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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

JAPANESE PEAR

UPOV Code(s): PYRUS_PYR; PYRUS_USS, PYRUS_PUS

Pyrus pyrifolia (Burm. f.) Nakai; Pyrus ussuriensis Maxim. & Rupr.; Hybrids between Pyrus pyrifolia and Pyrus ussuriensis

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Japan

to be considered by the

Technical Working Party for Fruit Crops at its fifty-sixth session, to be held in Bursa, Türkiye, from 2025-06-23 to 2025-06-26

Disclaimer: this document does not represent UPOV policies or guidance

Alternative Names:*

Botanical name	English	French	German	Spanish
<i>Pyrus pyrifolia</i> (Burm. f.) Nakai	Asian pear, Chinese pear, Chinese sand pear, Japanese pear, Nashi, Nashi pear, Oriental pear, Sand pear	poirier japonais	China-Birne, Nashi- Birne, Sandbirnbaum	pera
<i>Pyrus ussuriensis</i> Maxim. & Rupr.	Harbin pear, Ussurian pear		Ussuri-Birne	
Hybrids between Pyrus pyrifolia and Pyrus ussuriensis, Pyrus pyrifolia (Burm. f.) Nakai × Pyrus ussuriensis Maxim.				

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

ASSOCIATED DOCUMENTS

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

Other associated UPOV documents : TG/169/3 + Corr. Pyrus Rootstocks

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1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Pyrus pyrifolia* (Burm. f.) Nakai, *Pyrus ussuriensis* Maxim. & Rupr. and hybrids between *Pyrus pyrifolia* and *Pyrus ussuriensis*, except for varieties used only as rootstock vatieties (see TG/169/3 + Corr.).

2. <u>Material Required</u>

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 trees grafted on rootstocks specified by the competent authority.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

(a) varieties resulting from crossing: 5(b) varieties resulting from mutation: 10

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. <u>Method of Examination</u>

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 the dormancy period, followed by bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period starts.

3.1.5 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

3.2 Testing Place

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

3.3 Conditions for Conducting the Examination

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

3.3.2 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should

be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description.

3.4 Test Design

3.4.1 In the case of varieties resulting from crossing, each test should be designed to result in a total of at least 5 plants.

3.4.2 In the case of varieties resulting from mutation, each test should be designed to result in a total of at least 10 plants.

3.5 Additional Tests

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

4. Assessment of Distinctness, Uniformity and Stability

4.1 Distinctness

4.1.1 General Recommendations

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

4.1.2 Consistent Differences

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

4.1.3 Clear Differences

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

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 3 plants or parts of plants taken from each of 3 plants and any other observations made on all plants in the test, disregarding any off-type plants.

In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 2.

4.1.5 Method of Observation

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

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

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

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

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

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

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

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

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

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

4.2 Uniformity

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

4.2.2 These Test Guidelines have been developed for the examination of vegetatively propagated. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.

4.2.3 For the assessment of uniformity of varieties resulting from crossing, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 5 plants, no off-types are allowed.

4.2.4 For the asseement of uniformity of varieties resulting from mutation, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 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 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. <u>Grouping of Varieties and Organization of the Growing Trial</u>

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: weight (characteristic 30)
- (b) Fruit: shape in lateral view (characteristic 34)
- (c) Fruit: ground color of skin (characteristic 35)
- (d) Fruit: relative area of over color (characteristic 36)
- (e) Fruit: over color (characteristic 37)
- (f) Fruit: relative area of russet (characteristic 38)
- (g) Time of beginning of flowering (characteristic 61)
- (h) Time for harvest maturity (characteristic 62)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

6.2 States of Expression and Corresponding Notes

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

6.2.2 All relevant states of expression are presented in the characteristic.

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

6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudoqualitative) 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		françai	S	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7			
		Name of characteristics in English states of expression		Nom d en frar	u caractère ıçais	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 QN PQ	Qualitative characteristic Quantitative characteristic Pseudo-qualitative characteristic	 see Chapter 6.3 see Chapter 6.3 see Chapter 6.3
4	Method of observation (and ty MG, MS, VG, VS	pe of plot, if applicable)	– see Chapter 4.1.5
5	(+)	See Explanations on the Table of Cha	aracteristics in Chapter 8.2
6	(a)-(x)	See Explanations on the Table of Cha	aracteristics in Chapter 8.1
7	Growth stage key (if applicable	e) See Explanations on the Tab	le of Characteristics in Chapter 8.3

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

			English	f	rançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	(*)	QN	VG						
		Tree	: vigor						
		very	weak						1
		weak						Yakumo	2
		medi	um					Hosui, Kosui, Shinseiki	3
		stron	g					Shinsui	4
		very	strong						5
2.	(*)	PQ	VG	(+)	(a)				
		Tree	growth habit						
		fastig	jiate						1
		uprig	ht					Shinsui	2
		sprea	ading					Niitaka	3
		droop	bing					Chojuro	4
		weep	bing						5
3.		QN	MS/VG	(+)	(a)				
		shoo	year-old t: length of nodes						
		short							1
		short	to medium					Nijisseiki, Shinsui	2
		medi	um					Hosui	3
		medi	um to long					Kosui	4
		long							5
4.	(*)	PQ	VG		(a)				
		shoo	year-old ot: color on oy side						
		dark	purple					Oharabeni	1
		brow						Chojuro, Niitaka	2
		oran	ge brown						3
		greer	nish brown					Gold Nijisseiki	4
		black	ish brown					Hosui	5

