avec au moins un fruit mûr)	Zeitpunkt der Reife (50% der Pflanzen mit mindestens einer reifen Frucht)	Época de madurez (50% de las plantas con al menos un fruto maduro)		
QN		early	précoce	früh	temprana	Kahō, Sugar Baby	3
		medium	moyenne	mittel	media	Panonia, Yamato 3	5
		late	tardive	spät	tardía	Charleston Gray, Fumin, Kurobe	7
<b>48.</b>		Resistance to Fusarium oxysporum f.sp. niveum (E.F. Smith) Snyder et Hansen	Résistance au Fusarium oxysporum f.sp. niveum (E.F. Smith) Snyder et Hansen	Resistenz gegen Fusarium oxysporum f.sp. niveum (E.F. Smith) Snyder et Hansen	Resistencia a Fusarium oxysporum f.sp. niveum (E.F. Smith) Snyder et Hansen		
<b>48.1</b>	<b>Race 0</b>	<b>Pathotype 0</b>	<b>Pathotyp 0</b>	<b>Raza 0</b>			
	absent	absente	fehlend	ausente	Kahō	1	
	present	présente	vorhanden	presente	Calhoun Gray, Charleston Gray	9	
<b>48.2</b>	<b>Race 1</b>	<b>Pathotype 1</b>	<b>Pathotyp 1</b>	<b>Raza 1</b>			
	absent	absente	fehlend	ausente	Kahō	1	
	present	présente	vorhanden	presente	Calhoun Gray	9	
<b>48.3</b>	<b>Race 2</b>	<b>Pathotype 2</b>	<b>Pathotyp 2</b>	<b>Raza 2</b>			
	absent	absente	fehlend	ausente	Kahō	1	
	present	présente	vorhanden	presente	P.I.-296341-FR	9	

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>49.</b> (+)	<b>Resistance to <i>Colletotrichum lagenarium</i> (<i>passerini</i>) Ellis et Halsted</b>	<b>Résistance au <i>Colletotrichum lagenarium</i> (<i>passerini</i>) Ellis et Halsted</b>	<b>Resistenz gegen <i>Colletotrichum lagenarium</i> (<i>passerini</i>) Ellis et Halsted</b>	<b>Resistencia a <i>Colletotrichum lagenarium</i> (<i>passerini</i>) Ellis et Halsted</b>		
<b>49.1</b>	<b>Race 1</b>	<b>Pathotype 1</b>	<b>Pathotyp 1</b>	<b>Raza 1</b>		
	absent	absente	fehlend	ausente	Kahô	1
	present	présente	vorhanden	presente	Charleston Gray, Congo	9
<b>49.2</b>	<b>Race 2</b>	<b>Pathotype 2</b>	<b>Pathotyp 2</b>	<b>Raza 2</b>		
	absent	absente	fehlend	ausente	Kahô	1
	present	présente	vorhanden	presente	African citron W-695	9
<b>49.3</b>	<b>Race 3</b>	<b>Pathotype 3</b>	<b>Pathotyp 3</b>	<b>Raza 3</b>		
	absent	absente	fehlend	ausente	Kahô	1
	present	présente	vorhanden	presente	Charleston Gray, Congo	9

[7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caractères](#)

← Formatted: Bullets and Numbering

9.8. Explanations on the Table of Characteristics

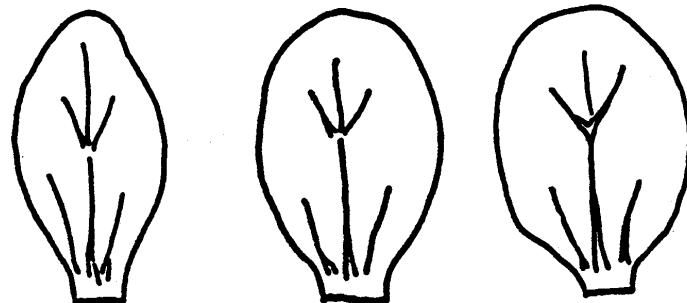
8.1 Explanations covering several characteristics

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

- (a) Leaf blade: All observations on the leaf blade should be recorded on fully developed leaves
- (b) Fruit: Unless otherwise indicated, all observations on the fruit should be made on first well developed, mature fruits.
- (c) Seed: All observations on the seed should be recorded on fully developed, mature seeds.

