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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.

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

MELON

UPOV Code: CUCUM_MEL

Cucumis melo L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Cucumis melo</i> L.	Melon	Melon	Melone	Melón

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 *Cucumis melo* L.

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:

100 g or 2000 seeds.

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

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*

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

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.

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

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 20 plants, 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 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*

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 The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.2.3 For the assessment of uniformity of self-pollinated varieties, vegetatively propagated varieties and hybrid varieties, a population standard of 1 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 20 plants, 1 off-type is allowed.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be 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 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:

- (a) Inflorescence: sex expression (at full flowering) (characteristic 12)
- (b) Fruit: shape in longitudinal section (characteristic 28)
- (c) Fruit: ground color of skin (characteristic 29)
- (d) Fruit: warts (characteristic 38)
- (e) Fruit: grooves (characteristic 43)
- (f) Fruit: cork formation (characteristic 48)
- (g) Fruit: main color of flesh (characteristic 54)
- (h) Seed: length (characteristic 60)
- (i) Seed: color (characteristic 63)

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 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

MG, MS, VG: See Chapter 3.3

(a)-(e) 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.	VG	Seedling: length of hypocotyl	Plantule: longueur de l'hypocotyle	Keimpflanze: Länge des Hypokotyls	Plántula: longitud del hipocótilo		
QN	(a)	very short	très court	sehr kurz	muy corto	Golden Crispy	1
		short	court	kurz	corto	Arava, Clipper	3
		medium	moyen	mittel	medio	Doral, Futuro	5
		long	long	lang	largo	Bimbo, Ronda	7
		very long	très long	sehr lang	muy largo	Noy	9
2.	VG	Seedling: size of cotyledon	Plantule: taille du cotylédon	Keimpflanze: Größe der Keimblätter	Plántula: tamaño del cotiledón		
QN	(a)	very small	très petit	sehr klein	muy pequeño	Golden Crispy	1
		small	petit	klein	pequeño	Candy, Lunasol	3
		medium	moyen	mittel	medio	Futuro, Sancho	5
		large	grand	groß	grande	Bimbo, Nicolás	7
		very large	très grand	sehr groß	muy grande	Noy	9
3.	VG	Seedling: intensity of green color of cotyledon	Plantule: intensité de la couleur verte du cotylédon	Keimpflanze: Intensität der Grünfärbung der Keimblätter	Plántula: intensidad del color verde del cotiledón		
QN	(a)	light	clair	hell	claro	Bimbo, Lucas	3
		medium	moyen	mittel	medio	Candy, Piel de Sapo	5
		dark	foncé	dunkel	oscuro	Clipper, Lunasol	7
4.	VG	Leaf blade: size	Limbe: taille	Blattspreite: Größe	Limbo: tamaño		
QN	(b)	small	petit	klein	pequeño	Geaprince, Lunasol	3
		medium	moyen	mittel	medio	Candy, Total	5
		large	grand	groß	grande	Don, Sucrero	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
5.	VG	Leaf blade: intensity of green color	Limbe: intensité de la couleur verte	Blattspreite: Intensität der Grünfärbung	Limbo: intensidad del color verde		
QN	(b)	light	clair	hell	claro	Fimel, Yuma	3
		medium	moyen	mittel	medio	Doral, Galia	5
		dark	foncé	dunkel	oscuro	Gama, Gustal	7
6.	VG	Leaf blade: development of lobes	Limbe: développement des lobes	Blattspreite: Ausprägung der Lappen	Limbo: desarrollo de los lóbulos		
(+)							
QN	(b)	weak	faible	gering	débil	Boule d'or	3
		medium	moyen	mittel	medio	Piel de Sapo	5
		strong	fort	stark	fuerte	Galia	7
7.	VG	Leaf blade: length of terminal lobe	Limbe: longueur du lobe terminal	Blattspreite: Länge des Endlappens	Limbo: longitud del lóbulo terminal		
(+)							
QN	(b)	short	court	kurz	corto	Perlita	3
		medium	moyen	mittel	medio	Clipper, Gama	5
		long	long	lang	largo	Gustal, Primal	7
8.	VG	Leaf blade: dentation of margin	Limbe: dentelure du bord	Blattspreite: Randzählung	Limbo: dentado del margen		
QN	(b)	weak	faible	gering	débil	Clipper, Védtrantais	3
		medium	moyenne	mittel	medio	De Cavaillon espagnol, Piel de Sapo	5
		strong	forte	stark	fuerte	Boule d'or, Portoluz	7
9.	VG	Leaf blade: blistering	Limbe: cloûre	Blattspreite: Blasigkeit	Limbo: abullonado		
QN	(b)	weak	faible	gering	débil	Galia	3
		medium	moyenne	mittel	medio	Costa	5
		strong	forte	stark	fuerte	Haros	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10.	VG	Petiole: attitude	Pétiole: port	Blattstiel: Haltung	Pecíolo: porte		
QN	(b)	erect	dressé	aufrecht	erecto	Alfredo	1
		semi-erect	demi-dressé	halbaufrecht	semierecto	Peko	3
		horizontal	horizontal	waagerecht	horizontal	Creso	5
11.	VG/ MS	Petiole: length	Pétiole: longueur	Blattstiel: Länge	Pecíolo: longitud		
QN	(b)	short	court	kurz	corto	Costa	3
		medium	moyen	mittel	medio	Arava, Sancho	5
		long	long	lang	largo	Goldgen	7
12. (*)	VG	Inflorescence: sex expression (at full flowering)	Inflorescence: expression du sexe (en pleine floraison)	Blütenstand: Geschlechts- verteilung (bei Vollblüte)	Inflorescencia: expresión del sexo (en plena floración)		
QL		monoecious	monoïque	monözisch	monócico	Alpha, Categoría	1
		andromonoecious	andromonoïque	andromonözisch	andromonócico	Piel de Sapo	2
13. (+)	VG	Young fruit: hue of green color of skin	Jeune fruit: teinte de couleur verte de l'épiderme	Junge Frucht: Farbton der Grünfärbung der Schale	Fruto joven: tonalidad del color verde de la piel		
PQ	(c)	whitish green	vert blanchâtre	weißlichgrün	verde blanquecino	Geasol	1
		yellowish green	vert jaunâtre	gelblichgrün	verde amarillento	Fimel	2
		green	vert	grün	verde	Lucas	3
		greyish green	vert grisâtre	gräulichgrün	verde grisáceo	Spanglia	4

