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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

POTATO

UPOV Code(s): SOLAN TUB

Solanum tuberosum L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Germany to be considered by the Technical Working Party for Agricultural Crops at its fifty-first session, to be held in Cambridge, United Kingdom, from 2022-05-23 to 2022-05-27

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
Solanum tuberosum L.	Potato	Pomme de terre	Kartoffel	Papa, Patata

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

ASSOCIATED DOCUMENTS

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

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

TG/23/7(proj.3) Potato, 2022-04-08

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of Solanum tuberosum L.

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

100 tubers for each growing cycle

- 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 should be in the form of two separate plantings.
- 3.1.3 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 The optimum stage of development for the assessment of each characteristic is indicated by a number in the Table of Characteristics. The stages of development denoted by each number are described in Chapter 8.

Test Design

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- 3.4.1 Each test should be designed to result in a total of at least 60 plants, which should be divided between at least 2 replicates.
- 3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.
- 3.4.3 The assessment of lightsprout characteristics should be carried out on at least 5 tubers.
- 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 10 plants or parts of plants taken from each of 10 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 1.

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"):

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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 nonlinear 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 varieties. 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, a population standard of 1% and an acceptance probability of at least 95% should be applied. In case of a sample size of 60 plants, 2 off-types are allowed. In case of a sample size of 5 tubers, no 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 seed or 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) Lightsprout: proportion of blue in anthocyanin coloration of base (characteristic 4)
 - (b) Corolla: intensity of anthocyanin coloration on inner side (characteristic 27)
 - (c) Corolla: proportion of blue in anthocyanin coloration on inner side (characteristic 28)
 - (d) Plant: time of maturity (characteristic 31)
 - (e) Tuber: color of skin (characteristic 34)
- 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. <u>Introduction to the Table of Characteristics</u>
- 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 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	1	françai	s	deutsch	español	Example Varieties Exemples Be ejemplo	Note
1	2	3			6	7			
		charae	Name of Nom du characteristics caractère en français		Name des Merkmals auf Deutsch	Nombre del carácter en español			
		states expres		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)-(e) See Explanations on the Table of Characteristics in Chapter 8.1