8.2 Explanations for individual characteristics

Ad. 2: Cotyledon: shape



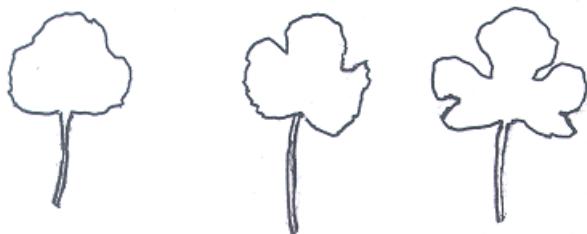
1  
narrow elliptic

2  
medium elliptic

3  
broad elliptic

| Ad. 1412: Leaf blade: degree of primary lobing

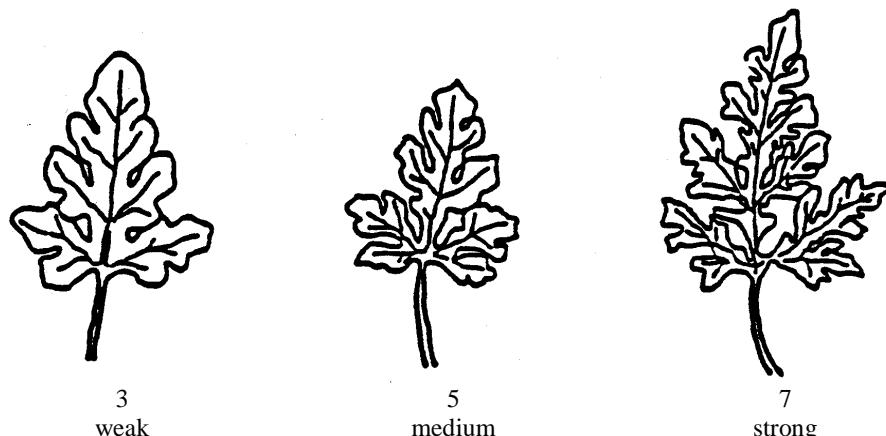
The incisions should be observed on the 3<sup>rd</sup> leaf of the main stem when fully developed.



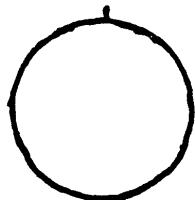
3 weak            5 medium            7 strong

| Ad. 1413: Leaf blade: degree of secondary lobing Leaf blade: depth of incisions of margin of leaf of central third of plant

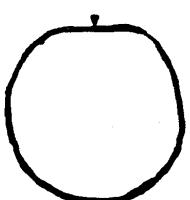
The incisions should be observed at the largest leaf between the fifteenth and twentieth node of the main stem.



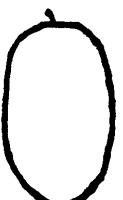
| Ad. 2920: Fruit: shape ~~of~~ in longitudinal section