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
14.	VG	Young fruit: intensity of green color of skin	Jeune fruit: intensité de la couleur verte de l'épiderme	Junge Frucht: Intensität der Grünfärbung der Schale	Fruto joven: intensidad del color verde de la piel		
QN	(c)	very light	très clair	sehr hell	muy clara	Solarking	1
		light	clair	hell	clara	Fimel	3
		medium	moyen	mittel	media	Eros	5
		dark	foncé	dunkel	oscura	Galia	7
		very dark	très foncé	sehr dunkel	muy oscura	Edén	9
15.	VG	Young fruit: density of dots	Jeune fruit: densité des points	Junge Frucht: Dichte der Punkte	Fruto joven: densidad de los puntos		
QN	(c)	absent or very sparse	nulle ou très lâche	fehlend oder sehr locker	ausente o muy baja	Solarking	1
		sparse	lâche	locker	baja	Fimel	3
		medium	moyenne	mittel	media	Lucas	5
		dense	dense	dicht	densa	Arava	7
		very dense	très dense	sehr dicht	muy densa	Edén	9
16.	VG	Young fruit: size of dots	Jeune fruit: taille des points	Junge Frucht: Größe der Punkte	Fruto joven: tamaño de los puntos		
QN	(c)	small	petits	klein	pequeño	Lucas	3
		medium	moyens	mittel	medio	Arava	5
		large	grands	groß	grande	Spanglia	7
17.	VG	Young fruit: contrast of dot color/ground color	Jeune fruit: contraste couleur des points/couleur de fond	Junge Frucht: Kontrast Farbe der Punkte/Grundfarbe	Fruto joven: contraste del color de los puntos/color del fondo		
QN	(c)	weak	faible	gering	débil	Lucas	3
		medium	moyen	mittel	medio	Arava	5
		strong	fort	stark	fuerte	Total	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18.	VG	Young fruit: conspicuousness of groove coloring	Jeune fruit: netteté de la coloration du sillon	Junge Frucht: Deutlichkeit der Färbung der Furchen	Fruto joven: evidencia de conspicuidad de los surcos		
QN	(c)	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Solarking	1
		weak	faible	gering	débil	Geaprince, Total	3
		medium	moyenne	mittel	media	Gama	5
		strong	forte	stark	fuerte	Clipper, Galia	7
		very strong	très forte	sehr stark	muy fuerte	Nembo	9
19.	VG	Young fruit: intensity of groove coloring	Jeune fruit: intensité de la coloration du sillon	Junge Frucht: Intensität der Färbung der Furchen	Fruto joven: intensidad del color de los surcos		
QN	(c)	light	claire	hell	clara		3
		medium	moyenne	mittel	media	Gama, Topper	5
		dark	foncée	dunkel	oscura	Century, Drake	7
20.	VG/ MS	Young fruit: length of peduncle	Jeune fruit: longueur du pédoncule	Junge Frucht: Länge des Stiels	Fruto joven: longitud del pedúnculo		
QN	(c)	short	court	kurz	corto	Lince Haros	3
		medium	moyen	mittel	medio	Arava, Romeo	5
		long	long	lang	largo	Corín	7
21.	VG/ MS	Young fruit: thickness of peduncle 1 cm from fruit	Jeune fruit: grosueur du pédoncule à 1 cm du fruit	Junge Frucht: Dicke des Stiels 1 cm von der Ansatzstelle der Frucht	Fruto joven: grosor del pedúnculo 1 cm a partir del fruto		
QN	(c)	thin	fin	dünn	delgado	Solarking	3
		medium	moyen	mittel	medio	Geaprince, Védrantais	5
		thick	gros	dick	grueso	Charentais, Doral	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
22.	VG	Young fruit: extension of darker area around peduncle	Jeune fruit: taille de la zone plus foncée autour du pédoncule	Junge Frucht: Ausdehnung der dunkleren Zone um den Stiel	Fruto joven: extensión del área más oscura alrededor del pedúnculo		
QN	(c)	absent or very small	absente ou très petite	fehlend oder sehr klein	ausente o muy pequeña	Doral	1
		small	petite	klein	pequeña	Boule d'or	3
		medium	moyenne	mittel	media	Mirasol Geaprince	5
		large	large	groß	grande		7
23.	VG	Fruit: change of skin color from young fruit to maturity	Fruit: changement de couleur de l'épiderme du jeune fruit au fruit à maturité	Frucht: Änderung der Farbe der Schale von der jungen Frucht bis zur Reife	Fruto: cambio de color de la piel del fruto joven a la madurez		
(+)							
QN		early in fruit development	au début du développement du fruit	früh in der Fruchtentwicklung	a principios del desarrollo del fruto	Alpha, Charantais, Clipper	1
		late in fruit development	tardivement lors du développement du fruit	spät in der Fruchtentwicklung	a finales del desarrollo del fruto	Amarillo Oro, Galia	2
		very late in fruit development or no change	très tardivement lors du développement du fruit ou sans changement	sehr spät in der Fruchtentwicklung	muy al final del desarrollo del fruto o sin cambios	Futuro, Piel de Sapo	3
24.	VG/MS	Fruit: length	Fruit: longueur	Frucht: Länge	Fruto: longitud		
(*)							
QN	(d)	very short	très court	sehr kurz	muy corto	Doublon, Golden Crispy	1
		short	court	kurz	corto	Topper, Védreantais	3
		medium	moyen	mittel	medio	Marina, Spanglia	5
		long	long	lang	largo	Categoría, Toledo	7
		very long	très long	sehr lang	muy largo	Katsura Giant, Valdivia	9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
25. (*)	VG/ MS	Fruit: diameter	Fruit: diamètre	Frucht: Durchmesser	Fruto: diámetro	
QN	(d)	very narrow	très étroit	sehr klein	muy estrecho	Banana, Golden Crispy 1
		narrow	étroit	klein	estrecho	Alpha, Maestro 3
		medium	moyen	mittel	medio	Categoría, Galia 5
		broad	large	groß	ancho	Albino, Kinka 7
		very broad	très large	sehr groß	muy ancho	Noir des Carmes 9
26. (*)	VG/ MS	Fruit: ratio length/diameter	Fruit: rapport longueur/diamètre	Frucht: Verhältnis Länge/Durchmesser	Fruto: relación longitud/diámetro	
QN	(d)	very small	très petit	sehr klein	muy pequeña	Noir des Carmes 1
		very small to small	très petit à petit	sehr klein bis klein	muy pequeña a pequeña	Alpha, Arava 2
		small	petit	klein	pequeña	Buster, Supermarket 3
		small to medium	petit à moyen	klein bis mittel	pequeña a media	Aril, Edén 4
		medium	moyen	mittel	media	Doral, Tendral Negro 5
		medium to large	moyen à grand	mittel bis groß	media a grande	Sirocco, Verdol 6
		large	grand	groß	grande	Categoría, Futuro 7
		large to very large	grand à très grand	groß bis sehr groß	grande a muy grande	Iguana, Canador 8
		very large	très grand	sehr groß	muy grande	Banana 9
27. (*)(+)	VG	Fruit: position of maximum diameter	Fruit: localisation du diamètre maximal	Frucht: Position des maximalen Durchmessers	Fruto: posición del diámetro máximo	
QN	(d)	toward stem end	vers la base	zum Stielende hin	hacia la base del tallo	Piolín , Sapo de Oro 1
		at middle	au milieu	in der Mitte	en el medio	Piel de Sapo, Védrañtais 2
		toward blossom end	vers le sommet	zum Blütenende hin	hacia el ápice	Cganchi, Edén, Katsura Giant 3

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
28.	VG	Fruit: shape in longitudinal section	Fruit: forme en section longitudinale	Frucht: Form im Längsschnitt	Fruto: forma en sección longitudinal		
(*)							
(+)							
PQ	(d)	ovate	ovale	eiförmig	oval	De Cavaillon, Piolín	1
		medium elliptic	elliptique moyen	mittel elliptisch	elíptica media	Piel de Sapo	2
		broad elliptic	elliptique large	breit elliptisch	elíptica ancha	Corin, Sardo	3
		circular	circulaire	rund	circular	Alpha, Galia	4
		quadrangular	rectangulaire	quadratisch	cuadrangular	Zatta	5
		oblate	aplati	breitrund	oblata	Jívaro, Noir de Carmes	6
		obovate	obovale	verkehrt eiförmig	oboval	Cganchi	7
		elongated	allongé	länglich	alargada	Alficoz, Banana	8
29.	VG	Fruit: ground color of skin	Fruit: couleur de fond de l'épiderme	Frucht: Grundfarbe der Schale	Fruto: color de fondo de la piel		
(*)							
(+)							
PQ	(d)	white	blanc	weiß	blanco	Albino, Honey Dew	1
		yellow	jaune	gelb	amarillo	Amarillo-Canario, Edén, Galia, Passport, Solarking	2
		green	vert	grün	verde	Gohyang, Piel de Sapo	3
		grey	gris	grau	gris	Geaprince, Geamar, Romeo, Sirio, Supporter, Védreantais	4
30.	VG	Fruit: intensity of ground color of skin	Fruit: intensité de la couleur de fond de l'épiderme	Frucht: Intensität der Grundfarbe der Schale	Fruto: intensidad del color de fondo de la piel		
QN	(d)	light	clair	hell	claro		3
		medium	moyen	mittel	medio		5
		dark	foncé	dunkel	oscuro		7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
31.	VG	Fruit: hue of ground color of skin	Fruit: teinte de la couleur de fond de l'épiderme	Frucht: Grundfarbton der Schale	Fruto: tonalidad del color de fondo de la piel		
(+)							
PQ	(d)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Amarillo-Canario, Albino, Piel de Sapo, Sirio	1
		whitish	blanchâtre	weißlich	blanquecina	Romeo	2
		yellowish	jaunâtre	gelblich	amarillenta	Geaprince, Supporter	3
		orange	orange	orange	anaranjada	Edén	4
		ochre	ocre	ocker	ocre	Passport	5
		greenish	verdâtre	grünlich	verdosa	Geamar, Honey Dew, Solarking	6
		greyish	grisâtre	gräulich	grisácea	Gohyang	7
32.	VG	Fruit: density of dots	Fruit: densité des points	Frucht: Dichte der Punkte	Fruto: densidad de los puntos		
QN	(d)	absent or very sparse	nulle ou très lâche	fehlend oder sehr locker	ausente o muy baja	Charentais	1
		sparse	lâche	locker	baja		3
		medium	moyenne	mittel	media	Petit Gris de Rennes	5
		dense	forte	dicht	densa	Piel de Sapo	7
		very dense	très forte	sehr dicht	muy densa	Albino	9
33.	VG	Fruit: size of dots	Fruit: taille des points	Frucht: Größe der Punkte	Fruto: tamaño de los puntos		
QN	(d)	small	petits	klein	pequeño	Doral	3
		medium	moyens	mittel	medio	Toledo	5
		large	gros	groß	grande	Futuro	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
34.	VG	Fruit: color of dots	Fruit: couleur des points	Frucht: Farbe der Punkte	Fruto: color de los puntos		
PQ	(d)	white	blancs	weiß	blanco	Edén	1
		yellow	jaunes	gelb	amarillo	Piel de Sapo	2
		green	verts	grün	verde	Tendral Negro	3
35.	VG	Fruit: intensity of color of dots	Fruit: intensité de la couleur des points	Frucht: Intensität der Farbe der Punkte	Fruto: intensidad del color de los puntos		
QN	(d)	light	claire	hell	claro	Kinka, Mesol	3
		medium	moyenne	mittel	medio	Sapiel, Toledo	5
		dark	foncée	dunkel	oscuro	Soprano, Víctor	7
36.	VG	Fruit: density of patches	Fruit: densité des taches	Frucht: Dichte der Flecken	Fruto: densidad de las manchas		
QN	(d)	absent or very sparse	nulle ou très lâche	fehlend oder sehr locker	ausente o muy baja	Rochet	1
		sparse	lâche	locker	baja		3
		medium	moyenne	mittel	media	Braco	5
		dense	dense	dicht	densa	Piel de Sapo	7
		very dense	très dense	sehr dicht	muy densa	Oranje Ananas	9
37.	VG	Fruit: size of patches	Fruit: taille des taches	Frucht: Größe der Flecken	Fruto: tamaño de las manchas		
QN	(d)	small	petites	klein	pequeño	Baltasar	3
		medium	moyennes	mittel	medio	Sancho	5
		large	grosses	groß	grande	Taurus	7
38.	VG	Fruit: warts	Fruit: verrues	Frucht: Warzen	Fruto: verrugas		
QL	(d)	absent	absentes	fehlend	ausentes	Piel de Sapo	1
		present	présentes	vorhanden	presentes	Zatta	9