7 Growth stage key See Explanations on the Table of Characteristics in Chapter 8.3

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

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	QN	VG		(a)				
	Light	sprout: size						
	very s	small						1
	very s	small to small						2
	small						Laura	3
	small	to medium						4
	mediu						Diamant, Victoria	5
		ım to large						6
	large						Solist	7
	large	to very large						8
	very l	arge						9
2. (*)	PQ	VG	(+)	(a)				
	Light base	sprout: shape of						
	spher	ical					Albatros	1
	ovoid						Laura	2
	conic						Bintje, Solist	3
	broad	cylindrical					Diamant, Innovator	4
	narro	w cylindrical		.			Cecile	5
3. (*)	QN	VG		(a), (b)				
	antho	sprout: ocyanin ation of base						
		nt or very weak	••••••				Estima	1
		veak to weak						2
	weak						Solist	3
	weak	to medium						4
	mediu	ım					Arielle	5
	mediu	ım to strong						6
	stron)					Abbot, Victoria	7
	stron	g to very strong						8
	very s	strong					Agria, Red Emmalie	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4. (*)	QN	VG	(+)	(a)		1		II.
<u> </u>	propo	esprout: ortion of blue in ocyanin ration of base						
	abser	nt or low					Arielle, Solist, Victoria	1
	medi	um					Abbot	2
	high						Agria, Red Emmalie	3
5. (*)	QN	VG	(+)	(a)		1		
·	Light pube	sprout:		·				
	abser	nt or very sparse					Slaney	1
	very s	sparse to sparse						2
	spars	se					Goldmarie	3
	spars	se to medium						4
	medi	um					Albatros, Laura	5
	mediu	um to dense						6
	dense	е					Abbot	7
	dense	e to very dense						8
	very o	dense		,			Oxania	9
6.	QN	VG	(+)	(a)				
		sprout: size of tip ation to base						
	very s	small						1
	very s	small to small						2
	small						Laura	3
	small	to medium						4
	medi	um					Albatros, King Edward	5
	medi	um to large						6
	large						Abbot	7
	large	to very large						8
	very I	arge						9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7.	QN	VG	(+)	(a)				
	Lights tip	sprout: habit of						
	closed	 I					Laura	1
	closed	to intermediate						2
	interm						Arielle	3
		ediate to open						4
	open						Diamant, Solist	5
8.	QN	VG		(a), (b)				
	antho	sprout: cyanin ation of tip						
		t or very weak					Estima, Innovator	1
		eak to weak						2
	weak						Solist	3
	weak	to medium						4
	mediu	m					Laura, Spunta	5
	mediu	m to strong						6
	strong						Agria	7
	strong	to very strong						8
	very s	trong					Blaue St. Galler	9
9.	QN	VG	(+)	(a)				
	Lights pubes	sprout: scence of tip						
	absen	t or very sparse					Goldmarie	1
	very s	parse to sparse						2
	sparse	9					Laura	3
	sparse	e to medium						4
	mediu	m					Albatros	5
	mediu	m to dense						6
	dense						Abbot	7
	dense	to very dense						8
	very d	ense					Camilla	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
10 (*)	QN	VG		(a)				
	Light:	sprout: number ot tips						
	very f	ew						1
	very f	ew to few						2
	few						Estima, Solist	3
		medium						4
	mediu						Arielle, Bintje	5
	mediu	ım to many						6
	many						Innovator	7
	many	to very many						8
	very n	nany						9
11	QN	VG	(+)	(a)				
	Light:	sprout: length of Il shoots						
	very s	short						1
		short to short						2
	short						Laura, Producent	3
	short	to medium						4
	mediu	ım					Estima, Princess	5
	mediu	ım to long						6
	long	-					Spunta	7
		o very long						8
	very lo	ong						9
12	QN	VG	(+)		51-69			
	Plant	: foliage structure		_				
	stem	type	•				Agria, Estima	1
	interm	nediate type	•				Premiere	2
	leaf ty	/pe					Kennebec	3
13 (*)	QN	VG	(+)		51-69	•	•	
	Plant	growth habit						
	uprigh	nt					Victoria	1
	uprigh	nt to semi-upright						2
	semi-	upright					Desiree, Secura	3
	semi-	upright to ding						4
	sprea	ding	Ī				Solist	5

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
14 (*)	QN	VG	(+)	(b)	51-69			,
	Stem: antho	: intensity of ocyanin ation						
		nt or very weak					Estima	1
		veak to weak						2
	weak						Victoria	3
		to medium						4
	mediu						Laura, Saturna	5
		ım to strong						6
	strong)					Desiree	7
	strong	to very strong						8
	very s	strong					Blaue St. Galler, Vitelotte Noir	9
15	QN	VG		(c)	51-69			
	Leaf:	outline size						
	very s	mall						1
	very s	mall to small						2
	small						King Edward	3
	small	to medium						4
	mediu	ım					Laura	5
	mediu	ım to large						6
	large						Kennebec	7
	large	to very large						8
	very la	arge						9
16	QN	VG	(+)	(c)	51-69			_
	Leaf:	openness						
	closed	d	·				Albatros	1
	closed	d to intermediate						2
	interm	nediate					Premiere, Solist	3
	interm	nediate to open						4
	open		1				Goldmarie	5

