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Prunus armeniaca L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from South Africa
to be considered by the
Technical Working Party for Fruit Crops
at its forty-seventh session, to be held in Angers, France,
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Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Prunus armeniaca</i> L., <i>Armeniaca vulgaris</i> Lam.	Apicot	Abricotier	Aprikose, Marille	Albaricoquero, Chabacano

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.

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Prunus armeniaca* L.

For the examination of hybrids involving *Prunus armeniaca* L. guidance is provided in document TGP/13 "Guidance for New Types and Species".

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 one-year-old grafts, budsticks or dormant shoots for grafting.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:
- (a) varieties resulting from crossings
5 trees (one-year-old grafts) or
5 budsticks or
 - (b) varieties resulting from mutations
10 trees (one-year-old grafts) or
10 budsticks

The rootstock to be used is 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*

- 3.1.1 The minimum duration of tests should normally be two independent growing cycles.
- 3.1.2 The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles.
- 3.1.3 In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles.
- 3.1.4 The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.4 *Test Design*

- 3.4.1 Each test should be designed to result in a total of at least 5 plants.
- 3.4.2 In the case for mutations 9 plants should be observed.

3.5 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

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

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of plants or parts of plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 5 plants or parts of plants taken from each of 5 plants and any other observations made on all plants in the test, disregarding any off-type plants.

In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 3.

4.1.5 Method of Observation

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

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

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

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

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

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

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

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

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

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

4.2 *Uniformity*

- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 5 plants, 0 off-types are allowed.
- 4.2.3 In the case of a sample size of 10 plants one off-type is allowed.

4.3 *Stability*

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial
- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
 - (a) Fruit: size (characteristic 29)
 - (b) Fruit: ground color of skin (characteristic 46)
 - (c) Fruit: relative area of over color (characteristic 47)
 - (d) Fruit: color of flesh (characteristic 51)
 - (e) Time of beginning of flowering (characteristic 58)
 - (f) Time of beginning of fruit ripening (characteristic 59)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

<i>State</i>	<i>Note</i>
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

<i>State</i>	<i>Note</i>
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 Example Varieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 Legend

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7	
		Name of characteristics in English	Nom du caractère en français	Name des Merkmals auf Deutsch	Nombre del carácter en español		
		states of expression	types d'expression	Ausprägungsstufen	tipos de expresión		

- 1 Characteristic number
- 2 (*) Asterisked characteristic – see Chapter 6.1.2
- 3 Type of expression
 - QL Qualitative characteristic – see Chapter 6.3
 - QN Quantitative characteristic – see Chapter 6.3
 - PQ Pseudo-qualitative characteristic – see Chapter 6.3
- 4 Method of observation (and type of plot, if applicable)
 - MG, MS, VG, VS – see Chapter 4.1.5
- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.2
- 6 (a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Growth stage key See Explanations on the Table of Characteristics in Chapter 8

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

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	QN	MG	(+)	(a)	a			
	Tree: vigor							
	very weak						Sub-zero	1
	weak						Ninfa, Polonais, Rustic	3
	medium						Bergeron, Canino, Peeka, Rouge du Roussillon	5
	strong						Earle Orange, Magyar kajszi, Palsteyn, Pisana, Portici	7
	very strong						Monaco Bello, Moniqué, Solitaire, Viceroy	9
2.	PQ	VG	(+)	(a)	a			
	Tree: habit							
	fastigate						Japan's Early	1
	upright						Harcot, Primando, Reale d'Imola	2
	upright to spreading						Ceglédi óriás, Paz, Proimo Tyrinthos, Veecot	3
	spreading						Blenheim, Canino, Grandir, Hargrand, Magyar kajszi	4
	drooping						Palsteyn, Pisana, Polonais, Vesna	5
	weeping							6
3.	QN	VG	(+)	(a)	a			
	Tree: degree of branching							
	weak						Earle Orange, Roxana	3
	medium						Bergeron, Magyar kajszi, Roxanne, San Castrese	5
	strong						Harlayne, Prevete, Roxy, Veecot	7
4. (*)	QN	VG		(a)	a			
	Tree: distribution of flower buds							
	predominantly on spurs						Earle Orange, Nugget, Roxy, Royal Rousillon, Sun Glo	1
	equally on spurs and on one-year-old shoots						Bergeron, Bulida, Canino, San Castrese, Veecot	2
	predominantly on one-year-old shoots						Amal, Ouardi, Rosa, Roxana	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5. (*)	QN	VG					
	Young shoot: anthocyanin coloration of apex (during rapid growth)						
	weak					Blenheim, Hargrand, Paz, Perla, Samarkandskij rannij	3
	medium					Cape Bebeco, Polonais, San Castrese, Sun Glo	5
	strong					Ceglédi bíbor, Harcot, Ladisun, Ohaicos, Ravival, Roxana	7
6.	PQ	VG	(+)	(a)	a		
	One-year-old shoot: color on sunny side						
	yellow brown					Cape Bebeco, Grandir	1
	red brown					Palsteyn, Polonais, Royal, Veecot	2
	purple brown					Blenheim, Harcot	3
7.	QN	VG		(a)	a		
	One-year-old shoot: size of bud support						
	small					Canino, Cape Bebeco, Harcot, Vitillo	1
	medium					Hargrand, Magyar kajsz, Palsteyn, Portici, Tri Gems	2
	large					4546, Ceglédi arany, Himidi, Roxana	3
8.	QN	MS/VG		(b)	b		
	Leaf blade: length						
	short					Bulida, Early Biady, Perla, Samarkandskij rannij	3
	medium					Canino, Portici, Rouge du Roussillon, Veecot	5
	long					A. Vecchioni, Calirose, Ceglédi arany, Moniquí, Roxana	7