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
39. (*)	VG	Fruit: strength of attachment of peduncle at maturity	Fruit: fermeté de la fixation du pédoncule à maturité	Frucht: Festigkeit des Anhaftens des Stiels bei Reife	Fruto: firmeza de la adherencia del pedúnculo en la madurez		
QN	(d)	very weak	très faible	sehr gering	muy débil	Edén	1
		weak	faible	gering	débil	Arava, Maestro	3
		medium	moyenne	mittel	medio	Doral, Védreantais	5
		strong	forte	stark	fuerte	Clipper, Costa	7
		very strong	très forte	sehr stark	muy fuerte	Daimiel, Eloro	9
40. (*) (+)	VG	Fruit: shape of base	Fruit: forme de la base	Frucht: Form der Basis	Fruto: forma de la base		
PQ	(d)	pointed	pointue	spitz	puntiaguda	Edén	1
		rounded	arrondie	abgerundet	redondeada	Arava	2
		truncate	tronquée	abgeflacht	truncada	Zatta	3
41. (*) (+)	VG	Fruit: shape of apex	Fruit: forme du sommet	Frucht: Form der Spitze	Fruto: forma del ápice		
PQ	(d)	pointed	pointue	spitz	puntiagudo	Canador, Futuro	1
		rounded	arrondie	abgerundet	redondeado	Alpha, Honey Dew	2
		truncate	tronquée	abgeflacht	truncado	Noir des Carmes	3
42. (*)	VG	Fruit: size of pistil scar	Fruit: taille de l'attache pistillaire	Frucht: Größe der Griffelnarbe	Fruto: forma del tamaño de la cicatriz pistilar		
QN	(d)	small	petite	klein	pequeña	Alpha, Categoría	3
		medium	moyenne	mittel	media	Charentais, Eros, Verdol	5
		large	grande	groß	grande	Drake, Supermarket	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
43. (*)	VG Fruit: grooves	Fruit: sillons	Frucht: Furchen	Fruto: surcos		
QL (d)	absent or very weakly expressed	absents ou très faiblement exprimés	fehlend oder sehr schwach ausgeprägt	ausentes o muy débilmente definidos	Piel de Sapo, Arava	1
	weakly expressed	faiblement exprimés	schwach ausgeprägt	débilmente definidos	Total, Hobby	2
	strongly expressed	fortement exprimés	stark ausgeprägt	fuertemente definidos	Védrantais, Galia	3
44.	VG Fruit: width of grooves	Fruit: largeur des sillons	Frucht: Breite der Furchen	Fruto: anchura de los surcos		
QN (d)	narrow	étroits	schmal	estrecho	Auraprince	3
	medium	moyens	mittel	medios	Biga	5
	broad	larges	breit	anchos	Nembo, Sirio	7
45.	VG Fruit: depth of grooves	Fruit: profondeur des sillons	Frucht: Tiefe der Furchen	Fruto: profundidad de los surcos		
QN (d)	very shallow	très peu profonds	sehr flach	muy superficial	Amber	1
	shallow	peu profonds	flach	superficial	Galia	3
	medium	moyens	mittel	media	Alpha	5
	deep	profonds	tief	profunda	Panamá, Supermarket	7
	very deep	très profonds	sehr tief	muy profunda	Noir des Carmes, Sucrin de Tours	9
46.	VG Fruit: color of grooves	Fruit: couleur des sillons	Farbe der Furchen	Fruto: color de los surcos		
PQ (d)	white	blancs	weiß	blanco	Geumssaraki	1
	yellow	jaunes	gelb	amarillo	Futuro, Galia	2
	green	verts	grün	verde	Charentais	3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
47. (*)(+)	VG	Fruit: creasing of surface	Fruit: aspect ridé de la surface	Frucht: Faltenbildung der Oberfläche	Fruto: rugosidad de la superficie	
QN	(d)	absent or very weak	absent ou très faible	fehlend oder sehr gering	ausente o muy débil	Védrantais 1
		weak	faible	gering	débil	Melchor, Sirocco 3
		medium	moyen	mittel	medio	Costa, Piolín 5
		strong	fort	stark	fuerte	Tendral Negro 7
		very strong	très fort	sehr stark	muy fuerte	Balbey, Kirkagac 9
48. (*)	VG	Fruit: cork formation	Fruit: broderie	Frucht: Korkbildung	Fruto: formación suberosa	
QL	(d)	absent	absente	fehlend	ausente	Alpha 1
		present	présente	vorhanden	presente	Dalton 9
49. (*)	VG	Fruit: thickness of cork layer	Fruit: épaisseur de la broderie	Frucht: Dicke der Korkschicht	Fruto: grosor de la capa suberosa	
QN	(d)	very thin	très fine	sehr dünn	muy delgado	Amarillo Oro 1
		thin	fine	dünn	delgado	Riosol, Védrantais 3
		medium	moyenne	mittel	medio	Marina 5
		thick	épaisse	dick	grueso	Geamar, PMR 45 7
		very thick	très épaisse	sehr dick	muy grueso	Honey Rock, Perlita 9
50. (*)	VG	Fruit: pattern of cork formation	Fruit: répartition de la broderie	Frucht: Muster der Korkbildung	Fruto: distribución de la formación suberosa	
PQ	(d)	dots only	ponctuelle seulement	nur punktförmig	únicamente en puntos	Hermes, Védrantais 1
		dots and linear	ponctuelle et linéaire	punktförmig und linear	en puntos y lineal	Jívaro, Topper 2
		linear only	linéaire seulement	nur linear	únicamente lineal	Futuro, Riosol 3
		linear and netted	linéaire et en résille	linear und netzförmig	lineal y reticulada	Anatol, Chantal 4
		netted only	en résille seulement	nur netzförmig	únicamente reticulada	Galia, Perlita 5

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
51.	VG	Fruit: density of pattern of cork formation	Fruit: densité de la broderie	Frucht: Dichte des Musters der Korkbildung	Fruto: densidad de la distribución de la formación suberosa		
QN	(d)	very sparse	très lâche	sehr locker	muy baja	Alpha, Amarillo Oro	1
		sparse	lâche	locker	baja	Védrantais	3
		medium	moyenne	mittel	media	Regal, Vital	5
		dense	compacte	dicht	densa	Galia, Geamar	7
		very dense	très compacte	sehr dicht	muy densa	Honey Rock, Perlita	9
52.	VG	Fruit: rate of change of skin color from maturity to over maturity	Fruit: taux de changement de couleur de l'épiderme de la maturité à la surmaturité	Frucht: Änderung der Farbe der Schale von der Reife bis zur Überreife	Fruto: tasa de cambio de color de la piel de la madurez a la sobremadurez		
QN		absent or very slow	nul ou très lent	fehlend oder sehr langsam	ausente o muy lento	Clipper, Doral, Galia, Honey dew, Piel de Sapo	1
		slow	lent	langsam	lento	Goloso	3
		medium	moyen	mittel	medio	Futuro, Vendôme Dulcinea	5
		fast	rapide	schnell	rápido	Corin, Marina, Nembo	7
53.	VG	Fruit: width of flesh in longitudinal section (at position of maximum fruit diameter)	Fruit: épaisseur maximale de la chair en section longitudinale (à la position du diamètre du fruit maximal)	Frucht: Maximale Breite des Fleisches im Längsschnitt (in der Position des maximalen Fruchtdurchmessers)	Fruto: anchura máxima de la pulpa en sección longitudinal (en posición del diámetro del fruto máximo)		
QN	(d)	thin	mince	dünn	delgada	Gama	3
		medium	moyenne	mittel	media	Toledo	5
		thick	épaisse	dick	gruesa	Tito	7