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17	QN	VG	(+)	(c)	51-69			•
Ē	Leaf:	presence of ndary leaflets						
	very v	veak						1
	very v	veak to weak						2
	weak						Goldmarie	3
		to medium						4
	mediu						Solist	5
		ım to strong						6
	strong	,					Victoria	7
	strong	to very strong						8
	very s	strong						9
18	QN	VG	(+)		51-69			
	Leaf:	green color		:				
	very li	iaht						1
		ight to light						2
	light	ignit to light					Solist	3
		o medium					Jonat	4
	mediu						Kuras, Victoria	5
		ım to dark					Traids, violena	6
	dark						Spunta	7
		o very dark					Opuna	8
	very	-						9
19	QN	VG	(+)	(b), (c)	51-69			
10	Leaf:	intensity of ocyanin ation of midrib	(-7	(-), (-)				
	abser	nt or very weak					Solist	1
	very v	veak to weak	<u> </u>					2
	weak						Russet Burbank	3
		to medium						4
	mediu						Laura	5
	mediu	ım to strong						6
	strong	3					Romanze	7
	strong	g to very strong						8
	very s	strong	<u> </u>				Bildtstar , Roseval	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20	QN	VG	(+)	(c)	51-69			
·	leafle	nd pair of lateral ts: width in on to length						
	very r	arrow						1
	very r	arrow to narrow						2
	narro	N					Innovator, Russet Burbank	3
		w to medium						4
	mediu	ım					Desiree	5
	mediu	ım to broad						6
	broad						Cayenne	7
		to very broad						8
•	very b	road						9
21	QN	VG	(+)		51-69			
	leafle	inal and lateral ts: frequency of scence						
	abser	t or very low					Courage	1
	low							2
	mediu	ım					Goldmarie	3
	high							4
	very h						Cardinia	5
22	QN	VG	(+)	(b)	55			T
	Flower of and colors	er bud: intensity thocyanin ation						
	abser	t or very weak					Solist	1
	very v	veak to weak						2
	weak						Pompadour	3
	weak	to medium						4
	mediu	ım					Victoria	5
	mediu	ım to strong						6
	strong	J					Osprey	7
	strong	to very strong						8
	very s	trong					Blaue St. Galler, Cayenne	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
23 (*)	QN	VG	(+)		60-69		- 1	I
·	Plant inflor	: frequency of escences		·				
	abser	nt or very low					King Edward	1
		ow to low						2
	low						Arielle	3
	low to	medium						4
	mediu	ım					Laura	5
		um to high						6
	high						Agria, Innovator	7
		o very high						8
	very h	nigh					Euroresa	9
24	QN	VG	(+)	(d)	60-69			
	Inflor	escence: size						
	very s	small						1
		small to small						2
	small						Estima, Solist	3
		to medium						4
	mediu						Goldmarie	5
		to large						6
	large						Innovator, Victoria	7
	large	to very large						8
	very l	arge						9
25	QN	VG		(b), (d)	60-69			
<u> </u>	Pedu antho	ncle: intensity of ocyanin ation		i				
	abser	nt or very weak					Estima, Solist	1
	very v	veak to weak						2
	weak						Victoria	3
	weak	to meduim						4
	mediu	ım					Saturna	5
	mediu	um to strong						6
	stron	9					Desiree	7
	strong	g to very strong						8
	very s	strong					Blaue St. Galler	9

		English		français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
26	QN	VG		(d)	60-69			
	Corol	lla: size						
	very s	small						1
	very s	small to small						2
	small						Sommergold	3
	small	to medium						4
	mediu	ım					Laura	5
	mediu	ım to large						6
	large						Innovator	7
	large	to very large						8
	very la	arge					Roseval	9
27 (*)	QN	VG		(b), (d)	60-69			
	antho	lla: <u>intensity</u> of ocyanin ation on inner						
		nt or very weak					Solist	1
		weak to weak						2
	weak						Laura, Pirol, Secura	3
	weak	to medium						4
	mediu	ım					Osprey, Quadriga	5
	mediu	ım to strong						6
	strong]					Courage	7
	strong	g to very strong						8
	very s	strong		:			Ramona	9
28 (*)	QN	VG	(+)	(d)	60-69			
	Corol blue i color side	lla: proportion of in anthocyanin ation on inner						
	abser	nt or low					Laura, Osprey	1
	mediu	ım					Courage, Secura	2
	high						Pirol, Quadriga	3