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9.	QN	MS/VG	(b)	b			
	Leaf blade: width						
	narrow					Ceglédi bíbor, Monaco Bello, Rouget de Sernhac, Veecot	3
	medium					Canino, Cape Bebeco, Harcot, Vitillo	5
	broad					Ceglédi piroska, Moniquí, Pisana	7
10. (*)	QN	MG/VG	(b)	b			
	Leaf blade: ratio length/width						
	very small					Canino, Portici	1
	small					Cafona, Hargrand, Supergold	3
	medium					Harcot, Rouget de Sernhac, Rustic, San Castrese	5
	large					A. Vecchioni, Big Cot, Ceglédi bíbor	7
	very large					Calirose, Colorado, Noemi, Super Seven	9
11.	QN	VG	(b)	b			
	Leaf blade: intensity of green color of upper side						
	light					Roxy, San Castrese, Veecot, Velasquez	3
	medium					Canino, Ceglédi óriás, Flaming Gold, Grandir, Harcot	5
	dark					A. Vecchioni, Stark Early Orange	7
	very dark					Ninja	9
12.	PQ	VG	(+)	(b)	b		
	Leaf blade: shape of base						
	acute					Ceglédi bíbor, Rouget de Sernhac, San Francesco	1
	obtuse					Bhart, Calirose, Magyar kajsi, Portici	2
	truncate					Bergeron, Blenheim, Canino, Perla	3
	cordate					Bulida, Monabri, Moniquí	4

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13.	PQ	VG	(+)	(b)	b			
	Leaf blade: angle of apex (excluding tip)							
	acute						San Castrese	1
	right-angled						Bulida, Canino, Ceglédi óriás	2
	moderately obtuse						Bergeron, Farclo, Polonais, Portici	3
	strongly obtuse						Hargrand, Moniquí	4
14.	QN	VG		(b)	b			
	Leaf blade: length of tip							
	absent or very short						Alpha	1
	short						Amber Gold, Bhart, Harmat, Moniquí	3
	medium						Magyar kajszí, Roxy	5
	long						Calirose, Fina, Ivonne Liverani, Roxana	7
15.	PQ	VG	(+)	(b)	b			
	Leaf blade: incisions of margin							
	crenate						Canino, Royal Rousillon, San Castrese, Verdun	1
	bicrenate						Bhart, Ninfa	2
	bidentate						Calicot	3
	serrate						Calirose, Vitillo	4
	biserrate						Farius, Himidi, Rakovszky, Roxana, San Francesco, Suapriseven	5
16.	QN	VG		(b)	b			
	Leaf blade: undulation of margin							
	weak						Harcot, Palsteyn, Portici	3
	medium						Blenheim, Cape Bebeco, Nonno, Roxana	5
	strong						Piet Cillié, Polonais, San Francesco	7

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.	QN	VG	(+)	(b)	b			
	Leaf blade: profile in cross section							
	slightly convex						Megatea	1
	straight or weakly concave						Earle Orange, Rouget de Sernhac, San Castrese	2
	moderately concave						Bergeron, Dulcinea, Moniquí, Rustic	3
	strongly concave						Polonais	4
18. (*)	QN	MS/VG		(b)	b			
	Petiole: length							
	short						Cape Bebeco, Madison, Moniquí, Ninfa, Veecot	3
	medium						Bergeron, Bulida, Cafona, Canino, Hargrand	5
	long						HG nº1, Ladisun, Reale d'Imola, Skopska Krupna	7
19. (*)	QN	MG/VG		(b)	b			
	Leaf: ratio length of blade /length of petiole							
	small						Earle Orange, Harcot, Pisana, Rouget de Sernhac	3
	medium						Bergeron, Calirose, Hâtif Colomer, Portici, Rouge du Roussillon	5
	large							7
20.	QN	VG		(b)	b			
	Petiole: thickness							
	thin						Flaming Gold, San Castrese, Veecot	3
	medium						Bulida, Harcot, Portici	5
	thick						Ceglédi arany, Moniquí, Reale d'Imola	7
21.	QN	VG		(b)	b			
	Petiole: anthocyanin coloration of upper side							
	weak						Cibo del Paradiso, Tri Gems	3
	medium						Bhart, Canino, Cape Bebeco, San Castrese	5
	strong						Ceglédi bíbor, Early Biady, Grandir, Harogem	7

