

UPOV

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

WILLOW

(Salix.)

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names: *

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Salix</i> L.	Willow	Saule	Weide	Sauce

ASSOCIATED DOCUMENTS

These guidelines should be read in conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (hereinafter referred to as the "General Introduction") and its associated "TGP" documents.

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

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1. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Salix* L. of the family Salicaceae.

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 hardwood cuttings with a diameter of at least 1 cm and a length of 20 cm.

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

30 hardwood cuttings
with a diameter of at least 1 cm and a length of 20 cm.

2.4 The cuttings should be taken from one -year-old main shoots from stools. If the applicant submits distinguishing characteristics, which can only be observed on adult trees, they should indicate to the authorities the location of at least one adult tree of the variety on which these characteristics can be observed. Nevertheless, if the applicant does not submit such characteristics, it is still recommended that they enable the authorities to make observations on adult trees as this can facilitate the examination and shorten the testing period.

2.5 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.6 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Duration of Tests*

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

3.2 *Testing Place*

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

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 following growing conditions are recommended:

Time of submission of plant material:	second half of March (Northern Hemisphere)
Planting:	beginning of April; in the open; planting distance 150 x 150 cm; 2 cuttings are planted per planthole and one of them is removed after beginning of growth to have one growing plant
Soil:	sandy, humic soil
Fertilization:	according to soil analysis

3.4 *Test Design*

3.4.1 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.

3.4.2 Each test should be designed to result in a total of at least 10 plants.

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

Unless otherwise indicated, all observations determined by measuring or counting should be made on 10 plants or parts taken from each of 10 plants.

3.6 *Additional Tests*

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

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 *General Recommendations*

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

4.1.2 *Consistent Differences*

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

4.1.3 Clear Differences

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

4.2 Uniformity

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

4.2.2 For the assessment of uniformity a population standard of 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 tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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 is aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where reproduced at different locations, can be used, either individually or in combination with others 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 trials so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

(a) Plant:sex(characteristic 1)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