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
29 (*)	QN	VG	((d)	60-69			
	antho	la: <u>extent</u> of cyanin ation on inner						
	absen	t or very small					Vitelotte Noir	1
	very s	mall to small						2
	small						Laura	3
	small	to medium						4
	mediu	ım					Pirol	5
	mediu	ım to large						6
	large						Bildtstar	7
	large t	to very large						8
	very la	arge					Courage	9
30	QN	VG			65-69	·		
	Plant:	height						
	very s	hort					Mimi	1
	short							2
	mediu	ım					Arielle, Leyla	3
	tall							4
	very ta	all					Agria, Pirol	5
31 (*)	QN	MG	(+)		97	•		
	Plant:	time of maturity						
	very e	arly					Leyla, Solist	1
	very e	arly to early						2
	early		•				Princess	3
	early to medium							4
	medium						Laura	5
	mediu	m to late						6
	late						Euroresa	7
	late to	very late						8
	very la	ate	İ				Kuras, Producent	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
32 (*)	QN	MS/VG	(+)	(e)	99	•		
	Tube	r: shape		•				
	round						Kuras	1
	short-						Courage	
	oval						Diamant, Ramona	3
	long-c						Innovator	4
	long						Spunta	5
	very le	ona					Pompadour	6
33	QN	VG		(e)	99		Тоттрасост	
				(*)				
	Tuber: depth of eyes							
	very shallow						Nadine	1
	very s	very shallow to shallow						2
	shallow						Agria, Innovator	3
	shallow to medium							4
	medium						Courage	5
	mediu	medium to deep						6
	deep	deep					Kuras, Sommergold	7
	deep	deep to very deep						8
	very c	deep					Vitelotte Noir	9
34 (*)	PQ	VG		(e)	99			
	Tube	r: color of skin						
	light y	ellow brown					Nadine	1
	yellow	yellow					Agria, Solist	2
	orang	e brown					Karo, Velur	3
	light r	light red					Bildtstar	4
	mediu	medium red					Laura	5
	dark r	dark red					Romanze	6
	red pa	red parti-colored					Cara	7
	blue v	violet					Blaue St. Galler, Vitelotte Noir	8
	blue v	violet parti-colored					Catriona, Kestrel	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
35	QN	VG		(e)	99			
•	Tuber	: texture of skin		•				
	smoot	h					Laura	1
	mediu	m					Solist	2
	rough						Ivory Russet, Russet Burbank	3
36 (*)	PQ	VG	(+)	(e)	99			L
•	Tuber eye	: color of base of		·				
	white						Nadine	1
	yellow						Agria, Solist	2
	red						Quarta, Romanze	3
	blue						Double Fun, Vitelotte Noir	4
37 (*)	PQ	VG	(+)	(e)	99			
-	Tuber	: color of flesh		•				
	white						Kuras, Russet Burbank	1
	yellow	ish white					Desiree, Estima	2
	light ye	ellow					Diamant, Solist	3
	mediu	m yellow					Bildtstar , Quarta	4
	dark yellow						Laura, Princess	5
	red						Red Emmalie	6
	red pa	rti-colored					Early Rose	7
	blue vi	iolet					Purple Majesty	8
	blue vi	iolet parti-colored					Double Fun	9

8. Explanations on the Table of Characteristics

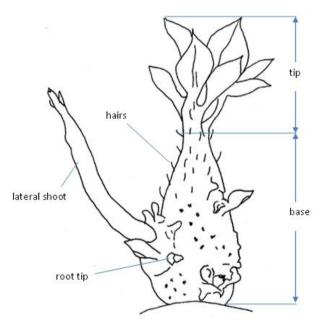
8.1 Explanations covering several characteristics

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

(a) Observations should be made on lightsprouts grown according to the following method: The spectrum and the intensity of the light source are the most important factors for the expression of lightsprouts characteristics. This spectrum is defined by the type of lamps and the voltage used. When extremes of temperature are avoided, the influence of the temperature on the speed of development is small. A good expression of the characteristics is obtained when the lightsprouts are grown in a light-sealed cabinet at room temperature under continuous light provided by small incandescent bulbs (6V AC/0.05 A) giving an intensity of 7 to 11 lux (approximately 8 bulbs per square meter, 20-30 cm above the tubers).

Observations should be made in a room with indirect day light when the characteristics 7 (habit of tip) and 11 (length of lateral shoots) have reached their maximum differentiation. Example varieties should be used to determine the optimal stage for observations.

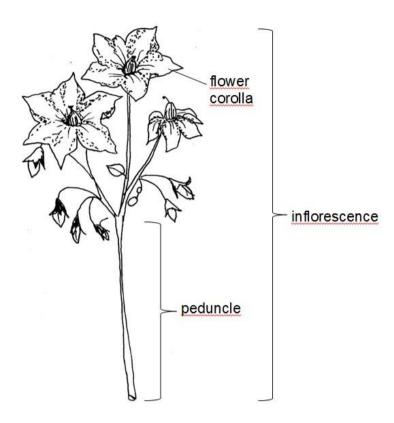
The development of lightsprouts depends on the time of test after harvest. Development increases with age of tubers. If the test is started already about 100 days after harvest, the appropriate stage for observations might be reached only after about 14 weeks due to dormancy and/or slow development. If the test is started later, the appropriate stage for observations might be reached after a shorter period.