			English	frança	is	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5.	(*)	QN	VG	(a)					
		One- shoo lentio	year-old t: density of cels						
		very	few						1
		few						Choju	2
		medi	um					Gold Nijisseiki, Hosui, Kosui, Niitaka	3
		many	1					Shinko, Shinseiki	4
		very	many						5
6.	(*)	QN	VG	(a)					
		One- shoo lentio	year-old t: size of cels						
		small						Chojuro, Shinseiki	1
		medi	um					Gold Nijisseiki, Hosui, Kosui	2
	•	large	1					Niitaka, Shinsui	3
7.		QN	VG	(a)					
		shoo	year-old t: scence						
		abse weak	nt or very					Hosui, Kosui	1
		weak							2
		medi	um					Shinko	3
		stron	g						4
		very	strong					Gold Nijisseiki	5
8.	(*)	QN	VG						
		Bran of sp	ch: number ours						
		few						Kosui	1
		few to	o medium						2
		medi	um					Hosui	3
		medi	um to many						4
		many	/					Gold Nijisseiki, Shinko, Shinsui	5

			English	1	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9.	(*)	PQ	VG	(+)					
		Vege posit to sh	tative bud: ion relative oot						
		adpre	essed					Kosui, Shinsui	1
		slight	ly held out					Chojuro, Hosui, Nijisseiki	2
		mark	edly held out					Niitaka, Shinko	3
10.		PQ	VG	(+)					
		Vege shap	tative bud: e of apex						
		point	ed					Gold Nijisseiki, Kosui	1
		slight	ly rounded					Hosui, Shinko	2
		stron	gly rounded					Shinsui	3
11.	(*)	QN	VG		(a)				
		shoo	year-old t: number of ıry flower						
		very	few						1
		few						Gold Nijisseiki, Shinsui	2
		medi	um					Kosui, Shinseiki	3
		many	,					Chojuro, Hosui	4
		very							5
12.	(*)	PQ	VG						
		Flow shap	er bud: e						
		ovate	9					Chojuro, Gold Nijisseiki, Kosui	1
		narro	w elliptic					Hosui	2
		broad	d elliptic					Shinsui	3
		round	1					Aikansui, Shinseiki	4
13.	(*)	PQ	VG						
		Your of up	ig leaf: color oper side						
		yellov	w green					Chikusui, Shinseiki	1
		greer	nish brown					Yakumo	2
		brow	n					Gold Nijisseiki, Hosui, Kosui	3
		red b	rown					Shinko, Shinsui	4

English français deutsch español **Example Varieties** Note/ Exemples Nota Beispielssorten Variedades ejemplo VG 14. (*) QN Young leaf: pubescence on lower side absent or very 1 weak weak Hosui, Kosui, Shinsui 2 Aikansui, Chojuro, medium 3 Niitaka Gold Nijisseiki, 4 strong Shinseiki 5 very strong MS/VG 15. (*) QN (b) Leaf blade: length very short 1 2 very short to short 3 short Hosui, Shinsui 4 short to medium Gold Nijisseiki, Kosui medium 5 medium to long 6 7 long long to very long 8 very long 9 16. (*) QN MS/VG (b) Leaf blade: width very narrow 1 very narrow to 2 narrow Hosui, Shinko 3 narrow 4 narrow to medium Shinsui 5 medium medium to broad 6 Niitaka 7 broad 8 broad to very broad 9 very broad

English français deutsch español **Example Varieties** Note/ Exemples Nota Beispielssorten Variedades ejemplo MS/VG 17. (*) QN (b) Leaf blade: ratio length/width very low 1 very low to low 2 low Niitaka 3 4 low to medium Hosui 5 medium 6 medium to high high 7 8 high to very high 9 very high 18. PQ ٧G (+) (b) Leaf blade: incisions of margin serrate 1 dentate 2 crenate 3 19. (*) QN MS/VG (b) Petiole: length very short 1 very short to short 2 short Niitaka, Shinko 3 short to medium Gold Nijisseiki 4 medium Tama 5 6 medium to long Yakumo 7 long 8 long to very long 9 very long MS/VG 20. QN (b) Petiole: ratio petiole length / leaf blade length very low 1 low Kikusui, Niitaka 2 3 medium Hosui, Kosui Yakumo 4 high 5 very high