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
54. (*)	VG	Fruit: main color of flesh	Fruit: couleur principale de la chair	Frucht: Hauptfarbe des Fleisches	Fruto: color principal de la pulpa		
PQ	(d)	white	blanche	weiß	blanco	Piel de Sapo	1
		greenish white	blanche verdâtre	grünlichweiß	blanco verdoso	Galia	2
		green	verte	grün	verde	Radical	3
		yellowish white	blanche jaunâtre	gelblichweiß	blanco amarillento	Guaraní	4
		orange	orange	orange	anaranjada	Védrantais	5
		reddish orange	orange rougeâtre	rötlichorange	naranja rojizo	Magenta	6
55.	VG	<u>Only varieties with main color of flesh: orange:</u> Fruit: intensity of orange color of flesh	<u>Seulement les variétés à couleur principale de la chair: orange:</u> Fruit: intensité de la couleur orange de la chair	<u>Nur Sorten mit Hauptfarbe des Fleisches: orange:</u> Frucht: Intensität der Orangefärbung des Fleisches	<u>Únicamente variedades con color principal de la pulpa anaranjada:</u> Fruto: intensidad del color anaranjado de la pulpa		
QN	(d)	light	clair	hell	claro	Fantasy, Oloroso	3
		medium	moyen	mittel	medio	Lunasol	5
		dark	foncé	dunkel	oscuro	Geamar	7
56.	VG	<u>Only varieties with main color of flesh: white; greenish white; green; yellowish white:</u> Fruit: secondary salmon coloring of flesh	<u>Seulement les variétés à couleur principale de la chair: blanche; blanche verdâtre; verte; blanche jaunâtre:</u> Fruit: coloration secondaire saumon de la chair	<u>Nur Sorten mit Hauptfarbe des Fleisches: weiß; grünlichweiß; grün; gelblichweiß:</u> Frucht: sekundäre Lachsfärbung des Fleisches	<u>Únicamente variedades con color principal de la pulpa: blanco; blanco verdoso; verde; blanco amarillento:</u> Fruto: coloración secundaria de la pulpa de color salmón		
QN	(d)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Gustal	1
		weak	faible	gering	débil	Floraprince, Toledo	3
		medium	moyenne	mittel	media	Arizo, Eloro	5
		strong	forte	stark	fuerte		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
57. VG (+)	Fruit: firmness of flesh	Fruit: fermeté de la chair	Frucht: Festigkeit des Fleisches	Fruto: firmeza de la pulpa		
QN (d)	soft	molle	weich	blanda	Galia, Marina	3
	medium	moyenne	mittel	media	Sancho, Supporter	5
	firm	ferme	fest	firme	Braco, Geamar	7
58. VG	<u>Only varieties with change of skin color from maturity to over maturity: Fruit at over maturity: hue of color of skin</u>	<u>Seulement les variétés à changement de couleur d'épiderme de la maturité à la surmaturité: Fruit à la surmaturité: teinte de couleur de l'épiderme</u>	<u>Nur Sorten mit Änderung der Farbe der Schale von der Reife bis zur Überreife: Frucht bei Überreife: Farbton der Schale</u>	<u>Únicamente variedades con cambio de color de la piel de la madurez a la sobremadurez: Fruto en la sobremadurez: tonalidad del color de la piel</u>		
PQ	yellow	jaune	gelb	amarillo	Futuro, Marina	1
	orangish yellow	jaune orangé	hell orange gelb	amarillo anaranjado	Drake, Gama	2
	creamish	crème	hell cremefarben	cremoso	Figaro, Vendôme	3
59. VG	<u>Only varieties with change of skin color from maturity to over maturity and with yellow or orangish yellow color of skin: Fruit at over maturity: intensity of yellow color of skin</u>	<u>Seulement les variétés à changement de couleur de l'épiderme de la maturité à la surmaturité et avec une couleur d'épiderme jaune ou jaune orangé: Fruit à la surmaturité: intensité de la couleur jaune de l'épiderme</u>	<u>Nur Sorten mit Änderung der Farbe der Schale von der Reife bis zur Überreife und mit gelber oder hell orange gelber Farbe der Schale: Frucht bei Überreife: Intensität der Gelbfärbung der Schale</u>	<u>Únicamente variedades con cambio de color de la piel de la madurez a la sobremadurez y con el color de la piel amarillo o anaranjado: Fruto en la sobremadurez: intensidad del color amarillo de la piel</u>		
QN	light	clair	hell	claro	Dulcinea	3
	medium	moyen	mittel	medio	Futuro	5
	dark	foncé	dunkel	oscuro	Trapío	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota	
60. (*)	MS	Seed: length	Graine: longueur	Samen: Länge	Semilla: longitud		
QN	(e)	very short	très courte	sehr kurz	muy corta	Geumssaraki, Golden Crispi	1
		short	courte	kurz	corta	Elario, Katsura Giant	3
		medium	moyenne	mittel	media	Arava, Sancho	5
		long	longue	lang	larga	Amarillo Oro, Toledo	7
		very long	très longue	sehr lang	muy larga	Albino	9
61.	MS	Seed: width	Graine: largeur	Samen: Breite	Semilla: anchura		
QN	(e)	very narrow	très étroite	sehr schmal	muy estrecha	Golden Crispi	1
		narrow	étroite	schmal	estrecha	Aurabel	3
		medium	moyenne	mittel	media	Arava, Sancho	5
		broad	large	breit	amplia	Amarillo Oro	7
		very broad	très large	sehr breit	muy amplia	Ronda	9
62. (+)	VG	Seed: shape	Graine: forme	Samen: Form	Semilla: forma		
QL	(e)	not pine-nut shape	pas en forme de pigne de pin	nicht zirbelnußförmig	no apiñonada	Toledo	1
		pine-nut shape	en forme de pigne de pin	zirbelnußförmig	apiñonada	Piel de Sapo	2
63. (*)	VG	Seed: color	Graine: couleur	Samen: Farbe	Semilla: color		
QL	(e)	whitish	blanchâtre	weißlich	blanquecino	Amarillo Oro s.b.	1
		cream yellow	crème	cremefarben gelb	crema amarillento	Galia, Piel de Sapo	2