(b) The intensity of the anthocyanin coloration should be observed. The extent and the distribution should not be considered.

(c) Observations should be made on fully developed leaves from the center of the plant. One leaf from each of 10 plants should be picked from a main stem midway between the top and the bottom of the plant.

(d)

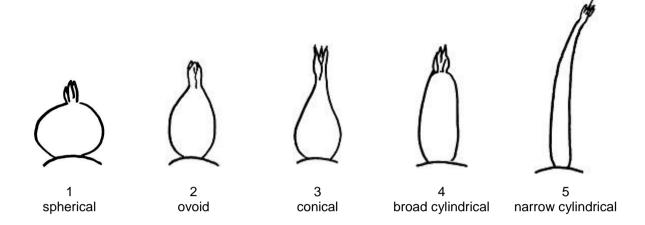


Observations of flower color should be made on the inner side of freshly opened flowers, the best moment is early in the morning.

(e) Observations should be made within two weeks after harvest. Tubers should be shielded from sunlight as this may have an effect on the color.

8.2 Explanations for individual characteristics

Ad. 2: Lightsprout: shape of base



Ad. 4: Lightsprout: proportion of blue in anthocyanin coloration of base

The color of anthocyanin results from a red and a blue component. If the proportion of blue is low the anthocyanin appears red-violet. If the proportion of blue is high the anthocyanin appears blue-violet.

Ad. 5: Lightsprout: pubescence of base

It is recommended to use a magnifier.

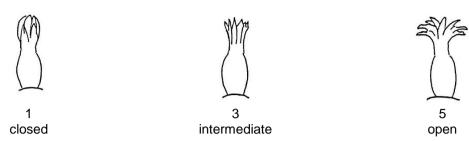
Pubescence is not always evenly distributed over the lightsprout. The total amount of pubescence of the base should be averaged over the total area of the lightsprout base.

Ad. 6: Lightsprout: size of tip in relation to base

The size of the tip should be examined in relation to the size of the base. The following table provides the note that would correspond to the ratio of the size of tip to size of base.

note	ratio size of tip : size of base
1	10:90
2	20:80
3	30:70
4	40:60
5	50:50
6	60:40
7	70:30
8	80:20
9	90:10

Ad. 7: Lightsprout: habit of tip

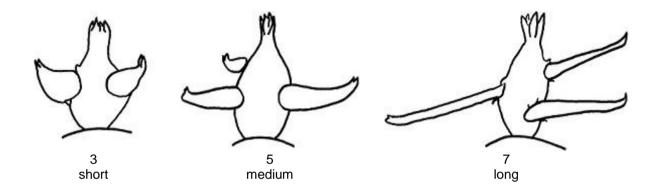


Ad. 9: Lightsprout: pubescence of tip

It is recommended to use a magnifier.

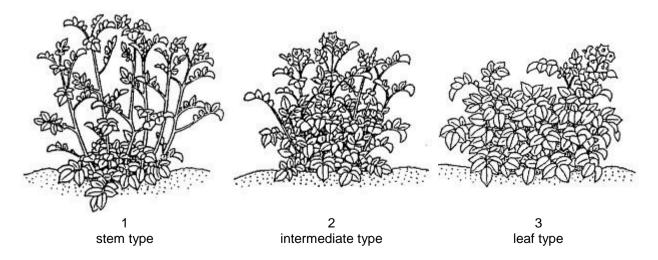
Pubescence is not always evenly distributed over the lightsprout. The total amount of pubescence of the tip should be averaged over the total area of the lightsprout tip.