			English	f	rançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
21.	(*)	QN	MS/VG						
			rescence: ber of flowers						
		few							1
		few to	o medium					Chojuro, Hosui,	2
		medi	um					Shinsui	3
		medi	um to many						4
		many						Gold Nijisseiki, Kosui	5
22.	(*)	PQ	VG						
		outer	: color of r side just re opening of er						
		white						Niitaka, Shinko, Shinseiki	1
		light p	oink					Hosui, Kosui, Shinsui	2
		medi	um pink					Choju	3
		light ı	red					Oharabeni	4
23.	(*)	QN	MS/VG		(c)				
		Flow	er: diameter						
		small						Atago	1
		small	to medium						2
		medi	um					Chojuro, Gold Nijisseiki, Shinsui	3
		medi	um to large						4
	1	large						Hosui, Kosui	5
24.	(*)	PQ	VG	(+)	(c)				
		Petal	: shape						
		ovate						Hosui, Shinko	1
		ellipti	с					Kosui	2
		round	1					Chojuro, Gold Nijisseiki, Niitaka	3
25.		QN	VG	(+)	(c)				
			: number of nes on in						
		abse	nt or few					Aikansui, Niitaka	1
		medi	um					Gold Nijisseiki, Hosui, Kosui, Shinsui	2
		many	,					Chojuro, Shinseiki	3

English français deutsch español **Example Varieties** Note/ Exemples Nota Beispielssorten Variedades ejemplo MS/VG 26. (*) QN (c) Flower: number of stamens very few 1 few Chojuro 2 medium Hosui, Niitaka 3 4 Kikusui, Kosui many 5 very many 27. QN ٧G (+) Anther: intensity of red color light Kosui, Niitaka 1 medium Hosui, Shinsui 2 Gold Nijisseiki, dark 3 Shinko 28. (*) QL VG Anther: pollen Ishiiwase, Kumoi, 1 absent Niitaka Chojuro, Hosui, Kosui, Nijisseiki, Shinsui present 9 29. QN VG (c) Pedicel: pubescence very weak 1 2 weak Hosui, Kosui 3 medium Nijisseiki, Shinko, strong 4 Shinseiki very strong 5

English français deutsch español **Example Varieties** Note/ Exemples Beispielssorten Nota Variedades ejemplo MG/MS 30. (*) QN (d) Fruit: weight very low 1 2 very low to low 3 low Shinsui 4 low to medium Chojuro, Gold Nijisseiki, Kosui 5 medium medium to high 6 high Hosui, Shinko 7 high to very high Niitaka 8 very high Atago 9 31. (*) QN MS/VG (+) (d) Fruit: height very short 1 very short to short 2 Shinsui short 3 4 short to medium medium Kosui 5 Gold Nijisseiki, Hosui 6 medium to tall tall Niitaka, Shinko 7 tall to very tall 8 Atago very tall 9 MS/VG 32. QN (d) (*) (+) Fruit: diameter very small 1 2 very small to small small 3 small to medium Shinsui 4 5 medium Gold Nijisseiki, Kosui medium to large 6 7 Hosui, Shinko large large to very large Niitaka 8 9 very large Atago

			English	f	rançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33.	(*)	QN	MS/VG	(+)	(d)				
			: ratio nt/diameter						
		very l	ow						1
		very l	ow to low						2
		low						Shinsui	3
		low to	medium					Atago, Hosui, Kosui, Niitaka	4
		medi	um					Gold Nijisseiki, Shinko	5
		medi	um to high						6
		high							7
		high t	o very high						8
		very l	nigh		1				9
34.	(*)	PQ	VG	(+)	(d)				
		Fruit latera	: shape in al view						
		ovate	•						1
		narro	w elliptic						2
		broad	l elliptic					Yakumo	3
		circul	ar					Hosui	4
		oblate	e					Shinsui	5
		obova						Yasato	6
35.	(*)	PQ	VG		(d)				
		Fruit color	ground of skin						
		not vi	sible					Hosui, Niitaka, Shinko	1
		yellov	v						2
		greer	1	<u> </u>					3
		light y	ellow green/	<u> </u>				Yakumo	4
		dark	yellow green					Gold Nijisseiki	5

			English	fı	ançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
36.	(*)	PQ	VG						
			: relative area er color		I				
		abser small	nt or very						1
			small to small						2
		small							3
		small	to medium						4
		medi	um						5
		medi	um to large						6
		large							7
		large	to very large						8
		very l	arge						9
37.	(*)	PQ	VG						
		Fruit	: over color						
		orang	je						1
		orang	ge red						2
		pink r	red					PremP109	3
		light r	ed						4
		deep	red						5
38.	(*)	PQ	VG	(+)	(d)				
		Fruit: of ru	: relative area sset						
		abser small	nt or very					Gold Nijisseiki	1
		small							2
		mediu	um					Chikusui	3
		large						Kosui	4
		very l	arge					Hosui, Niitaka, Shinko	5
39.	(*)	PQ	VG		(d)				
		Fruit: russe	: color of et						
		yellov	w brown					Chikusui	1
			wish red brown					Hosui, Kosui, Shinko	2
		red b						Chojuro	3

			English	fr	ançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
40.	(*)	QN	VG		(d)				
		Fruit russ	: texture of et						
		very	smooth						1
		smoo	oth					Shinsui	2
		medi	um					Kosui, Niitaka, Shinko	3
		rougł	า					Hosui	4
		very	rough						5
41.	(*)	QN	VG		(d)				
		Fruit lentio	: size of cels						
		small						Shinseiki, Yakumo	1
		small	l to medium						2
		medi	um					Gold Nijisseiki, Hosui, Kosui, Niitaka	3
		medi	um to large						4
		large						Kimizuka Wase	5
42.	(*)	QN	VG		(d)				
		Fruit lentio	: density of cels						
		very	sparse						1
		spars	se						2
		medi	um					Kosui, Shinko	3
		dens	e					Gold Nijisseiki, Hosui, Niitaka	4
		very	dense						5
43.	(*)	QN	MG/MS/VG	(+)	(d)				
		Fruit stalk	: depth of cavity						
		shalle	WC						1
		shalle	ow to medium					Gold Nijisseiki	2
		medi	um					Kosui	3
		medi	um to deep						4
		deep							5