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (*)	QN	MG	(b)	b			
	Petiole: predominant number of nectaries						
	none or one					Mandulakajsz, Rouget de Sernhac, Sant' Ambrogio	1
	two or three					Cafona, Magyar kajsz, Primarina, Veecot	2
	more than three					Bulida, Canino, Moniquí, Pisana	3
23.	QN	VG	(b)	b			
	Petiole: size of nectaries						
	small					Alpha, Calirose, Madison, San Francesco, Yerevani	3
	medium					Bulida, Ceglédi óriás, San Castrese, Tilton	5
	large					Canino, Early Biady, Harmat, Pisana, Red Blush	7
24. (*)	QN	MS/VG	(+)	(c)	c		
	Flower: diameter						
	small					Borsi rózsa, Hâtif Colomer, Supergold	3
	medium					Calirose, Magyar kajsz, Polonais, Portici, Reale d'Imola	5
	large					Hargrand, Harmat, San Castrese	7
25.	QN	VG	(c)	c			
	Flower: position of stigma relative to anthers						
	below					Canetta, Harmat, Rouge du Roussillon	1
	same level					Hargrand, Palsteyn, Portici	2
	above					Canino, Grandir, Pisana, Polonais	3
26.	PQ	VG	(+)	(c)	c		
	Petal: shape (excluding claw)						
	elliptic					Sant' Ambrogio	1
	circular					Faralia, Harcot, Luizet	2
	oblate					Canino, Polonais, Rustic, Vitillo	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27.	PQ	VG	(+)	(c)	c			
	Petal: color on lower side							
	white						Bulida, Cafona, Polonais	1
	light pink						Harcot, Magyar kajsz, San Castrese	2
	dark pink							3
28.	QN	VG		(c)	c			
	Flower: sepal attitude							
	upwards						Bhart, Ladisun	1
	outwards						Calirose, Farbaly	2
	downwards						Cape Bebeco	3
29. (*)	QN	MS/VG		(d)	c			
	Fruit: size							
	very small						Haggith, Menace, Supergold, Zard	1
	small						Borsi rózsza, Hâtif Colomer, Ladisun, Patriarca Temprano	3
	medium						Cafona, Canino, Harcot, Paz	5
	large						Ceglédi bíbor, Moniquí, Portici	7
	very large						Ceglédi óriás, Hargrand, Palsteyn, Pisana	9
30. (*)	PQ	VG	(+)	(d)	d			
	Fruit: shape in lateral view							
	triangular						Luizet	1
	ovate						Bergeron, Calirose, Pisana	2
	oblate						Korai zamatos, Nugget, Patriarca Temprano	3
	circular						Earle Orange, Grandir, Ninfa, Ouardi, Polonais	4
	oblong						Blenheim, Portici, Sundrop	5
	elliptic						Précoce d'Imola, Wenatchee, Yerevani	6
	obovate						Harcot, Harmat, Trevatt	7
	oblique rhombic						Banga, Bulida, Canino, Vulcan	8

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31. (*)	PQ	VG	(+)	(d)	d			
	Fruit: shape in ventral view							
	triangular						Luizet, Mandulakajsi, Reale d'Imola	1
	ovate						Bergeron, Calirose, Canino, Fracasso	2
	oblate						Nugget	3
	circular						Polonais, Rouge du Roussillon, San Castrese, Sant' Ambrogio, Supergold, Viceroy	4
	oblong						Baracca, Hargrand, Hâtif Colomer, Veecot	5
	elliptic						Bella d'Imola, Flaming Gold, Sant' Ambrogio, Yerevani	6
	obovate						Harcot, Harmat, Ladisun, Portici	7
32.	QN	MS/VG	(d)		d			
	Fruit: height							
	short						Patriarca Temprano, Samarkandskij rannij, Sayeb, Supergold	3
	medium						Bergeron, Canino, Cape Bebeco, Polonais	5
	tall						Calirose, Goldrich, Mandulakajsi, Vitillo	7
33.	QN	MS/VG	(d)		d			
	Fruit: lateral width							
	narrow						Cerasiello, Harmat, Manicot, Samarkandskij rannij, Supergold	3
	medium						Bergeron, Bhart, Cafona, Paz	5
	broad						Hargrand, Moniquí, Roxanne, Vitillo	7
34.	QN	MS/VG	(d)		d			
	Fruit: ventral width							
	narrow						Cerasiello, Harlayne, Hâtif Colomer, Tri Gems	3
	medium						Bhart, Cape Bebeco, Palummella	5
	broad						Ceglédi arany, Goldrich, Moniquí, Roxanne	7