Ad. 11: Lightsprout: length of lateral shoots

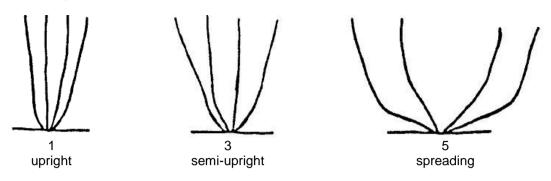


Ad. 12: Plant: foliage structure

Stem type: foliage open, stems clearly visible
Intermediate type: foliage half open, stems partly visible
Leaf type: foliage closed, stems not or hardly visible



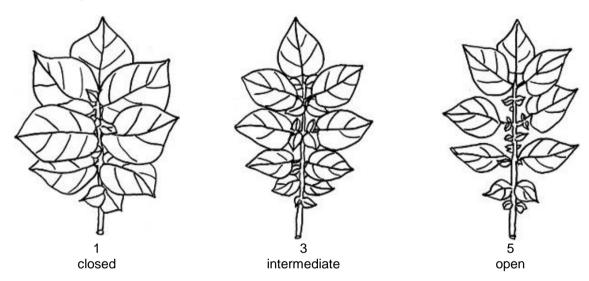
Ad. 13: Plant: growth habit



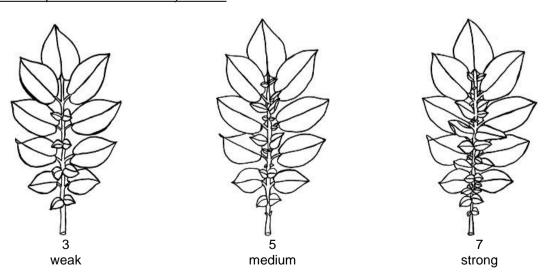
Ad. 14: Stem: intensity of anthocyanin coloration

Observations should be made on the lower three quarters of the stems.

Ad. 16: Leaf: openness



Ad. 17: Leaf: presence of secondary leaflets



Ad. 18: Leaf: green color

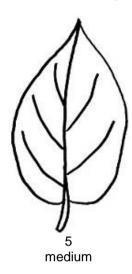
Observations should be made on fully developed leaves in the center of the plant, preferably not in direct sunlight.

Ad. 19: Leaf: intensity of anthocyanin coloration of midrib

Observations should be made on the upper sider of the leaf.

Ad. 20: Second pair of lateral leaflets: width in relation to length

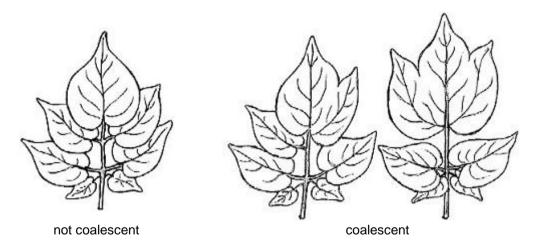






Ad. 21: Terminal and lateral leaflets: frequency of coalescence

Observations should be made on fully developed leaves on the whole plant.



Ad. 22: Flower bud: intensity of anthocyanin coloration

The observations should be made on fully developed buds before the corolla is visible.

Ad. 23: Plant: frequency of inflorescences

During the flowering period the plots are observed several times and the frequency is scored. The highest score reached is noted as the final state of expression.

Ad. 24: Inflorescence: size

The general impression of the whole plot is observed.

Ad. 28: Corolla: proportion of blue in anthocyanin coloration on inner side

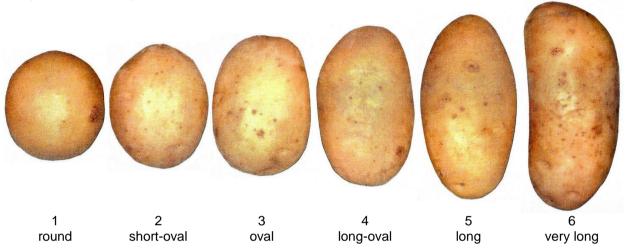
The color of anthocyanin results from a red and a blue component. If the proportion of blue is low the anthocyanin appears red-violet. If the proportion of blue is high the anthocyanin appears blue-violet.

Ad. 31: Plant: time of maturity

Time of maturity is reached when 80% of the leaves are dead.

Ad. 32: Tuber: shape

The predominant shape should be observed.



Ad. 36: Tuber: color of base of eye

Not applicable for varieties with particolored skin (note 7 and 9 in characteristic 34: Tuber: color of skin).

Ad. 37: Tuber: color of flesh

Observations should be made on freshly cut tubers. Already a few minutes after cutting the tuber, the flesh may be discolored.