			English	f	rançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
44.	(*)	QN	MG/MS/VG	(+)	(d)				
		Fruit caly>	: depth of basin						
		shalle	W						1
		shallo	ow to medium					Aikansui	2
		medi	um					Hosui	3
		medi	um to deep					Shinsui	4
		deep		1					5
45.	(*)	QN	MG/MS/VG	(+)	(d)				
			: width of cavity						
		narro	W						1
		narro	w to medium						2
		medi	um					Gold Nijisseiki, Hosui	3
		medi	um to broad					Shinko	4
		broad	ł					Aikansui	5
46.	(*)	QN	MG/MS/VG	(+)	(d)				
			: width of basin						
		narro	W						1
		narro	w to medium					Chikusui	2
		medi	um					Gold Nijisseiki, Hosui	3
		medi	um to broad						4
		deep						Kosui, Niitaka, Shinsui	5
47.		QN	VG	(+)	(d)				
		form	: tendency to fruits with istent calyx						
		abse	nt or weak					Gold Nijisseiki, Hosui, Kosui	1
		medi	um					Yasato	2
		stron	g					Akizuki	3

			English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
48.	(*)	QN	MS/VG		(d)				
		Fruit stalk	: length of						
		short						Chikusui	1
		short	to medium						2
		medi	um					Gold Nijisseiki, Hosui, Kosui	3
		medi	um to long						4
		long						Okusankichi	5
49.	(*)	QN	MS/VG	(+)	(d)				
		Fruit stalk	: thickness of						
		thin						Hosui	1
		thin t	o medium						2
		medi	um					Kosui, Niitaka	3
		medi	um to thick						4
		thick						Gold Nijisseiki	5
50.	(*)	QL	VG	(+)	(d)				
		Fruit stalk	: swelling of						
		abse	nt					Hosui, Niitaka, Shinko	1
		prese	ent					Gold Nijisseiki, Kosui	9
51.	(*)	PQ	VG	(+)	(d)				
		Fruit core	: shape of						
		narro	w ovate					Yakumo	1
		broad	d ovate					Kosui	2
		narro shap	w spindle- ed					Kumoi	3
		broad	d spindle-					Gold Nijisseiki, Hosui,	4
52.	(*)	shap QN	MS/VG	(+)	(d)			Niitaka	
			: ratio width re/diameter						
		very	small						1
		small						Kosui	2
		medi	um					Gold Nijisseiki, Hosui	3
		large						Shinko	4
		very	arge						5

			English	f	rançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
53.	(*)	QL	VG		(d)				
		Fruit locul	: number of es						
		only	5					Gold Nijisseiki, Hosui, Niitaka	1
		more	than 5					Kosui	2
54.	(*)	PQ	VG		(d)				
		Fruit flesh	: color of						
		white	1					Hosui, Niitaka	1
		yellov	wish white					Gold Nijisseiki	2
		whitis	sh yellow					Shinko	3
		pinkis	sh						4
55.	(*)	QN	MS/VG	(+)	(d)				
		Fruit flesh	: firmness of						
		soft						Gold Nijisseiki, Kosui	1
		soft t	o medium						2
		medi						Niitaka	3
			um to firm						4
		firm						Chojuro	5
56.		QN	VG		(d)				
		Fruit flesh	: texture of						
		fine						Hosui, Kosui	1
		fine t	o medium						2
		medi	um					Shinko, Shinsui	3
		medi	um to coarse						4
		coars						Chojuro	5
57.		QN	MG	(+)	(d)				
			: sweetness						
		very	low						1
		low						Kumoi Gold Nijisseiki,	2
		medi	um					Shinko	3
		high						Hosui, Shinsui	4
		very	high]					5

			English	fr	ançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
58.		QN	MG	(+)	(d)				
		Fruit	acidity						
		very	ow						1
		low						Kosui	2
		medi	um					Shinsui	3
		high						Hosui	4
		very	high						5
59.		QN	MS/VG		(d)				
		Seed	: size						
		small							1
		small	to medium					Chikusui	2
		medi	um					Gold Nijisseiki, Hosui, Kosui	3
		medi	um to large					Niitaka	4
		large							5
60.		PQ	VG	(+)	(d)				
		Seed	: shape						
		broad	d ovate					Gold Nijisseiki, Hosui, Niitaka	1
		narro	w ovate					Shinko	2
		sickle	e shaped						3
61.	(*)	QN	VG	(+)					
		Time of flo	of beginning wering						
		very	early						1
		very	early to early						2
		early						Niitaka	3
		early	to medium						4
		medi	um					Gold Nijisseiki, Hosui, Shinsui	5
		medi	um to late						6
		late						Kosui, Okusankichi	7
		late t	o very late						8
		very	ate						9