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
64.	VG	<u>Only varieties with cream yellow seed color: Seed: intensity of color</u>	<u>Seulement les variétés à couleur de graine crème: Graine: intensité de la couleur</u>	<u>Nur Sorten mit cremefarben gelben Samen: Samen: Intensität der Farbe</u>	<u>Únicamente variedades con el color de semilla crema amarillento: Semilla: intensidad del color</u>	
QN	(e)	light	hell	clara	Goldgen	3
		medium	mittel	media	Galia	5
		dark	dunkel	oscura	Doral	7
65.	MG	Time of male flowering	Époque de floraison mâle	Zeitpunkt der männlichen Blüte	Época de floración masculina	
QN		early	früh	temprana	Clipper, Vital	3
		medium	mittel	media	Categoría	5
		late	spät	tardía	Nicolás, Rocín	7
66.	MG	Time of female flowering	Époque de floraison femelle	Zeitpunkt der weiblichen Blüte	Época de floración femenina	
QN		early	früh	temprana	Clipper	3
		medium	mittel	media	Braco, Categoría, Vital	5
		late	spät	tardía	Nicolás	7
67.	MG	Time of ripening	Époque de maturité	Zeitpunkt der Reife	Época de maduración	
QN		very early	sehr früh	muy temprana	Goldstar, Sun	1
		early	früh	temprana	Galia	3
		medium	mittel	media	Védrantais	5
		late	spät	tardía	Pinonet Piel de Sapo, Rochet	7
		very late	sehr spät	muy tardía	Clipper, Supporter, Tendral	9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
68. (*)(+)	MG Shelf life of fruit	Durée de conservation du fruit sur l'étalage	Haltbarkeitsdauer der Frucht	Conservación post cosecha del fruto		
QN	very short	très courte	sehr kurz	muy breve	Charentais	1
	short	courte	kurz	breve	Galia	3
	medium	moyenne	mittel	media	Clipper	5
	long	longue	lang	larga	Piel de Sapo	7
	very long	très longue	sehr lang	muy larga	Tendral Negro	9
69. (+)	VG Resistance to <i>Fusarium oxysporum</i> f. sp. <i>melonis</i>	Résistance à <i>Fusarium oxysporum</i> f. sp. <i>melonis</i>	Resistenz gegen <i>Fusarium oxysporum</i> f. sp. <i>melonis</i>	Resistencia al <i>Fusarium oxysporum</i> f. sp. <i>melonis</i>		
QL	-----	-----	-----	-----	-----	-----
69.1	Race 0	Pathotype 0	Pathotyp 0	Raza 0		
	absent	absente	fehlend	ausente	Jaune Canari 2	1
	present	présente	vorhanden	presente	Jador, Joker, Védrañtais	9
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69.2	Race 1	Pathotype 1	Pathotyp 1	Raza 1		
	absent	absente	fehlend	ausente	Jaune Canari 2, Védrañtais	1
	present	présente	vorhanden	presente	Jador, Joker	9
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69.3	Race 2	Pathotype 2	Pathotyp 2	Raza 2		
	absent	absente	fehlend	ausente	Jaune Canari 2, Joker	1
	present	présente	vorhanden	presente	Jador, Védrañtais	9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
69.4	Race 1-2	Pathotype 1-2	Pathotyp 1-2	Raza 1-2		
(+)						
	absent	absente	fehlend	ausente	Jaune Canari 2 Joker, Védrantais	1
	present	présente	vorhanden	presente	Jador	9
70.	VG	Resistance to	Résistance à	Resistenz gegen	Resistencia a	
(+)		<i>Sphaerotheca</i>	<i>Sphaerotheca</i>	<i>Sphaerotheca</i>	<i>Sphaerotheca</i>	
QN		<i>fuliginea</i>	<i>fuliginea</i>	<i>fuliginea</i>	<i>fuliginea</i>	
		(<i>Podosphaera</i>	(<i>Podosphaera</i>	(<i>Podosphaera</i>	(<i>Podosphaera</i>	
		<i>xanthii</i>) (Powdery	<i>xanthii</i>) (oïdium)	<i>xanthii</i> (Echter Mehltau)	<i>xanthii</i>) (Oidio)	
	-----	-----	-----	-----	-----	-----
70.1	Race 1	Pathotype 1	Pathotyp 1	Raza 1		
	susceptible	sensible	anfällig	susceptible	Alpha, Boneto, Delta, Jerac	1
	moderately resistant	moyennement résistant	mäßig resistant	moderadamente resistente	Escrito	2
	highly resistant	hautement résistant	hochresistent	altamente resistente	Cézanne, Anasta, Théo	3
	-----	-----	-----	-----	-----	-----
70.2	Race 2	Pathotype 2	Pathotyp 2	Raza 2		
	susceptible	sensible	anfällig	susceptible	Boneto, Galoubet	1
	moderately resistant	moyennement résistant	mäßig resistant	moderadamente resistente	Flores, Enzo, Escrito	2
	highly resistant	hautement résistant	hochresistent	altamente resistente	Anasta, Cézanne, Théo	3
	-----	-----	-----	-----	-----	-----

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
70.3	Race 5	Pathotype 5	Pathotyp 5	Raza 5		
	susceptible	sensible	anfällig	susceptible	Védrantais	1
	moderately resistant	moyennement résistant	mäßig resistent	moderadamente resistente	Enzo, Flores	2
	highly resistant	hautement résistant	hochresistent	altamente resistente	Gaetano, Lucas, Théo	3
71.	VG	Resistance to	Résistance à	Resistenz gegen	Resistencia a	
(+)	<i>Erysiphe cichoracearum</i> (Golovinomyces cichoracearum) Race 1 (Powdery mildew)	<i>Erysiphe cichoracearum</i> (Golovinomyces cichoracearum) Pathotype 1 (oïdium)	<i>Erysiphe cichoracearum</i> (Golovinomyces cichoracearum) Pathotyp 1 (Echter Mehltau)	<i>Erysiphe cichoracearum</i> (Golovinomyces cichoracearum) Raza 1 (Oidio)		
QN	susceptible	sensible	anfällig	susceptible	Bastion, Boneto	1
	moderately resistant	moyennement résistant	mäßig resistent	moderadamente resistente	Flores, Anasta	2
	highly resistant	hautement résistant	hochresistent	altamente resistente	Cézanne, Heliobel, Théo	3
72.	VG	Resistance to	Résistance à	Resistenz gegen	Resistencia a la	
(+)	colonization by <i>Aphis gossypii</i>	la colonisation par <i>Aphis gossypii</i>	Befall durch <i>Aphis gossypii</i>	colonización por <i>Aphis gossypii</i>		
QL	absent	absente	fehlend	ausente	Charentais	1
	present	présente	vorhanden	presente	AR, Margot, Top Mark	9
73.	VG	Resistance to	Résistance au virus	Resistenz gegen	Resistencia al virus	
(+)	Zucchini Yellow Mosaic Virus (ZYMV) Race F	de la mosaïque jaune de la courgette (ZYMV) Pathotype F	Zucchini-gelb-mosaikvirus (ZYMV), Pathotyp F	del mosaico amarillo del calabacín (ZYMV) Raza F		
QL	absent	absente	fehlend	ausente	Alpha, Boule d'Or, Cantor, Doublon	1
	present	présente	vorhanden	presente	Eloro, Hermes, Védrantais	9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
74. (+)	VG Resistance to Papaya Ring Spot Virus (PRSV)	Résistance au virus des taches annulaires du papayer	Resistenz gegen Papayaringfleckenvirus (PRSV)	Resistencia al virus de la mancha anular del papayo (PRSV)		
QL	-----	-----	-----	-----	-----	-----
74.1	Race GVA	Pathotype GVA	Pathotyp GVA	Raza GVA		
	absent	absente	fehlend	ausente	Védrantais	1
	present	présente	vorhanden	presente	WMRV 29, 72025	9
	-----	-----	-----	-----	-----	-----
74.2	Race E₂	Pathotype E₂	Pathotyp E₂	Raza E₂		
	absent	absente	fehlend	ausente	Védrantais, 72025	1
	present	présente	vorhanden	presente	WMRV 29	9
75. (+)	VG Resistance to Muskmelon Necrotic Spot Virus (MNSV) Race E₈	Résistance au virus de la criblure du melon (MNSV) Pathotype E₈	Resistenz gegen Netzmelonen-nekroseflecken-virus (MNSV), Pathotyp E₈	Resistencia al virus del cribado del melón (MNSV) Raza E₈		
QL	absent	absente	fehlend	ausente	Védrantais	1
	present	présente	vorhanden	presente	Primal, VA 435	9
76. (+)	VG Resistance to Cucumber Mosaic Virus (CMV)	Résistance au virus de la mosaïque du concombre (CMV)	Resistenz gegen Gurkenmosaikvirus (CMV)	Resistencia al virus del mosaico del pepino (CMV)		
QL	absent	absente	fehlend	ausente	Cézanne, Dalton	1
	present	présente	vorhanden	presente	Lunaduke	9

8. Explanations on the Table of Characteristics

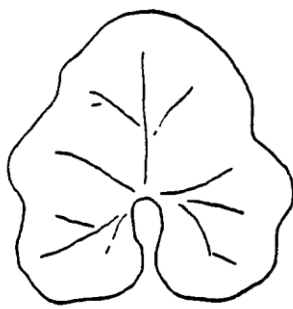
8.1 *Explanations covering several characteristics*

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

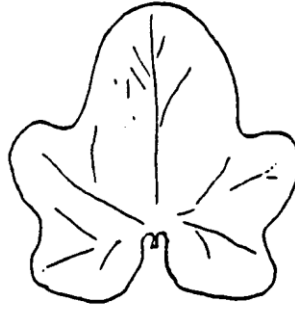
- (a) Seedling: All observations on the seedling should be made just before the development of the first true leaf.
- (b) Leaf blade: Unless otherwise indicated, all observations on the leaf blade, should be made on fully developed but not old leaves, preferably between the 5th and 8th node when the plant has at least 11 nodes.
- (c) Young fruit: All observations on the young fruit should be made on green, unripe fruits, before the color change. For most varieties this means when the fruit is half the final size. To facilitate the observation, it is recommended to harvest one young fruit per plant, if the number of fruits per plant makes that possible.
- (d) Fruit: Observations which should be made on ripened fruit. The color must not start to change to the over maturity color. When appropriate, for the flesh characteristics it is recommended to wait at least one week after the harvest before opening the fruits.
- (e) Seed: All observations on the seed should be made on fully developed and dry seeds, after washing and drying in the shade.