8.3 Phenological growth stages and BBCH-identification keys of potato (Meier et al., 1997)

Principal growth stage 1: Leaf development Principal growth stage 2: Formation of basal side shoots below and above soil surface (main stem) Principal growth stage 3: Main stem elongation (crop cover) Principal growth stage 4: Tuber formation Principal growth stage 5: Inflorescence (cyme) emergence 51 501 First individual buds (1–2 mm) of first inflorescence visible (main stem) 55 505 Buds of first inflorescence extended to 5 mm 59 509 First flower petals of first inflorescence visible Principal growth stage 6: Flowering 60 600 First open flowers in population 61 601 Beginning of flowering about 10% of flowers in the first inflorescence open (main stem) 65 605 Full flowering: 50% of flowers in the first inflorescence open 66 608 80% of flowers in the first inflorescence open 67 609 End of flowering in the first inflorescence	Principal growth stage 1: Leaf development Principal growth stage 2: Formation of basal side shoots below and above so surface
Principal growth stage 1: Leaf development Principal growth stage 2: Formation of basal side shoots below and above soil surface	Principal growth stage 1: Leaf development Principal growth stage 2: Formation of basal side shoots below and above so surface
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Principal growth stage 7: Development of fruit	68 608 80% of flowers in the first inflorescence open
	···
	Principal growth stage 7: Development of fruit
Principal growth stage & Pipening of fruit and sood	
	Principal growth stage 8: Dinaning of fruit and sood

Principal growth stage 9: Senescence

91	901	Beginning of leaf yellowing
93	903	Most of the leaves yellowish
95	905	50% of the leaves brownish
97	907	Leaves and stem dead, stems bleached and dry
99	909	Harvested product

9. <u>Literature</u>

Meier, U. (ed.), 1997: Growth stages of mono- and dicotyledonous plants / Entwicklungsstadien mono- und dikotyler Pflanzen / Estadios de las plantas mono- y dicotiledóneas / Stades phénologiques des mono- et dicotylédones cultivées: BBCH-Monograph. Blackwell Wissenschaftsverlag, Berlin, Wien.

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10. <u>Technical Questionnaire</u>

TECHN	NICAL Q	UESTIONNAIRE		Page {x} of {y}	Reference Number:
					Application date: (not to be filled in by the applicant)
				CHNICAL QUESTIONNA	IRE for plant breeders' rights
1.	Subject	t of the Technical Question	nnai	re	
	1.1	Botanical name	So	lanum tuberosum L.	
	1.2	Common name	Po	tato	
2.	Applica	nt			
	Name				
	Addres	s			
	Telepho	one No.			
	Fax No				
	E-mail	address			
	Breede applica	r (if different from nt)			
3.	Propos	ed denomination and bree	der	's reference	
	Propos	ed denomination able)			
	Breede	r's reference			

TECHN	<u>IICAL Q</u>	UESTIONNAIRE	Page {x} of {y}		Reference Number:	
#4.	Informa	tion on the breeding scher	me and propagation of	the var	riety	
	4.1	Breeding scheme				
	Variety	resulting from:				
	4.1.1	Crossing				
	(a)	controlled cross				[]
		(please state parent varie	ety)			
		()	х	()
		female parent			male parent	
	(b)	partially known cross				[]
		(please state known pare	ent variety(ies))			
		()	x	()
		female parent			male parent	
	(c)	unknown cross				[]
	4.1.2	Mutation (please state parent varie	ety)			[]
	4.1.3	Discovery and developm (please state where and	ent when discovered and h	ow de	veloped)	[]
	4.1.4	Other (Please provide details)				[]

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TECHNICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number	
4.2	Method of propagating the	variety		
4.2.1	Vegetative propagation			
(a) (b)	Tuber Other (state method)			[]
4.2.2	Other			[]
	(Please provide details)			

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

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

	Characteristics	Example Varieties	Note
5.1	Lightsprout: proportion of blue in anthocyanin coloration of		
(4)	base		
	absent or low	Arielle, Solist, Victoria	1[]
	medium	Abbot	2[]
	high	Agria, Red Emmalie	3[]
5.2 (23)	Plant: frequency of inflorescences		
	absent or very low	King Edward	1[]
	very low to low		2[]
	low	Arielle	3[]
	low to medium		4[]
	medium	Laura	5[]
	medium to high		6[]
	high	Agria, Innovator	7[]
	high to very high		8[]
	very high	Euroresa	9[]
5.3 (27)	Corolla: intensity of anthocyanin coloration on inner side		
	absent or very weak	Solist	1[]
	very weak to weak		2[]
	weak	Laura, Pirol, Secura	3[]
	weak to medium		4[]
	medium	Osprey, Quadriga	5[]
	medium to strong		6[]
	strong	Courage	7[]
	strong to very strong		8[]
	very strong	Ramona	9[]
5.4 (28)	Corolla: proportion of blue in anthocyanin coloration on inner side		
, ,	absent or low	Laura, Osprey	1[]
	medium	Courage, Secura	2[]
	high	Pirol, Quadriga	3[]