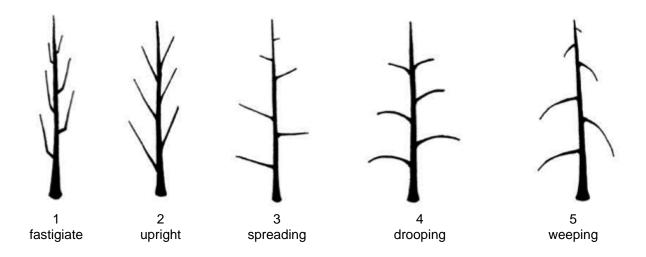
			English	fr	ançais	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
62.	(*)	QN	VG	(+)					
		Time matu	for harvest rity						
		very	early						1
		very	early to early					Aikansui	2
		early						Shinsui	3
		early	to medium						4
		medi	um					Gold Nijisseiki, Hosui	5
		medi	um to late						6
		late						Niitaka	7
		late to	o very late					Shinko	8
		very	late					Okusankichi	9
63.		QL	VG	(+)					
		Self-	compatibility						
		abse	nt					Gold Nijisseiki, Hosui, Kosui, Niitaka	1
		prese	ent					Osa Gold, Osa Nijisseiki	9
64.		QL	VG	(+)					
		black (<i>Alte</i> <i>alteri</i> Japa	stance to < spot <i>rnaria</i> nata nese pear otype)						
		absei	nt					Nansui, Nijisseiki, Osa Nijisseiki, Shinsui	1
		prese	ent					Hosui, Kosui, Niitaka	9

- 8. Explanations on the Table of Characteristics
- 8.1 Explanations covering several characteristics

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

- (a) Observations should be made during winter on trees that have fruited at least once.
- (b) Observations should be made on fully developed leaves from the middle third of current season shoot.
- (c) Observations should be made on fully developed flowers at the beginning of anther dehiscence.
- (d) Observations should be made on fruits at harvest maturity.
- 8.2 Explanations for individual characteristics

Ad. 2: Tree: growth habit



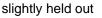
Ad. 3: One-year-old shoot: length of internodes

Observation should be made on the middle third of the shoot.

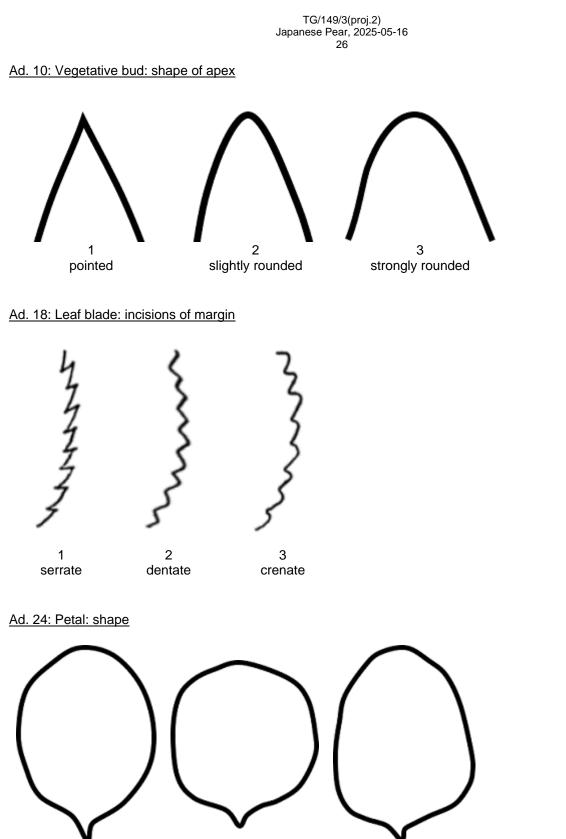
Ad. 9: Vegetative bud: position relative to shoot











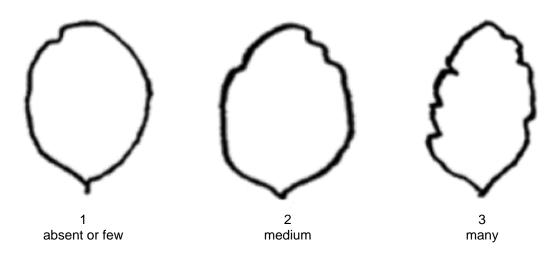
1 elliptic

2 round

3

ovate

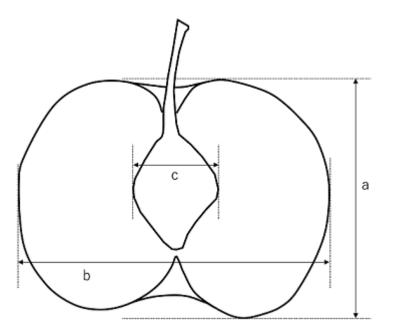
Ad. 25: Petal: number of notches on margin



Ad. 27: Anther: intensity of red color

Observations should be made before dehiscence.