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
35.	QN	MG/VG	(d)	d			
	Fruit: ratio height /ventral width						
	small					Korai zamatos, Monaco Bello, Patriarca Temprano, Peeka	3
	medium					Cafona, Canino, Magyar kajszi, Rouge du Roussillon, Solitaire	5
	large					Bergeron, Hâtif Colomer, Tri Gems, Vitillo	7
36. (*)	QN	MG/VG	(d)	d			
	Fruit: ratio lateral width/ventral width						
	very small					Monaco Bello	1
	small					Mandorlon, Maria Ferez, Rustic, Vesna	3
	medium					Bergeron, Luizet, Pisana, Rouge du Roussillon	5
	large					Borsi rózsza, Calicot, Henderson, IP 660	7
37. (*)	QN	VG	(d)	d			
	Fruit: symmetry in ventral view						
	symmetric					Canino, Hâtif Colomer, Magyar kajszi, Paz, Polonais, Portici	1
	slightly asymmetric					Boccuccia, Calirose, Ceglédi óriás, Royal	2
	clearly asymmetric					Borsi rózsza, Grandir, Reale d'Imola	3
38. (*)	PQ	VG	(d)	d			
	Fruit: suture						
	raised					Priboto	1
	slightly sunken					Calirose, Magyar kajszi, Ninfa, Rouge du Roussillon	2
	moderately sunken					Bergeron, Ladisun, Monaco Bello, Pineapple	3
	deeply sunken					Cape Bebeco, Dima, Henderson, Kech-pshar, Portici	4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
39.	QN	VG	(d)	d			
	Fruit: depth of stalk cavity						
	shallow					Harlayne, Peekas, Rouge du Roussillon, San Castrese	3
	medium					Blenheim, Grandir, Magyar kajsz, Vitillo	5
	deep					Canino, Ceglédi óriás, Hâtif Colomer, Kayzee, Palsteyn	7
40. (*)	PQ	VG	(+)	(d)	d		
	Fruit: shape of apex						
	acute					Hula Blush, Mandulakajsz, Reale d'Imola	1
	rounded					Bergeron, Calirose, Goldrich, Luizet, Portici	2
	truncate					Bella d'Imola, Hargrand, Hâtif Colomer, Royal	3
41.	PQ	VG	(d)	d			
	Fruit: shape of tip (excluding mucron tip)						
	pointed					Mediabel	1
	flat					Farbaly	2
	weakly depressed					Suapriseven	3
	strongly depressed					Primaya	4
42. (*)	QL	VG	(d)	d			
	Fruit: presence of mucron						
	absent					Blenheim, Bulida, Canino, San Castrese	1
	present					Bhart, Pisana	9
43.	QN	VG	(d)	d			
	Fruit: surface						
	smooth					Bergeron, Palsteyn, Portici, Rouge du Roussillon	1
	slightly bumpy					Cape Bebeco, Supergold	2
	moderately bumpy					Canino, Ceglédi óriás, Faralia, Nonno	3
	very bumpy					Rosa	4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
44. (*)	QL	VG	(d)	d			
	Fruit: pubescence						
	absent					Badami, Glattschalige Frühmarille	1
	present					Bergeron, Bulida, Canino, Magyar kajszi	9
45.	QN	VG	(d)	d			
	Only varieties with pubescence absent: Fruit: glossiness						
	absent or weak					Rouge du Roussillon	1
	medium					Harcot	2
	strong					Maravilla, Sun Glo	3
46. (*)	PQ	VG	(d)	d			
	Fruit: ground color of skin						
	not visible					A3759, A3844	1
	white					San Nicola, Shirazskij belyj	2
	yellowish					Piet Cillié, Soldonné, Vitillo, Yerevani	3
	yellow green					Grüne Spätmarille, Kaisi Ashtarak, Roxy, Sateni Karmir	4
	light orange					Canino, Goldcot, Hargrand, Portici, Rouge du Roussillon, Roxanne	5
	medium orange					Calirose, Hâtif Colomer, Luizet, Pisana, Veecot	6
	dark orange					Bhart, Harcot, Harogem	7
47. (*)	QN	VG	(d)	d			
	Fruit: relative area of over color						
	absent or very small					Charisma, Maria Matilde, Moniqué, Yerevani	1
	small					Cafona, Canino, Cape Bebeco, Goldrich	3
	medium					Hâtif Colomer, Magyar kajszi, Palsteyn, Portici, Roxy	5
	large					Bergeron, Bhart, Golden Blush, Pisana	7
	very large					A3759, A3844	9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
48. (*)	PQ	VG	(d)	d			
	Fruit: hue of over color						
	orange red						1
	red					Bhart	2
	pink						3
	purple						4
49. (*)	QN	VG	(d)	d			
	Fruit: intensity of over color						
	light					Big Cot	3
	medium					Calirose	5
	dark					Primarina	7
50. (*)	PQ	VG	(d)	d			
	Fruit: pattern of over color						
	isolated flecks (spots)					Big Cot, Rouge du Roussillon	1
	solid flush					Bergeron, Cape Bebeco	2
	covered all over with very small dots					Grandir, Moniquí	3
51. (*)	PQ	VG	(d)	d			
	Fruit: color of flesh						
	whitish green					Amban	1
	white					Cibo del Paradiso, Mouchbah Mourry, Spitak	2
	cream					Barese, Malatya, Moniquí, Patriarca Temprano	3
	light orange					Canino, Cape Bebeco, Harmat, San Castrese, Yerevani	4
	medium orange					Grandir, Harglow, Pisana, Rouge du Roussillon, Screara	5
	dark orange					Bhart, Francese, Harcot, Hâtif Colomer, Palsteyn	6

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
52.	QN	VG	(d)	d			
	Fruit: texture of flesh						
	fine					Fracasso, Harlayne, Peeka	1
	medium					Canino, Cape Bebeco, Magyar kajsz, Piet Cillié	2
	coarse					Bergeron, Précoce d'Imola	3
53.	QN	VG	(d)	d			
	Fruit: firmness of flesh						
	very soft					Sant' Ambrogio, Viceroy	1
	soft					Alessandrino, Goldcot, Grandir	3
	medium					Cape Bebeco, Magyar kajsz, Piet Cillié, Rouge du Roussillon, San Castrese	5
	firm					Bella d'Imola, Bergeron, Palsteyn, Suapriseven	7
	very firm					Boccuccia Liscia, Borsi rózs, Cacansko zlato, Harogem	9
54.	QN	MG	(d)	d			
	Fruit: ratio weight of fruit/weight of stone						
	small					Borsi rózs, Reale d'Imola	3
	medium					Blenheim, Hâtif Colomer, Portici, Primaya	5
	large					Badami, Bergeron, Hula Blush, San Castrese	7
55. (*)	QN	VG	(d)	d			
	Fruit: adherence of stone to flesh						
	absent or very weak					Bergeron, Hargrand, Ninfa, Peeka	1
	weak					Canino, Nonno, Paz, Rouge du Roussillon, Sirena	3
	medium					Tardif de Bordaneil	5
	strong					Comandor, Precoce di Toscana	7