	Characteristics	Example Varieties	Note
5.5 (31)	Plant: time of maturity		
(01)	very early	Leyla, Solist	1[]
	very early to early		2[]
	early	Princess	3[]
	early to medium		4[]
	medium	Laura	5[]
	medium to late		6[]
	late	Euroresa	7[]
	late to very late		8[]
	very late	Kuras, Producent	9[]
5.6	Tuber: shape		
(32)	round	Kuras	1[]
	short-oval	Courage	2[]
	oval	Diamant, Ramona	3[]
	long-oval	Innovator	4[]
	long	Spunta	5[]
	very long	Pompadour	6[]
5.7 (34)	Tuber: color of skin		
(•.,	light yellow brown	Nadine	1[]
	yellow	Agria, Solist	2[]
	orange brown	Karo, Velur	3[]
	light red	Bildtstar	4[]
	medium red	Laura	5[]
	dark red	Romanze	6[]
	red parti-colored	Cara	7[]
	blue violet	Blaue St. Galler, Vitelotte Noir	8[]
	blue violet parti-colored	Catriona, Kestrel	9[]
5.8 (36)	Tuber: color of base of eye		
(,	white	Nadine	1[]
	yellow	Agria, Solist	2[]
	red	Quarta, Romanze	3[]
	blue	Double Fun, Vitelotte Noir	4[]

	Characteristics	Example Varieties	Note
5.9 (37)	Tuber: color of flesh		
	white	Kuras, Russet Burbank	1[]
	yellowish white	Desiree, Estima	2[]
	light yellow	Diamant, Solist	3[]
	medium yellow	Bildtstar, Quarta	4[]
	dark yellow	Laura, Princess	5[]
	red	Red Emmalie	6[]
	red parti-colored	Early Rose	7[]
	blue violet	Purple Majesty	8[]
	blue violet parti-colored	Double Fun	9[]

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TECHNICAL QUESTIONNAIRE		Page {x} of {y}		Reference Number:			
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 Characteristic your candidate candidate variety from the similar to your candidate		variety differs	Describe the expression of the characteristic(s) for the similar variety(ies)		Describe the expre the characteristic(s) candidate var) for your	
Example	Tuber: s	shape	short-oval		long-oval		
Comments:							

TECHN	NICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number:			
ш	A 1 1:4:	1.6	1 2 2 2 2				
#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 i	nformation					

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TEC	HNICA	AL QUE	STIONNAIRE	Page {x} of {y}	Refe	rence Number:		
8.	Autho	orization	for release					
	(a)							
		Yes	[]	No []				
	(b)	Has su	uch authorization bee	en obtained?				
		Yes	[]	No []				
	If the	answer	to (b) is yes, please	attach a copy of the au	thorization.			
9. In	formati	ion on pla	ant material to be ex	amined or submitted fo	r examination			
9.2 char has	The place racterism	lant mate stics of the gone such your kno	erial should not ha e variety, unless the n treatment, full deta wledge, if the plant r	rowth phases of a tree, ve undergone any tre competent authorities ills of the treatment mu naterial to be examined virus, bacteria, phytopla	eatment which allow or request be given. It has been su	lest such treatment. n this respect, pleas	If the plant material	
	(b)	Ch	nemical treatment (e	.g. growth retardant, pe	sticide)	Yes []	No []	
	(c)	Tis	ssue culture			Yes []	No []	
	(d)	Ot	her factors			Yes []	No []	
	Ple	ease prov	ride details for where	you have indicated "yo	es".			
10.	 I he	ereby de	clare that, to the bes	t of my knowledge, the	information p	rovided in this form is	s correct:	
	Ар	plicant's	name					
	Si	gnature				Date		

[End of document]