Ad. 31: Fruit: height



a= Fruit: height
b= Fruit: diameter
a/b= Fruit: ratio height/diameter
c/b= Fruit: ratio width of core/diameter of fruit

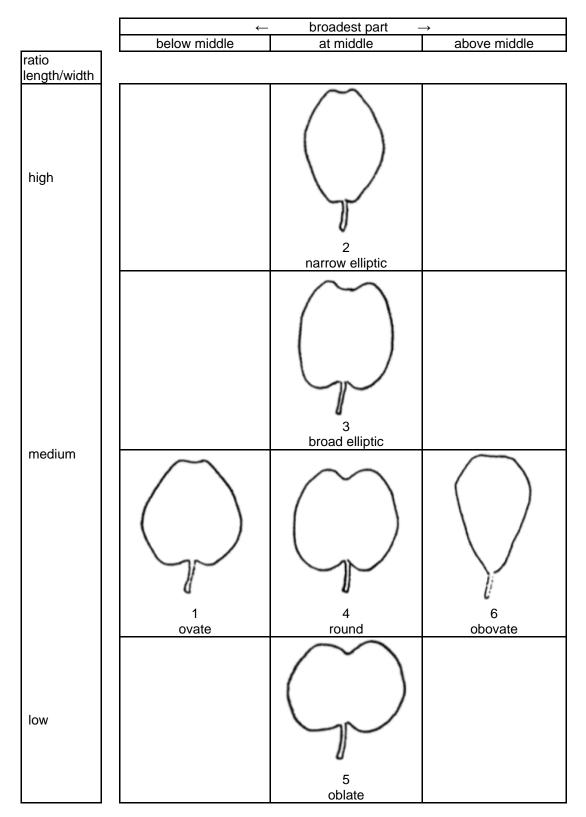
Ad. 32: Fruit: diameter

See Ad. 31

Ad. 33: Fruit: ratio height/diameter

See Ad. 31

Ad. 34: Fruit: shape in lateral view



Ad. 38: Fruit: relative area of russet





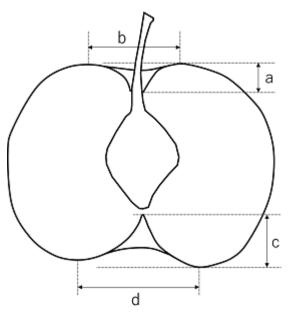
intermediate

whole surface

(1) absent or small: The part of the skin that is covered with russet is either not at all or only partially.(2) intermediate: Approximately half or more of the skin is covered with russet, but not the entire surface.

(3) whole surface: The entire surface of the skin is covered with russet.

Ad. 43: Fruit: depth of stalk cavity



a= Fruit: depth of stalk cavity b= Fruit: width of stalk cavity c= Fruit: depth of calyx basin d= Fruit: width of calyx basin

Ad. 44: Fruit: depth of calyx basin

See Ad. 42

Ad. 45: Fruit: width of stalk cavity

See Ad. 42

Ad. 46: Fruit: width of calyx basin

See Ad. 42

Ad. 47: Fruit: tendency to form fruits with persistent calyx

- (1) absent or weak: Fruits with persistent calyx are none or very few.
- (2) medium: Fruits with persistent calyx are sometimes present.
- (3) strong: All or most of the fruits have persistent calyx.

Ad. 49: Fruit: thickness of stalk

Observation should be made on the middle of the stalk.

Ad. 50: Fruit: swelling of stalk

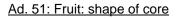
Observations should be made on the base of the stalk.

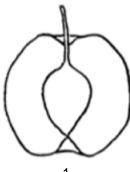




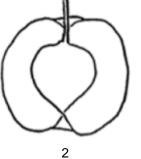
absent

9 present

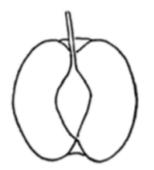








broad ovate



3 narrow spindle-shaped



4 broad spindle-shaped

Ad. 52: Fruit: ratio width of core/diameter of fruit

See Ad. 31

Ad. 55: Fruit: firmness of flesh

Observation can be made by measurement using penetrometer.

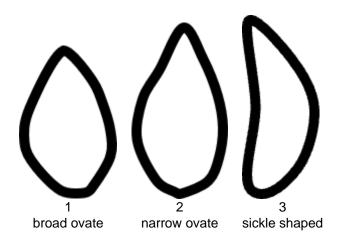
Ad. 57: Fruit: sweetness

Sweetness can be determined by measurement using a refractometer.

Ad. 58: Fruit: acidity

The acidity can be determined by titration, pH meter, or tasting.

Ad. 60: Seed: shape



Ad. 61: Time of beginning of flowering

The time of beginning of flowering is reached when 10% of the flowers are fully open.

Ad. 62: Time for harvest maturity

Japanese pear fruits ripen on the tree and do not require post-harvest ripening. The time of harvest maturity is reached when the fruit has reached its optimum flavor.

Ad. 63: Self-compatibility

Many of Japanese pear varieties are self-incompatible, and require artificial pollination with pollen from other varieties.

Self-compatibility can be determined by the ratio of fruit set by self-pollination.

Just after opening, the flowers should be self-pollinated artificially, and bagged.

After 90 days, observe the ratio shown below.

(Number of fruit set / Number of flowers artificially self-pollinated)

Self-compatible varieties show a fruiting ratio of 30% or more, and self-incompatible varieties set fruits less than 30%.