8.2 Explanations for individual characteristics

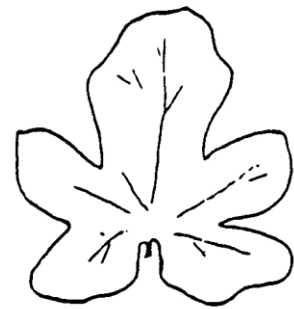
Ad. 6: Leaf blade: development of lobes



3
weak

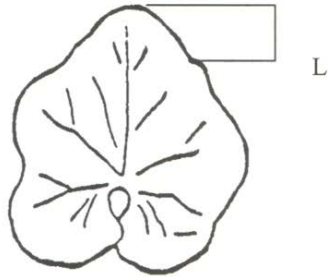


5
medium

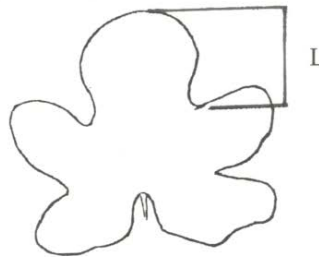


7
strong

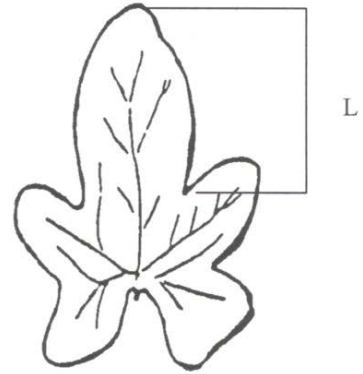
Ad. 7: Leaf blade: length of terminal lobe



3
short



5
medium



7
long

Ad. 13: Young fruit: hue of green color of skin

The basic color of the young fruit is green. There are two true hue levels “yellowish” and “green” depending on the proportion between red and blue components in the color, and two other hue levels “greyish” that is rather a low saturation of the green color and “whitish” that results from a very light intensity of the green color.

Ad. 23: Fruit: change of skin color from young fruit to maturity

Ad. 52: Fruit: Rate of change of skin color from maturity to over maturity

The melon fruit may have up to three different skin colors in the course of its development. The speed of evolution of the color depends on the type of variety, but within a type different speeds can also be observed. Please note that in cases where the color change is closely linked to maturity, the observation should be clear: either on the color change related to maturity (characteristic 23) or within mature fruits from mature to over mature (characteristic 53). The changing of fruit skin color can be described by using the following characteristics:

1. Stage 1: color of the young fruit (green color)
2. Change from Stage 1 to Stage 2 (Characteristics 23)
3. Stage 2: color at maturity
4. Change from Stage 2 to Stage 3 (Characteristic 53)
5. Stage 3: color at over maturity.

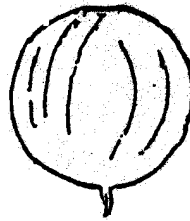
Some examples are given in the following table:

Variety	Stage 1: color of the young fruit	Change from Stage 1 to Stage 2 (Ch. 23)	Stage 2: color at maturity (Ch. 29)	Change from Stage 2 to Stage 3 (Ch. 53)	Stage 3: color at over maturity
Galia	green	late	yellow	absent	yellow
Amarillo Oro	green	late	yellow	absent	yellow
Doral	green	late	yellow	absent	yellow
Charentais	green	early	grey	fast	yellow
Alpha	green	early	grey	medium	yellow
Clipper	green	early	grey	absent	grey
Vendome	green	early	grey	medium	yellow
Corin	green	early	grey	fast	yellow
Nembo	green	early	grey	fast	yellow
Albino	green	late	white	absent	white
Honey Dew	green	late	white	absent	white
Dulcinea	green	late	white	medium	yellow
Marina	green	no-change	green	fast	yellow
Futuro	green	no change	green	medium	yellow
Goloso	green	no change	green	slow	yellow
Piel de Sapo	green	no change	green	absent	green

Ad. 27: Fruit: position of maximum diameter



1
toward stem end

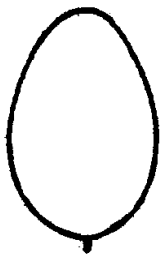


2
at middle

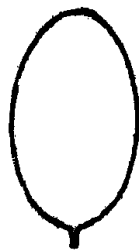


3
toward blossom end

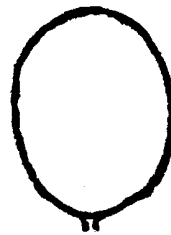
Ad. 28: Fruit: shape in longitudinal section



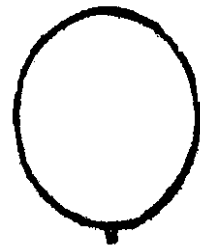
1
ovate



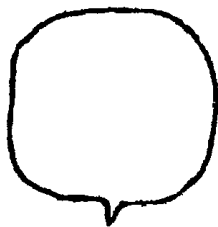
2
medium elliptic



3
broad elliptic



4
circular



5
quadrangular



6
oblate



7
obovate



8
elongated

Ad. 29: Fruit: ground color of skin

Ad. 31: Fruit: hue of ground color of skin

For example:

All the Galia type would be considered as yellow color. Hues ochre, orange, pure yellow or greenish can be considered in the group, but in a separate characteristic (31).

All the Charentais type would be considered as grey. Greenish, whitish, or yellowish hues (characteristic 31) can be used for distinctness, but are not recommended for grouping.

Ochre is pale brownish yellow.

The colors given below indicate the ground color of skin of the variety in question.

		Hue of ground color (characteristic 31)	
Example variety	Ground color (characteristic 29)	State	Note
Amarillo-Canario	yellow	absent or very weak	1
Albino	white	absent or very weak	1
Piel de Sapo	green	absent or very weak	1
Sirio	grey	absent or very weak	1
Romeo	grey	whitish	2
Geaprince	grey	yellowish	3
Supporter	grey	yellowish	3
Edén	yellow	orange	4
Passport	yellow	ocre	5
Geamar	grey	greenish	6
Honey Dew	white	greenish	6
Solarking	yellow	greenish	6
Gohyang	green	greyish	7

Ad. 40: Fruit: shape of base



1
pointed



2
rounded



3
truncate

Ad. 41: Fruit shape of apex



1
pointed

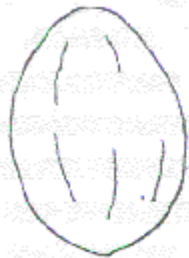


2
rounded



3
truncate

Ad. 47: Fruit: creasing of surface



3
weak



5
medium

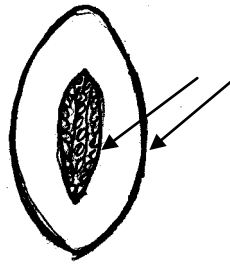


7
strong

Ad. 52: Fruit: Rate of change of skin color from maturity to over maturity

See Ad. 23, Ad. 52

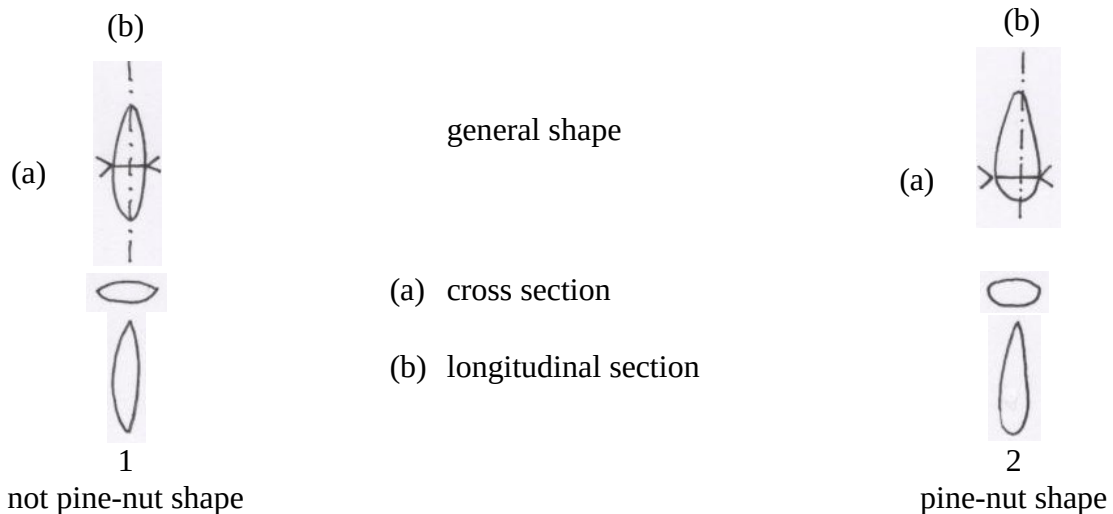
Ad. 53: Fruit: width of flesh in longitudinal section (at position of maximum fruit diameter)



Ad. 57: Firmness of flesh

Firmness of the flesh should be assessed in the central third of the fruit. The assessment can be made by pressing the flesh with the blunt end of a pencil, or similar instrument, midway between the skin and the mucilage.