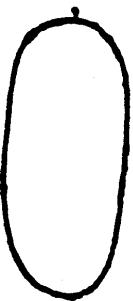
1  
~~round~~circular



2  
broad elliptic



3  
elliptic

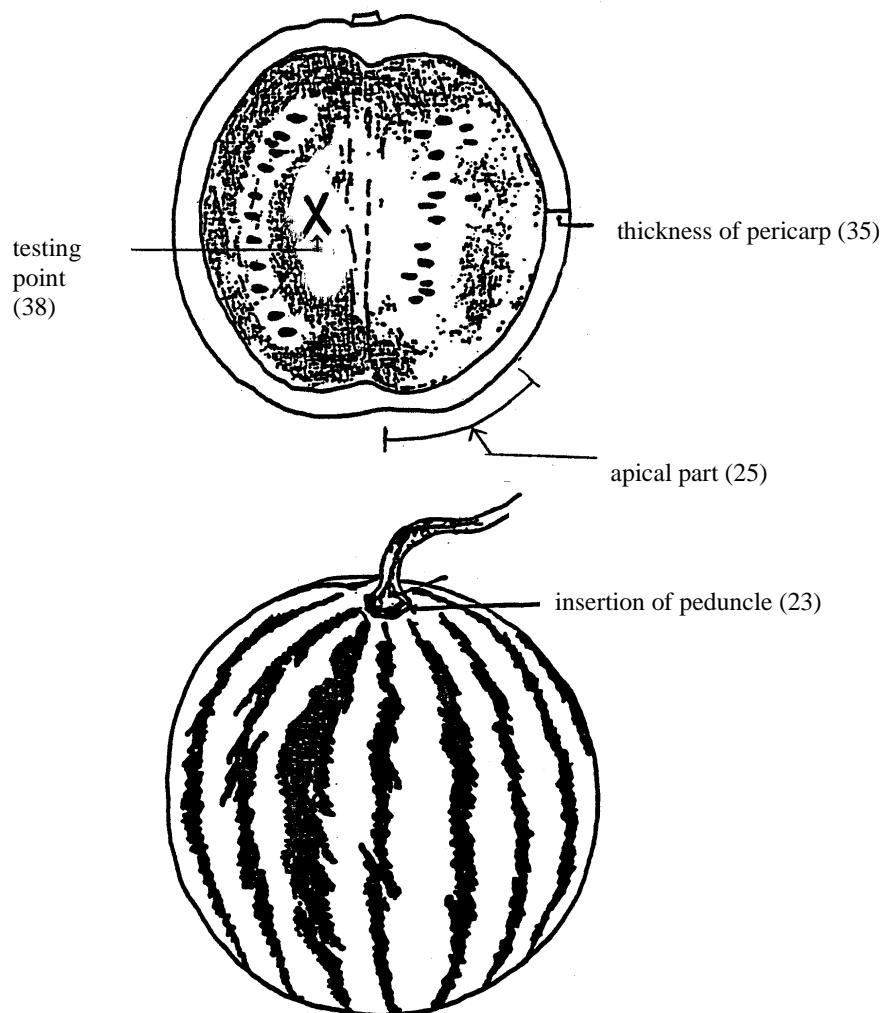


4  
~~cylindrically~~elongated elliptic

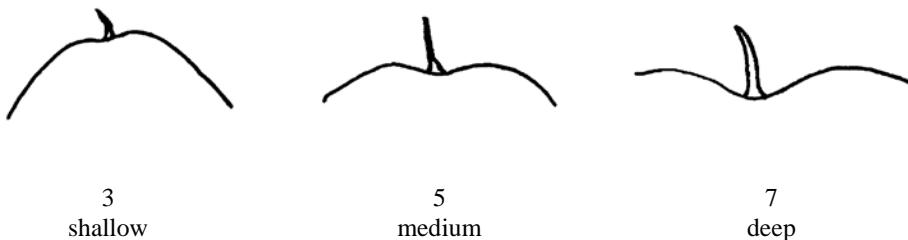
| Ad. 30 + 40 + 41 21 + 22 + 30 + 32: Fruit: ground color of skin and color of stripes

The ground color is defined as the lighter color and the color of the stripes as the darker color.

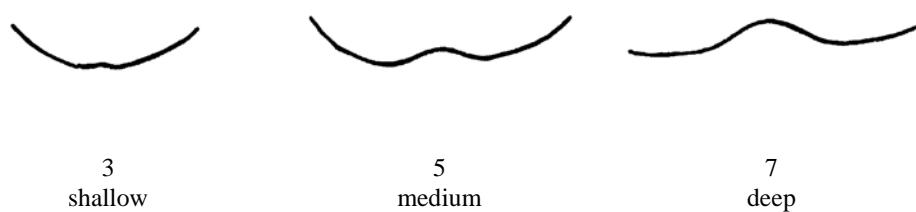
| Ad. 33 + 34 + 36 + 45 23 + 25 + 35 + 38: Fruit



Ad. 24: Fruit: depression at base



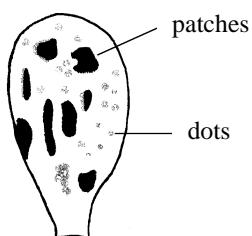
Ad. 26: Fruit: depression at apex



| Ad. 4838: Fruit: firmness of flesh

Testing method: Firmness is measured by a hardness meter (tester), which has 9 mm (diameter head) and measures from 10 g/cm<sup>2</sup>– 2000 g/cm<sup>2</sup>.

| Ad. 5343: Seed: distribution of secondary color of testa



| Ad. 5948: Resistance to *Fusarium oxysporum* f. sp. *niveum* (E.F. Smith) Snyder et Hansen

Maintenance of races

Type of medium: P.S.A. (Potato, Sugar and Agar) medium  
Special conditions: Stored below 5°C  
Preparation of inoculum: Shaking culture in P.S. (Potato and Sugar) liquid medium for 7 to 10 days at 28°C. Filtration by using double gauzes. Adjusting concentration of spore to  $1.3 \times 10^7$ /ml with sterilized water.

Execution of test

Sowing the seeds: In sterilized soil  
Growth stage of plants: Expanding of 2nd to 3rd true leaf  
Method of inoculation: Soaking of roots and of hypocotyl axis for one minute inoculum solution. After inoculation, transplantation of plantlets in sterilised (by steam) soil or perlite.  
Number of plants tested: 10 to 20 plants

Environmental condition after inoculation

Temperature: Day: 25°C; night: 16°C  
Light: Natural (longer than 12 hours)  
Growing method: In the greenhouse or climatic room. Application of liquid fertilizer every week.