Ad. 64: Resistance to black spot (Alternaria alternata Japanese pear pathotype)

1.	Pathogen	Alternaria alternata Japanese pear pathotype
2.	Quarantine status	
3.	Host species	Japanese Pear - <i>Pyrus pyrifolia</i> (Burm. f.) Nakai var. <i>culta</i> (Mak.) Nakai
4.	Source of inoculum	MAFF (JP)
5.	Isolate	(To be added)
6.	Establishment isolate identity	resistant and susceptible controls
7.	Establishment pathogenicity	Test on susceptible plants
8.	Multiplication inoculum	
8.1	Multiplication medium	Potato dextrose agar
9.	Format of the test	
9.1	Number of plants per genotype	3
9.2	Number of replicates	See 10.4
9.3	Control varieties	Susceptible controls: Nansui, Njisseiki, Osa Nijisseiki, Shinsui Resistant controls: Hosui, Niitaka
9.5	Test facility	Petri dishes in an incubator
9.6	Temperature	25°C all day
10.	Inoculation	
10.2	2 Quantification inoculum	2.5 x 10 ⁴ spores/ml
10.3	Plant stage at inoculation	Sampling from the second to the fourth leaf on the shoot towards the base (three leaves) per plant. The first leaf is determined as the leaf that has just unfolded at the top of a new shoot.
10.4	Inoculation method	Two filter papers are moistened in petri dishes with distilled and sterilized water. Leaf disks are detachedly arranged on the papers. 4-6 drops of the spore suspension (about 40 ul per drop) are placed on each leaf.
10.7	Final observations	4 days after inoculation
11.	Observations	
11.1	Method	Visual
11.2	Observation scale	resistant = no symptoms susceptible = necrosis on the marginal zone or whole surface
11.3	Validation of test	Evaluation of variety resistance should be calibrated with results of resistant and susceptible controls.
12.	Interpretation of data in terms o UPOV characteristic states	f Absent (susceptible) [1] Present (resistant) [9]

9. <u>Literature</u>

Abe, K., Kurihara A., 1993: Species and varietal differences in scab resistance of pear. Journal of the Japanese Society for Horticultural Science. JP, PP. 789-794.

Nishio, S. et al., 2022: Marker-assisted Selection of Agronomically Important Traits in Japanese Pear Breeding Programs. Hort. Res. JP, 21(2), pp. 137-147.

Saito, T. et al., 2021: New Japanese pear cultivar 'Hoshiakari'. Journal of the NARO Research and Development (7). JP, pp. 21-28.

Saito, T. et al., 2021: New Japanese pear cultivar 'Narumi'. Journal of the NARO Research and Development (7). JP, pp. 29-37.

Kanahama, K., 2015: The fruit horticulture. Buneido Publishing Co., Ltd. Tokyo, JP, pp. 125-158.

10. <u>Technical Questionnaire</u>

TECH	NICAL (QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
				Application date: (not to be filled in by t	the applicant)
			TECHNICAL QUESTIONNAIRE	breeders' rights	
1.	Subjec	t of the Technical Question	nnaire		
	1.1.1	Botanical name	Pyrus pyrifolia (Burm. f.) Nakai		
	1.1.2	Common name	Japanese Pear		
	1.2.1	Botanical name	Pyrus ussuriensis Maxim. & Rupr.		
	1.2.2	Common name	Ussurian Pear		
	1.3.1	Botanical name	Hybrids between Pyrus pyrifolia and Pyr	us ussuriensis.	
	1.3.2	Common name			
	1.4.1	Botanical name	Species (please indicate)		
	1.4.2	Common name			
2.	Applica	int			
	Name				
	Addres	s]
	, 100100	0			
	Telenh	one No.]
	reieph				
	Fax No).			
	E-mail	address			
	Breede applica	er (if different from nt)]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
 Proposed denomination and bread Proposed denomination (if available) Breeder's reference 	eder's reference		

TECHN	ICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number:
#4.	Informa	tion on the breeding sch	neme and propagation of the variety	
	4.1	Breeding scheme		
	Variety	resulting from:		
	4.1.1	Crossing		
	(a)	controlled cross		[]
		(please state parent va	ariety)	
		() x ()
		female parent		male parent
	(b)	partially known cross		[]
		(please state parent va	ariety(ies))	
		() x ()
		female parent		male parent
	(c)	unknown cross		[]
	4.1.2	Mutation (please state parent va	ariety)	
		L		
	4.1.3	Discovery and develop (please state where an	oment Id when discovered and how developed)	
	4.1.4	Other (Please provide details	5)	

TECHNICAL (QUESTIONNAIRE	Page {x} of {y}	Reference Number:
1			
4.2	Method of propagating	the variety	
4.2.1	Vegetative propagation	n	
4.2.2	 (a) In vitro propagatio (b) Budding or grafting (c) Other (state metho 	g	
4,2,2	(Please provide details	3)	