Ad. 62: Seed: shape



Pine-nut shape seed (Piñonet) is controlled by a recessive characteristic with simple genetic regulation. Seed with pine-nut shape resembles the shape of a pine nut and has the following features:

- the hilum end is slightly more pointed, with very small wings;
- the apical end has a tendency to be more rounded;
- in cross section the seed has a tendency to be more symmetrically elliptical;
- the surface is not covered with arista.

Ad. 68: Shelf life of fruit

Shelf life is the time that the fruit remains firm in storage.

Five fruits per plot are stored in boxes in single layers. The boxes can be stored one on top on another if air can circulate between them. The storage area does not need to be climatically controlled, but must have naturally good conditions for storing fruits.

Observations are made at regular intervals of 3 to 4 days, noting the firmness of fruits, taking care not to damage them, and removing those which are damaged or rotten. The observation is to determine when the fruits become soft, i.e. when the firmness of the fruit becomes equal or lower than Note 3 “soft” in characteristic 57.

Ads. 69.1 - 69.3: Resistance to *Fusarium oxysporum* f. sp. *melonis*, races 0, 1 and 2

Maintenance of races

Type of medium:	on agar medium at 22 to 25°C
Special conditions:	transplantation of races each month

Execution of test

Growth stage of plants:	cotyledons expanded
Temperature:	24°C during day, 18°C during night
Light:	10 - 12 hours per day
Growing method:	Petri dishes in climatic chambers
Method of inoculation:	soaking of the root system in a suspension of liquid medium of fungus
Duration of test	
- from sowing to inoculation:	10-15 days
- from inoculation to reading:	20 days, death of susceptible plants
Number of plants tested:	30 plants
Remarks:	plants raised and transplanted in sterilized sand, irrigation with nutrient solution

Ad. 69.4: Resistance to *Fusarium oxysporum* f. sp. *melonis*, race 1-2

Maintenance of races

Type of medium:	on agar medium at 22 to 25°C
Special conditions:	transplantation of races each month

Execution of test

Growth stage of plants:	cotyledons expanded
Temperature:	24°C during day, 18°C during night
Light:	12 hours per day
Growing method:	dishes in climatic chambers

Method of inoculation:	absorption of 700 ml of a very diluted (30 to 50 times) fungus culture
Duration of test	
- from sowing to inoculation:	10 to 15 days
- from inoculation to reading:	3 weeks, until the death of the susceptible control
Number of plants tested:	30 plants
Remarks:	a moderately aggressive type of race 1-2 should be used as this is likely to show the difference between the presence and absence of resistance most clearly.

Ads. 70.1 to 70.3: Resistance to *Sphaerotheca fuliginea* (*Podosphaera xanthii*), races 1, 2 and 5

Ad. 71: Resistance to *Erysiphe cichoracearum* (*Golovinomyces cichoracearum*), race 1

1. Inoculum

Production of cotyledons

Cotyledons to be inoculated and tested: sow the seed in disinfected peat inside a closed mini glasshouse. When the cotyledons have expanded, remove them from the plant.

Desinfect the cotyledons by soaking them for 3 minutes in a mercuric chloride solution (0.05%). Rinse them twice with sterilized water. Dry the cotyledons with sterile paper towel, then place them in Petri dishes with the following medium:

sucrose	10 g
mannitol	20 g
agar	5 g
distilled water	1 liter

Propagation of the strains

Scatter conidia on the cotyledons and blow them. Incube the inoculated cotyledons in Petri dishes at 23°C during 14 hours in the light and at 18°C during 10 hours in the dark.

9 to 11 days after the inoculation, the cotyledons will be covered with spores and can be used as an inoculum.

Maintenance of races

Type of medium: on inoculated cotyledons

Special conditions: 17°C, under very low light intensity. Maximum storage time is 1 to 1.5 months, after the inoculation.

2. Execution of Test

Inoculation on leaf disks (to be used as routine method)

Leaf disks, 2 cm in diameter, are taken from young plants and placed in polystyrene boxes (180 x 125 mm, 54 leaf disks per box) on a medium (mannitol 40g/l, benzamidazole 30 mg/l, agar 4 g/l). The leaf disks are inoculated by placing the boxes at the base of an inoculation tower (height: 1.00 m, diameter 0.25 m).

A cotyledon, already covered with inoculum, is placed on the top of the tower and blown with a Pasteur pipette to detach spores. Wait 1 to 2 minutes so that the conidia fall down through the tower onto the leaf discs. The leaf disks are kept for 24 hours in the dark by covering the boxes with a black polyethylene sheet. The boxes are then placed in a climatised chamber (20°C in the light for 14 hours; 24°C in the dark, for 10 hours per day).

Duration of test/Number of plants

- from inoculation to reading: 10 days
- number of plants tested: 5

Scoring

Strongly resistant varieties (Note 3)

- 0 no development of the fungi
- 1 isolated colonies (less than 10% of the disk surface)

*Moderately resistant varieties (especially for *Erysiphe cichoracearum* (*Golovinomyces cichoracearum*)) (Note 2)*

- 2 isolated colonies (more than 10 % of the disk surface)
- 3 all the disk surface is covered with weak sporulation

Susceptible varieties (Note 1)

- 4 sporulation on all the disk surface
- 5 intense sporulation

Inoculation on young plants (to be used as a complementary method to the disk method, if necessary)

Take spores from a cotyledon already covered with conidia and deposit them on a leaf taken from a young plant. You can also proceed by blowing the spores from a cotyledon by the method mentioned above.

Scoring

Strongly resistant varieties (Note 3)

- 0 no development of the fungi
- 1 isolated colonies (less than 10% of the leaves)

*Moderately resistant varieties (especially for *Erysiphe cichoracearum* (*Golovinomyces cichoracearum*)) (Note 2)*

- 3 isolated colonies (more than 10% of the leaves)
- 5 weak sporulation

Susceptible varieties (Note 1)

- 7 medium sporulation
- 9 intense sporulation

3. Host differentials

	<i>Sphaerotheca fuliginea</i> (<i>Podosphaera xanthii</i>)					<i>Erysiphe</i> <i>cichoracearum</i> (<i>Golovinomyces</i> <i>cichoracearum</i>)	
	race 0	race 1	race 2	race 4	race 5	race 0	race 1
Iran H	S	S	S	S	S	S	S
Védrantais	R	S	S	S	S	R	S
PMR 45	R	R	S	S	S	R	S
WMR 29	R	R	R	S	S	R	S
Edisto 47	R	R	R	R	S	R	R
MR-1, PI 124112	R	R	R	R	R	R	R
PMR 5							
Nantais Oblong	R	S	S	S	S	R	R

S: susceptible (high sporulation)

R: resistant (low sporulation)

Ad. 72: Resistance to colonization by *Aphis gossypii*

Maintenance of strain

Maintenance and multiplication:

Special conditions:

on susceptible variety (Védrantais)

low aphid density to avoid having too many winged types. "Synchronous"-type breeding in order to have only aphids of the same age and, therefore, at the same growing stage on a plant

Conduct of the test

Plant stage:

Temperature:

Light:

Planting:

1st leaf measuring 2-3 cm

21°C

16 hours per day

plants sown in sand, pricked out at cotyledon stage in compost-filled pots

Manner of inoculation:

deposit of ten adult wingless aphid per plant

Duration of test:

- from sowing to inoculation:

15-18 days

- from inoculation to reading:

one day

Number of plants tested:

30

Recording:

- Resistance present = less than 7 adult aphids per plant; eggs rare.

- Resistance absent = 9 or 10 adult aphids per plant; eggs frequent.

- Record number of aphids per plant, 24 hours after inoculation.