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
56. (*)	PQ	VG	(+)	(d)	d			
	Stone: shape in lateral view							
	ovate						Goldcot, Grandir, Magyar kajszi, Portici	1
	circular						Canino, Eten Bey, Hargrand, Monaco Bello, Suaprieight	2
	elliptic						Bergeron, Roxanne, Vitillo	3
	oblong						Bella d'Imola, Calirose, Palsteyn, Rouge du Roussillon	4
	obovate						Harcot, Harmat	5
57.	QN	VG		(d)	d			
	Kernel: bitterness							
	absent or weak						Bergeron, Harcot, Magyar kajszi, Moniquí, Reale d'Imola	1
	medium						Bella d'Imola, Harlayne, Palsteyn, Suaprieight	2
	strong						Borsi rózsza, Canino, Manicot, Prevete, Supergold	3
58. (*)	QN	MG/VG	(+)					
	Time of beginning of flowering							
	very early						Bakour, Currots, Harmat, Ninfa, Solitaire	1
	early						Canino, Harcot, Hâtif Colomer, Roxanne, San Castrese	3
	medium						Bhart, Magyar kajszi, Moniquí, Portici, San Francesco, Supergold	5
	late						Bergeron, Boccuccia Liscia, Farius, Harlayne, Ladisun, Polonais	7
	very late						Badami, Harglow, Skromnyj, Stella, Zard	9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
59. (*)	QN	MG/VG	(+)					
	Time of beginning of fruit ripening							
	very early						Bakour, Ninfa, Patriarca Temprano, Rutbhart, Samarkandskij rannij	1
	very early-early						Monabri, Tsunami	2
	early						Bhart, Hâtif Colomer, Ladisun, Monaco Bello, Rouget de Sernhac, Tomcot	3
	early-medium						Goldrich, Hargrand	4
	medium						Amber Gold, Bergeron, Harlayne, Pisana, Polonais	5
	medium-late						Anegat	6
	late						Faralia, Larquen	7
	late-very late						Fartoli	8
	very late						Farclo, Lartago	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) Tree/One-year-old shoot: Unless otherwise stated, all observations on the tree and on the one-year-old shoot should be made during winter, on trees that have fruited at least once.
- (b) Leaf: Unless otherwise stated, all observations on the leaf should be made in summer on fully developed leaves from the middle third of a well developed current season's shoot.
- (c) Flower: Unless otherwise stated, all observations on the flower should be made on fully developed flowers at the beginning of dehiscence.
- (d) Fruit/Stone: All observations on the fruit and stone should be made on 25 fruits, five from each of five trees.

8.2 *Explanations for individual characteristics*

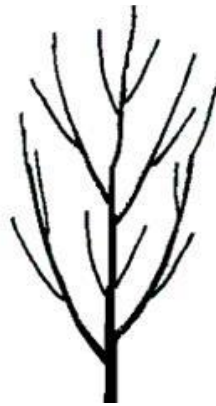
Ad. 1: Tree: vigor

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

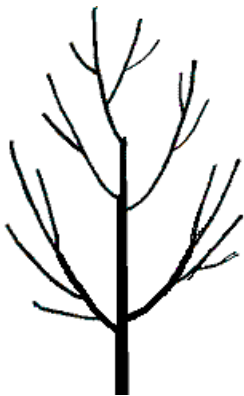
Ad. 2: Tree: habit



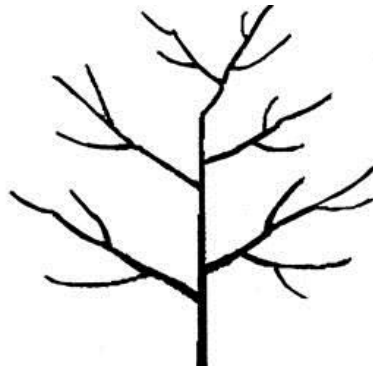
1
fastigate



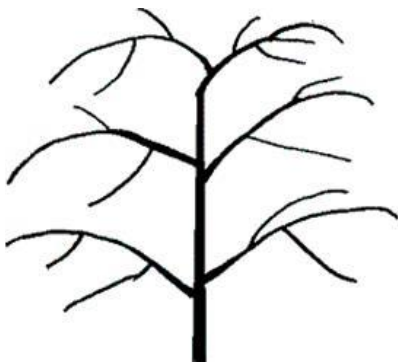
2
upright



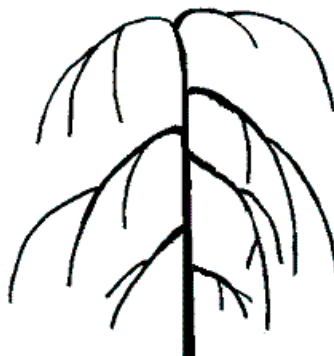
3
upright-spreading



4
spreading



5
drooping



6
weeping

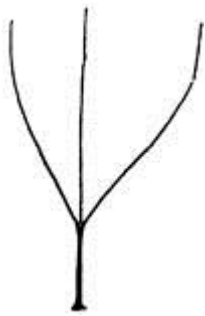
Ad. 3: Tree: degree of branching

Observations should relate to the number of branches with the degree of branching being indicated by the density of lateral branches and shoots, excluding fruiting shoots.