TECH	INICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
	aracteristics of the variety to be ir Suidelines; please mark the note		rs to the corresponding characteristic in
	Characteristics	Example Var	ieties Note
5.1 (2)	Tree: growth habit		
	fastigiate		1 []
	upright	Shinsui	2 []
	spreading	Niitaka	3 []
	drooping	Chojuro	4 []
	weeping		5 []
5.2 (8)	Branch: number of spurs		
	few	Kosui	1 []
	few to medium		2 []
	medium	Hosui	3 []
	medium to many		4 []
	many	Gold Nijisseil	ki, Shinko, Shinsui 5 []
5.3 11)	One-year-old shoot: number of	axillary flower buds	
	very few		1 []
	few	Gold Nijisseil	ki, Shinsui 2 []
	medium	Kosui, Shinse	eiki 3 []
	many	Chojuro, Hos	sui 4 []
	very many		5 []
5.4 (13)	Young leaf: color of upper side		
	yellow green	Chikusui, Shi	inseiki 1 []
	greenish brown	Yakumo	2 []
	brown	Gold Nijisseil	ki, Hosui, Kosui 3 []
	red brown	Shinko, Shin	sui 4 []

TECH	INICAL QUESTIONNAIRE	Page {x} of {y} Refere	nce Number:
	Characteristics	Example Varieties	Note
5.5 (15)	Leaf blade: length		
	very short		1 []
	very short to short		2 []
	short	Hosui, Shinsui	3 []
	short to medium		4 []
	medium	Gold Nijisseiki, Kosui	5 []
	medium to long		6 []
	long		7 []
	long to very long		8 []
	very long		9 []
5.6 (30)	Fruit: weight		
	very low		1 []
	very low to low		2 []
	low	Shinsui	3 []
	low to medium		4 []
	medium	Chojuro, Gold Nijisseiki, Kosui	5 []
	medium to high		6 []
	high	Hosui, Shinko	7 []
	high to very high	Niitaka	8 []
	very high	Atago	9 []
5.7 (34)	Fruit: shape in lateral view		
	ovate		1 []
	narrow elliptic		2 []
	broad elliptic	Yakumo	3 []
	circular	Hosui	4 []
	oblate	Shinsui	5 []
	obovate	Yasato	6 []

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
	Characteristics	Example Varieties	Note
5.8 (35)	Fruit: ground color of skin		
()	not visible	Hosui, Niitaka, Shinko	1 []
	yellow		2 []
	green		3 []
	light yellow green	Yakumo	4 []
	dark yellow green	Gold Nijisseiki	5 []
5.9 (36)	Fruit: relative area of over color		
	absent or 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 []
5.10 (37)	Fruit: over color		
	orange		1 []
	orange red		2 []
	pink red	PremP109	3 []
	light red		4 []
	deep red		5 []
5.11 (38)	Fruit: relative area of russet		
	absent or very small	Gold Nijisseiki	1 []
	small		2 []
	medium	Chikusui	3 []
	large	Kosui	4 []
	very large	Hosui, Niitaka, Shinko	5 []
5.12 (39)	Fruit: color of russet		
	yellow brown	Chikusui	1 []
	yellowish red brown	Hosui, Kosui, Shinko	2 []
	red brown	Chojuro	3 []

4	1

TECH	NICAL QUESTIONNAIRE Page {x} of {y}	Reference	e Number:
	Characteristics	Example Varieties	Note
5.13 (61)	Time of beginning of flowering		
	very early		1 []
	very early to early		2 []
	early	Niitaka	3 []
	early to medium		4 []
	medium	Gold Nijisseiki, Hosui, Shinsui	5 []
	medium to late		6 []
	late	Kosui, Okusankichi	7 []
	late to very late		8 []
	very late		9 []
5.14 (62)	Time for harvest maturity		
	very early		1 []
	very early to early	Aikansui	2 []
	early	Shinsui	3 []
	early to medium		4 []
	medium	Gold Nijisseiki, Hosui	5 []
	medium to late		6 []
	late	Niitaka	7 []
	late to very late	Shinko	8 []
	very late	Okusankichi	9 []
5.15 (63)	Self-compatibility		
	absent	Gold Nijisseiki, Hosui, Kosui, Niitaka	1 []
	present	Osa Gold, Osa Nijisseiki	9 []
	not tested		
5.16 (64)	Resistance to black spot (<i>Alternaria alternata</i> Japanese pear pathotype)		
	absent	Nansui, Nijisseiki, Osa Nijisseiki, Shinsui	1 []
	present	Hosui, Kosui, Niitaka	9 []
	not tested		

42	

TECHNICAL QUESTIONNAIRE Page {X} 01 {y} Reference number.	TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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6. Similar varieties and differences from these varieties

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

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
Example	One-year-old shoot: number of lenticels	few	many
Comments			

TECHNICAL	QUESTIC	ONNAIRE	Page {x} of {y}		Reference Number:		
#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 a	7.2 Are there any special conditions for growing the variety or conducting the examination?						
	Yes [] No[]						
	(If yes, ple	ase provide de	tails)				
7.3 Other infor	rmation						
	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	s to conside	er when taking	a photograph of the candic	late variety are	:		
Correct label Good quality	 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.]							
 Pollinizer: Good pollinizers are the following varieties: 							
- Self-compa	atibility (62)		absent []	present []	not tested		
- Resistance	e to pests a	nd diseases	absent	nresent	not tested		
i) Erwinia amy ii) Physalospo iii) Phomopsis iv) Corynespo	ra piricola N fukushii Ta	Nose anaka et Endo	[] [] [] []	present [] [] [] []	[] [] [] []		

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

 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]