Ad. 73: Resistance to Zucchini Yellow Mosaic Virus (ZYMV), race F

A. INOCULUM

Maintenance of strain

Maintenance:	5°C and kept dry using anhydrous calcium chloride
Special conditions:	pre-multiplication of the virus on non-wilting variety (Védraçais) prior to testing

B. INOCULATION AND INCUBATION

Conduct of the test

Plant stage:	1st emergent leaf
Temperature:	25°C during day, 18°C during night
Light:	12 hours per day
Manner of inoculation:	mechanical inoculation by rubbing of cotyledons with inoculum
Duration of test:	
- from sowing to inoculation:	15 days
- from inoculation to reading:	15 days
Number of plants tested:	30

C. SYMPTOMS AND OBSERVATIONS

Reading difficulty:	- heterozygotes (Fn/Fn+) wither and die more slowly than homozygotes (Fn/Fn) - use the F pathotype of ZYMV
Example varieties:	
Védraçais (Fn+/Fn+):	mosaic (resistance present)
Cantor (Fn/Fn+):	slower necrosis with wilting (resistance absent)
Doublon (Fn/Fn):	necrosis with wilting (resistance absent)

Ad. 74: Resistance to Papaya Ring Spot Virus (PRSV), race GVA and race E₂

A. INOCULUM

Maintenance of strain

Maintenance:	5°C and kept dry using anhydrous calcium chloride
Special conditions:	pre-multiplication of the virus on susceptible variety (Védraçais) prior to testing

B. INOCULATION AND INCUBATION

Conduct of the test

Plant stage: 1st emergent leaf
 Temperature: 25°C during day, 18°C during night
 Light: 12 hours per day
 Manner of inoculation: mechanical inoculation by rubbing cotyledons with inoculum
 Duration of test:
 - from sowing to inoculation: 15 days
 - from inoculation to reading: 15-20 days
 Number of plants tested: 30

C. SYMPTOMS AND OBSERVATIONS

Identification of two strains of the PRSV virus and of the two alleles concerned:

Genotypes/Strains	GVA strain	E2 strain
Védrantais (Prsv ⁺)	Mosaic (vein-clearing) = resistance absent	Mosaic (vein-clearing) = resistance absent
72025 (Prsv ²)	- No systemic symptoms - Local necrotic lesions on cotyledons (irregular) = resistance present	- Apical necrosis = Necrosis of plant instead of local lesions: resistance absent
WMRV 29 (Prsv ¹)	- No systemic symptoms - Occasional local necrotic lesions on cotyledons = resistance present	- No systemic symptoms - Occasional local necrotic lesions on cotyledons = resistance present

Ad. 75: Resistance to Muskmelon Necrosis Spot Virus (MNSV), race E_g

A. INOCULUM

Maintenance of strain

Maintenance: 5°C and kept dry using anhydrous calcium chloride
 Special conditions: pre-multiplication on susceptible variety (Védrantais) prior to test

B. INOCULATION AND INCUBATION

Conduct of the test

Plant stage: 1st emergent leaf
 Temperature: 25°C during day, 18°C during night
 Light: 12 hours per day

Manner of inoculation: mechanical inoculation by rubbing of cotyledons with inoculum

Duration of test:

- from sowing to inoculation: 15 days

- from inoculation to reading: 8 days

Number of plants tested: 30

C. SYMPTOMS AND OBSERVATIONS

Susceptible plants: necrotic lesions on the inoculated organs (cotyledons)

Resistant plants: no lesions

Ad. 76: Resistance to Cucumber Mosaic Virus (CMV)

A. INOCULUM

1. Crushed solution

Phosphate disodic (Na_2HPO_4 , 12 H_2O) (0,03M):	1,075 g
Diéthylthiocarbamate of sodium (= DIECA):	0,2 g
Distilled water:	qsp 100 ml

The phosphate disodic solution can be stored in a refrigerator. Once the DIECA is added, the solution should be used within the next two hours.

2. Crushing the leaves

The source of the inoculum comes from crushing either the fresh leaves, or leaves desiccated in anhydrous calcium chloride (CaCl_2), in a cold mortar.

Crush 1 gram of leaves with 4 ml of phosphate disodic solution at 5°C. Add active carbon (0,5 g) and carborendum (0,4 g) for each 1 gram of leaves. After crushing, put the mortar on a bed of ice.

Before using leaves dried with CaCl_2 to inoculate a plant test, do a multiplication of the inoculum on some 10 susceptible plants which would be used as inoculum.

3. Strains maintenance

CMV can be stored for several years by desiccation with anhydrous CaCl_2 . Leaves showing mosaic symptoms should be chopped finely with a razor blade and placed in cups. Put a layer of anhydrous calcium chloride (0,5 cm) in a plastic box and cover it with filter paper. Place the cups on this layer. Close the box well with adhesive tape, and then place it in a tightly closed plastic bag. Store it in a refrigerator at 5°C.

B. INOCULATION AND INCUBATION

Cotyledons or young leaves should be inoculated by rubbing them with a latex-protected finger. After a few minutes, rinse the cotyledons with running water. Place the plants for incubation in a growth chamber (generally at 18°C at night and 25°C in the day, with 12 to 14 hours of daylight).

C. SYMPTOMS AND OBSERVATIONS

The “common” strains of CMV bring out mosaic symptoms on susceptible plants one week after inoculation. Resistant plants show no symptoms.

Remarks:

When light intensity and daylight are not sufficient (winter period), resistant plants (in particular PI 161375) may present chlorotic lesions on the first leaf.

Strains:

Use “common” strains (as T1, P9) rather than “song” strains (14, T2).

		CMV common strains (T1, P9)	CMV song strains (14, T2)
Susceptible	Védrantais	mosaic	mosaic
Resistant	PI 161375	no symptoms	mosaic, chlorotic lesions
	Virgos		

P9 brings out “aucuba” mosaic on susceptible varieties

P9 is less aggressive than T1

It is preferable to use Virgos rather than PI 161375 (lower germination, weaker growth).

Observations, notes:

The genetic resistance is polygenic. Use a notation with classes. It is preferable to use the two strains P9 and T1 to have a better evaluation of the resistance.

High resistance confers resistance on all common strains. Some genotypes may present a resistance to P9 (no symptoms), and a slight susceptibility to T1 (slight mosaic).

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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	Cucumis melo L.	
1.2 Common Name	Melon	
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) totally unknown cross []

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

4.1.3 Other []
(please provide details)

4.2 Method of propagating the variety

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).			
Characteristics	Example Varieties	Note	
5.1 Inflorescence: sex expression (at full flowering) (12)			
monoecious	Alpha, Categoría	1[]	
andromonoecious	Piel de Sapo	2[]	
5.2 Fruit: shape in longitudinal section (28)			
ovate	De Cavaillon, Piolín	1[]	
medium elliptic	Piel de Sapo	2[]	
broad elliptic	Corin, Sardo	3[]	
circular	Alpha, Galia	4[]	
quadrangular	Zatta	5[]	
oblate	Jívaro, Noir de Carmes	6[]	
obovate	Cganchi	7[]	
elongated	Alficoz, Banana	8[]	
5.3 Fruit: ground color of skin (29)			
white	Albino, Honey Dew	1[]	
yellow	Amarillo-Canario, Edén, Galia, Passport, Solarking	2[]	
green	Gohyang, Piel de Sapo	3[]	
grey	Geaprince, Geamar, Romeo, Sirio, Supporter, Védtrantais	4[]	

	Characteristics	Example Varieties	Note
5.4 (36)	Fruit: density of patches		
	absent or very sparse	Rochet	1[]
	sparse		3[]
	medium	Braco	5[]
	dense	Piel de Sapo	7[]
	very dense	Oranje Ananas	9[]
5.5 (38)	Fruit: warts		
	absent	Piel de Sapo	1[]
	present	Zatta	9[]
5.6 (43)	Fruit: grooves		
	absent or very weakly expressed	Piel de Sapo, Arava	1[]
	weakly expressed	Total, Hobby	2[]
	strongly expressed	Védrantais, Galia	3[]
5.7 (48)	Fruit: cork formation		
	absent	Alpha	1[]
	present	Dalton	9[]
5.8 (50)	Fruit: pattern of cork formation		
	dots only	Hermes, Védrantais	1[]
	dots and linear	Jivaro, Topper	2[]
	linear only	Futuro, Riosol	3[]
	linear and netted	Anatol, Chantal	4[]
	netted only	Galia, Perlita	5[]

	Characteristics	Example Varieties	Note
5.9 (51)	Fruit: density of pattern of cork formation		
	very sparse	Alpha, Amarillo Oro	1[]
	sparse	Védrantais	3[]
	medium	Regal, Vital	5[]
	dense	Galia, Geamar	7[]
	very dense	Honey Rock, Perlita	9[]
5.10 (54)	Fruit: main color of flesh		
	white	Piel de Sapo	1[]
	greenish white	Galia	2[]
	green	Radical	3[]
	yellowish white	Guaraní	4[]
	orange	Védrantais	5[]
	reddish orange	Magenta	6[]
5.11 (60)	Seed: length		
	very short	Geumssaraki, Golden Crispi	1[]
	short	Elario, Katsura Giant	3[]
	medium	Arava, Sancho	5[]
	long	Amarillo Oro, Toledo	7[]
	very long	Albino	9[]
5.12 (63)	Seed: color		
	whitish	Amarillo Oro s.b.	1[]
	cream yellow	Galia, Piel de Sapo	2[]
	Characteristics	Example Varieties	Note
5.13 (68)	Shelf life of fruit		
	very short	Charentais	1[]
	short	Galia	3[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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medium	Clipper	5[]
long	Piel de Sapo	7[]
very long	Tendral Negro	9[]

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>Density of pattern of cork formation</i>	<i>dense</i>	<i>medium</i>

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Comments:

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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 Yes ☐ No ☐ 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 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”.

.....

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

Applicant's name			
Signature			

[End of document]