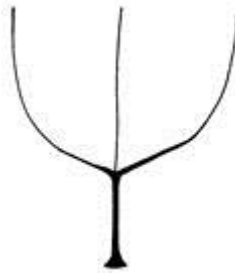
Ad. 6: One-year-old shoot: color on sunny side

Observations should be carried out in the middle of one-year-old primary shoots.

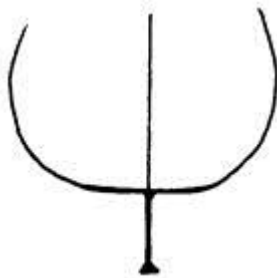
Ad. 12: Leaf blade: shape of base



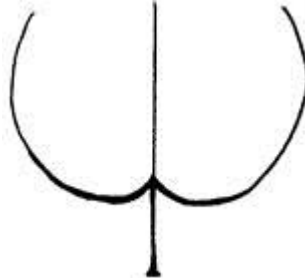
1
acute



2
obtuse

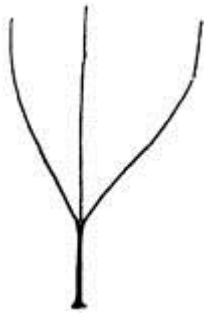


3
truncate

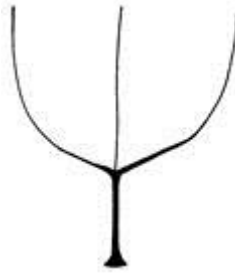


4
cordate

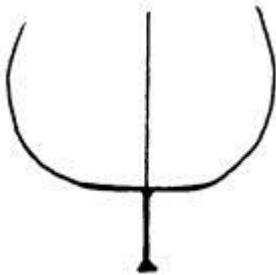
Ad. 13: Leaf blade: angle of apex (excluding tip)



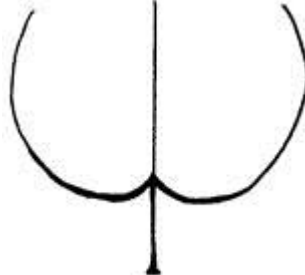
1
acute



2
obtuse



3
truncate



4
cordate

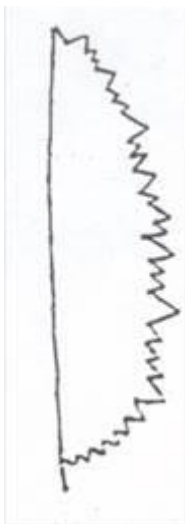
Ad. 15: Leaf blade: incisions of margin



1
crenate



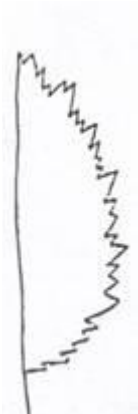
2
bicrenate



3
bidentate



4
serrate



5
biserrate

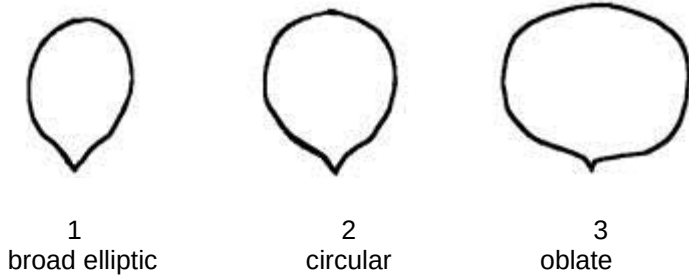
Ad. 17: Leaf blade: profile in cross section

Leaves observed should be on spurs or at base of flowering shoots.

Ad. 24: Flower: diameter

Observations or measurements should be carried out on fully opened flowers.

Ad. 26: Petal: shape (excluding claw)

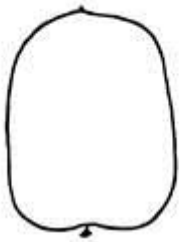
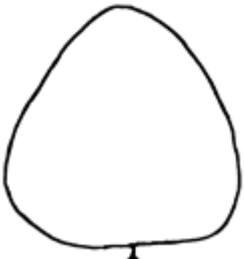
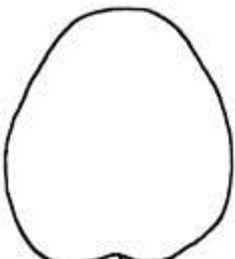
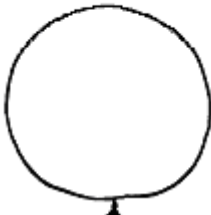
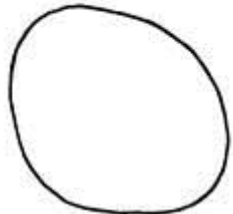


Ad. 27: Petal: color on lower side

Observations should be carried out just after opening of sepals on the lower side.