Duration of test

Inoculation to last observation: 20 days. Disease symptoms appear from 5 to 10 days after inoculation. Observation should be made on several occasions

Remarks

Keeping of pathogenicity: Renewal of medium at least once a year

Standard varieties	Race 0	Race 1	Race 2
Black Diamond, Kahô	S	S	S
Charleston Gray	R	S	S
Calhoun Gray	R	R	S
P.I. 296341-FR	R	R	R

S: susceptible R: resistant

Ad. 49: Resistance to *Colletotrichum lagenarium (passerini)* Ellis et Halsted

Maintenance of races

Type of medium: P.S.A. (Potato, Sugar and Agar) medium  
Special conditions: Stored below 5°C  
Preparation of inoculum: Shaking culture in P.D. (Potato and Dextrose) liquid medium for 7 to 10 days at 28°C. Filtration by using double gauzes. Adjusting concentration of spore to  $1.5 \times 10^4$ /ml with sterilized water.

Execution of test

Sowing the seeds: In sterilized soil  
Growth stage of plants: Expanding of 2nd to 3rd true leaf  
Method of inoculation: Spraying inoculum on the leaves and the stem  
Treatment after inoculation: Inoculated plants should be placed in a dark and humid chamber at 25°C with 100% relative humidity for 48 hours before being moved to the greenhouse.  
Number of plants tested: 10 to 20 plants

Environmental condition after inoculation

Temperature: Day: 25°C; night: 16°C  
Light: Natural (longer than 12 hours)  
Growing method: In the greenhouse

Duration of test

Inoculation to last observation: 25 days

Remarks

Race: Three races are identified  
Keeping of pathogeneity: Renewal of medium at least once a year  
Standard varieties

	Race 1	Race 2	Race 3
Kahô	S	S	S
Charleston Gray,			
Congo	R	S	R
African citron W-695	S	R	S

S: susceptible R: resistant

9. Literature

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9-10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p style="text-align: center;"><b>TECHNICAL QUESTIONNAIRE</b> to be completed in connection with an application for plant breeders' rights</p> <p>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.</p>		
1. Subject of the Technical Questionnaire		
1.1 Latin Name	<i>Citrullus lanatus</i> (Thunb.) Matsum. et Nakai	
1.2 Common Name	Watermelon	
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

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
<b>5.1 Ploidy</b> <b>(1)</b>	diploid	Sugar Baby, Yamato 3	2[ ]
	triploid	Kimiwa Red Seedless, Kôyô Seedless, Pepsin	3[ ]
<b>5.2 Fruit: weight (1<sup>st</sup> mature fruit)</b> <b>(2819)</b>	very low	Colocynthis	1[ ]
	very low to low	Mini	2[ ]
	low	Angela	3[ ]
	low to medium	Pasión	4[ ]
	medium	Boston, Sugar Baby	5[ ]
	medium to high	Panonia	6[ ]
	high	Fabiola	7[ ]
	high to very high	Crimson Sweet	8[ ]
	very high	Florida Giant	9[ ]
<b>5.3 Fruit: shape <u>in</u> longitudinal section</b> <b>(2920)</b>	circular	Kanro, Sugar Baby	1[ ]
	broad elliptic	Fumin, Gray Belle, Yellow Baby, Zorba	2[ ]
	elliptic	Congo, Kurobe, Picnic	3[ ]
	elongated elliptic	Charleston Gray	4[ ]
<b>5.4 Fruit: ground color of skin</b> <b>(2130)</b>	yellow	Okan, Taiyô	1[ ]
	green	Fabiola, Sugar Baby, Sugar Belle	2[ ]

Characteristics	Example Varieties	Note
<b>5.5 Fruit: stripes</b> <u>(4030)</u>		
absent	Asahi, Yamato, Marsowszky, Sugar Baby	1[ ]
present	Kanro, Yellow Baby	9[ ]
<b>5.6 Fruit: width of stripes</b> <u>(4233)</u>		
very narrow	Napsugár	1[ ]
narrow	Festival Queen, Yamato Cream 2	3[ ]
medium		5[ ]
broad	Crimson Sweet, Kurobe, Sweet Heart	7[ ]
very broad	Sangria	9[ ]
<b>5.7 Fruit: main color of flesh</b> <u>(4636)</u>		
white	Yamato Cream 3	1[ ]
yellow	Yamato Cream 1, Napsugár	2[ ]
orange	Kahô	3[ ]
pink	Sadur	4[ ]
pinkish red	Bingo, Crimson Sweet	5[ ]
red	Asahi Yamato, Sugar Baby	6[ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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6. Similar varieties and differences from these varieties

*Please use the table, and space provided for comments, below 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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Fruit: width of stripes</i>	<i>narrow</i>	<i>medium</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 Special conditions for the examination of the variety

7.2.1 Are there any special conditions for growing the variety or conducting the examination?

Yes [ ] No [ ]

7.2.2 If yes, please give 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.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined.

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 or pesticide) Yes [ ] No [ ]  
(c) Tissue culture Yes [ ] No [ ]  
(d) Other factors Yes [ ] No [ ]

Please provide details of where you have indicated "yes":  
.....

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]