Ad. 30: Fruit: shape in lateral view

Ad. 31: Fruit shape in ventral view

		← broadest part →			
		below middle		at middle	above middle
width (ratio length/ width)					
narrow (high)				 6 elliptic	
medium (medium)				 5 oblong	
		 1 triangular	 2 ovate	 4 circular	 8 obovate
broad (low)				 3 oblate	 7 oblique rhombic (not applicable for char. 30)

Ad. 31: Fruit: shape in ventral view

Ad. 30: Fruit: shape in lateral view

Ad. 31: Fruit: shape in ventral view

Ad. 32: Fruit: height

Ad. 33: Fruit: lateral width

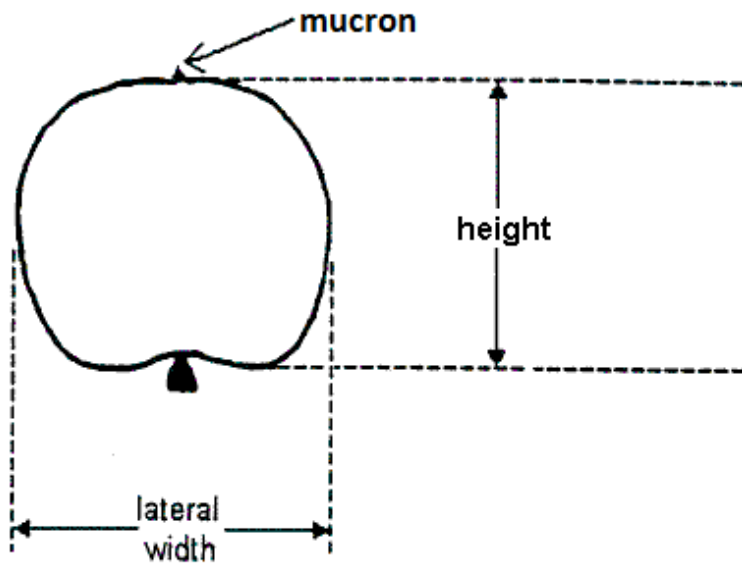
Ad. 34: Fruit: ventral width

Ad. 35: Fruit: ratio height/ventral width

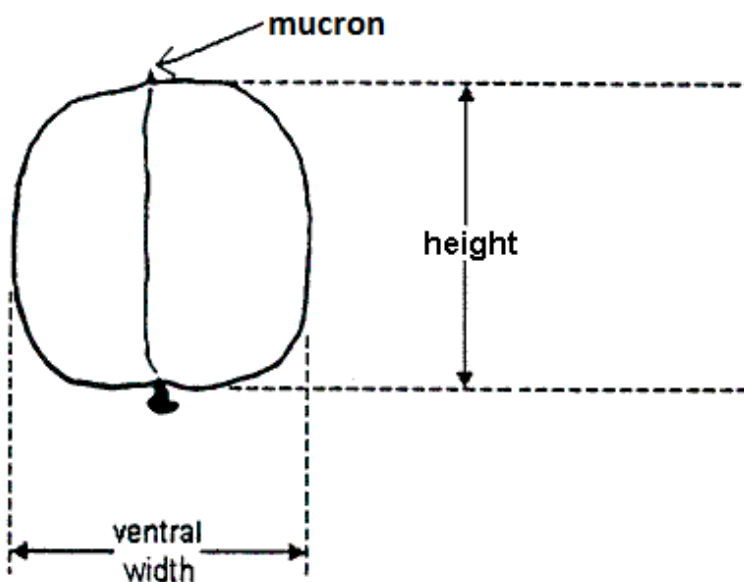
Ad. 36: Fruit: ratio lateral width/ventral width

Ad. 42: Fruit: presence of mucron

Lateral view



Ventral view



Ad. 40: Fruit: shape of apex

Observations should be carried out on fruits in lateral view.



1
acute

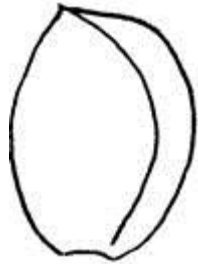
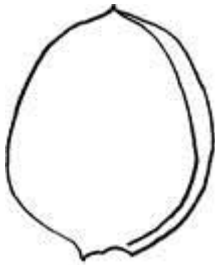
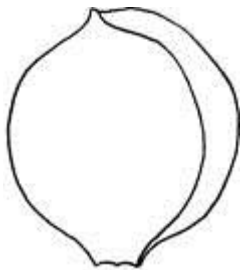


2
rounded



3
truncate

Ad. 56: Stone: shape in lateral view

		←broadest part →		
		below middle	at middle	above middle
width (ratio length/width)				
narrow (high)			 4 oblong	
medium (medium)		 1 ovate	 3 elliptic	 5 obovate
broad (low)			 2 circular	

Ad. 58: Time of beginning of flowering

When 5-10% open flowers can be observed.

Ad. 59: Time of beginning of fruit ripening

When 5-10% ripen fruits can be observed. Fruit ripening should be considered as the time of eating ripeness, when the fruit is most easily removed.

8.3

Example Varieties	Synonym(s)
Sant' Ambrogio	Ambrosia, Saint Ambroise
Bhart	NJA 32
Borsi rózsza	Kecskemeter rose, Ružova neskora, Trandafirii tirzi
Čačacansko zlato	Čačak's Gold
Earle Orange	Erle Orange, Stark Earli Orange, Early Orange
Goldrich	Sungiant
Magyar kajsi	Cea mai bună de Ungaria, Hungarian Best, Klosterneuburger
	Aprikose, Krasnoshchokij, Mađarska najbolja, Meilleur d'Hongrie,
	Ungarische Beste, Velkopavlovická
Pineapple	Abricot d'Ananas, Ananas-Marille, Ananasnyj
Proimo Tyrinthos	Précoce de Tyrinthe
Rutbhart	Early Blush®
Sateni Karmir	Tabarza
Yerevani	Shalakh

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10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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	Application date: (not to be filled in by the applicant)
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TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights	
1. Subject of the Technical Questionnaire	
1.1 Botanical name	Prunus armeniaca L.
1.2 Common name	Apricot
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	

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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)

(.....) x (.....)
female parent male parent

(b) partially known cross []
(please state known parent variety(ies))

(.....) x (.....)
female parent male parent

(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)

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4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) Cuttings ☐
- (b) *In vitro* propagation ☐
- (c) Other (state method) ☐

4.2.2 Other ☐
(Please provide details)

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

Characteristics	Example Varieties	Note
5.1 Fruit: size (29)		
very small	Haggith, Menace, Supergold, Zard	1 []
small	Borsi rózsza, Hâtif Colomer, Ladisun, Patriarca Temprano	3 []
medium	Cafona, Canino, Harcot, Paz	5 []
large	Ceglédi bíbor, Moniquí, Portici	7 []
very large	Ceglédi óriás, Hargrand, Palsteyn, Pisana	9 []
5.2 Fruit: ground color of skin (46)		
not visible	A3759, A3844	1 []
white	San Nicola, Shirazskij belyj	2 []
yellowish	Piet Cillié, Soldonné, Vitillo, Yerevani	3 []
yellow green	Grüne Spätmarille, Kaisi Ashtarak, Roxy, Sateni Karmir	4 []
light orange	Canino, Goldcot, Hargrand, Portici, Rouge du Roussillon, Roxanne	5 []
medium orange	Calirose, Hâtif Colomer, Luizet, Pisana, Veecot	6 []
dark orange	Bhart, Harcot, Harogem	7 []
5.3 Fruit: relative area of over color (47)		
absent or very small	Charisma, Maria Matilde, Moniquí, Yerevani	1 []
small	Cafona, Canino, Cape Bebeco, Goldrich	3 []
medium	Hâtif Colomer, Magyar kajszi, Palsteyn, Portici, Roxy	5 []
large	Bergeron, Bhart, Golden Blush, Pisana	7 []
very large	A3759, A3844	9 []
5.4 Fruit: color of flesh (51)		
whitish green	Amban	1 []
white	Cibo del Paradiso, Mouchbah Mourry, Spitak	2 []
cream	Barese, Malatya, Moniquí, Patriarca Temprano	3 []
light orange	Canino, Cape Bebeco, Harmat, San Castrese, Yerevani	4 []
medium orange	Grandir, Harglow, Pisana, Rouge du Roussillon, Screara	5 []
dark orange	Bhart, Francese, Harcot, Hâtif Colomer, Palsteyn	6 []

Characteristics	Example Varieties	Note
5.5 (58) Time of beginning of flowering		
very early	Bakour, Currots, Harmat, Ninfa, Solitaire	1 []
early	Canino, Harcot, Hâtif Colomer, Roxanne, San Castrese	3 []
medium	Bhart, Magyar kajszai, Moniquí, Portici, San Francesco, Supergold	5 []
late	Bergeron, Boccuccia Liscia, Farius, Harlayne, Ladisun, Polonais	7 []
very late	Badami, Harglow, Skromnyj, Stella, Zard	9 []
5.6 (59) Time of beginning of fruit ripening		
very early	Bakour, Ninfa, Patriarca Temprano, Rutbhart, Samarkandskij rannij	1 []
very early-early	Monabri, Tsunami	2 []
early	Bhart, Hâtif Colomer, Ladisun, Monaco Bello, Rouget de Sernhac, Tomcot	3 []
early-medium	Goldrich, Hargrand	4 []
medium	Amber Gold, Bergeron, Harlayne, Pisana, Polonais	5 []
medium-late	Anegat	6 []
late	Faralia, Larquen	7 []
late-very late	Fartoli	8 []
very late	Farclo, Lartago	9 []

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6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Fruit ground color of skin</i>	<i>light orange</i>	<i>dark orange</i>
Comments:			

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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes ☐ No ☐

(If yes, please provide details)

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

Yes ☐ No ☐

(If yes, please provide details)

7.3 Other information

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

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

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

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

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

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8. Authorization for release

- (a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

- (b) Has such authorization been obtained?

Yes [] No []

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

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

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | | |
|-----|---|---------|--------|
| (a) | Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) | Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) | Tissue culture | Yes [] | No [] |
| (d) | Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

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

Yes []

(please provide details as specified by the Authority)

No []

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

Applicant's name

Signature

Date

[End of document]