6.2 *States of Expression and Corresponding Notes*

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

6.3 *Types of Expression*

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

6.4 *Example Varieties*

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

6.5 *Legend*

(*) Asterisked characteristic –see Section 6.1.2

QL Qualitative characteristic –see Section 6.3

QN Quantitative characteristic –see Section 6.3

PQ Pseudo-Qualitative characteristic –see Section 6.3

(a)-(d) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8, Section 8.2

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tablades caracteres

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. (a) Plant:sex		Plante:sexe	Pflanze:Geschlecht	Planta:sexo		
QL	dioecious female	dioïque femelle	zweihäusig weiblich	dioico femenino	Tora	1
	dioecious male	dioïque mâle	zweihäusig männlich	dioico masculino	Björn	2
	monoecious unisexual	monoïque unisexuée	einhäusig eingeschlechtlich	monoico unisexual		3
	monoecious hermaphrodite	monoïque hermaphrodite	einhäusig zwittrig	monoico hermafrodita		4
2. (a) Plant:spring foliation		Plante: débourrement	Pflanze: Frühjahrsaubtrieb	Planta:folia ción en primavera		
QN	very early	très précoce	sehr früh	muy temprana	I -3 -58	1
	early	précoce	früh	temprana	Godesberg	3
	medium	moyen	mittel	media	Metz	5
	late	tardif	spät	tardía	F -65 -02	7
	very late	très tardif	sehr spät	muy tardía	Mangahn	9
3. (b) Main shoot:attitude		Pousse principale: port	Haupttrieb:Haltung	Ramaprinzipal: porte		
PQ	straight	droit	gerade	recto	Bredevoort	1
	slightly curved	légèrement flexueux	schwach gebogen	ligeramente curvado	I -3 -58	2
	curved	flexueux	gebogen	curvado	Mittlerer InnV	3
	strongly curved	fortement flexueux	stark gebogen	muy curvado	75/64(<i>S.fragilis</i> L.)	4
	sinuous	sinueux	geschlängelt	sinuoso		5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4.	(b) Mainshoot: color in (c) the middle third (sunnyside)	Pousse principale: couleur autiers moyen (face enseillée)	Haupttrieb: Farbe im mittleren Drittel (Sonnenseite)	Ramaprinzipal: color en el tercio medio (parte soleada)		
PQ	yellow	jaune	gelb	amarillo		1
	orange	orange	orange	naranja	Gelbe Dotterweide	2
	grey	gris	grau	gris		3
	greygreen	grisvert	graugrün	verdegris		4
	lightgreen	vertclair	hellgrün	verdeclaro	Graupa34	5
	mediumgreen	vertmoyen	mittelgrün	verdemedio	259/64 (S.x <i>smithiana</i> Wild.)	6
	darkgreen	vertfoncé	dunkelgrün	verdeoscuro	Loden	7
	browngreen	brunvert	braungrün	marrónverdoso	I-3 -58	8
	greybrown	brungris	graubraun	marróngrisáceo		9
	redbrown	brunrouge	rotbraun	marrónrojizo	Altenstadt4	10
	brown	brun	braun	marrón	Straubinger, BaumweideII	11
5.	(b) Mainshoot: (c) hairiness	Pousse principale: pilosité	Haupttrieb: Behaarung	Ramaprinzipal: vellosidad		
QN	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Tordis	1
	weak	faible	gering	débil	Björn	3
	medium	moyenne	mittel	media	Eva	5
	strong	forte	stark	fuerte	Nils	7
	very strong	très forte	sehr stark	muy fuerte		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6.	(b) Mainshoot: protrusion of lenticel	Pousse principale: protubérance de la lenticelle	Haupttrieb: Hervorstehender Lentizelle	Ramaprinicipal: protuberancia de lenticelas		
(+)						
QN	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy pequeña		1
	weak	faible	gering	pequeña		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	grande		7
	very strong	très forte	sehr stark	muy grande		9
7.	(b) Mainshoot: color of (c) leaf bud	Pousse principale: couleur du bourgeon à feuilles	Haupttrieb: Farbe der Blattknospe	Ramaprinicipal: color de la yema		
PQ	light green	vert clair	hellgrün	verde claro		1
	green	vert	grün	verde		2
	greenish brown	brun verdâtre	grünlichbraun	marrón verdoso		3
	brown	brun	braun	marrón		4
	reddish brown	brun rougeâtre	rötlichbraun	marrón rojizo		5
8.	(b) Mainshoot: (c) hairiness of leaf bud	Pousse principale: pilosité du bourgeon à feuilles	Haupttrieb: Behaarung der Blattknospe	Ramaprinicipal: vellosidad de la yema		
QN	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte		7
	very strong	très forte	sehr stark	muy fuerte		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9. (b)	Mainshoot: numberofbranches longerthan5cm	Pousseprincipale: nombrederameaux deplusde5cmde long	Haupttrieb:Anzahl derZweige, die längerals5cmsind	Ramaprincipal: númerode ramasde longitudsuperiora 5 cm		
QN	absentorveryfew	nuloutrèspetit	fehlendodersehr gering	ausenteomuybajo	Altenstadt4	1
	few	petit	gering	bajo	MittlererInnIII	3
	medium	moyen	mittel	medio	Bredevoort	5
	many	grand	groß	alto	Belders	7
	verymany	trèsgrand	sehrgroß	muyalto	I -3 -58	9
10. (b)	Branch:angle betweenfirst5cmof branchandmain shootinmiddle thirdofmainshoot	Rameau:angleentre les5premiers centimètresdu rameauetlapousse principaleautiers moyendel apousse principale	Zweig:Winkel zwischenenersten 5cmdesZweigsund demHaupt -triebim mittlerenDritteldes Haupt-triebes	Rama:ánguloentre losprimeros 5cmde laramaylarama principaleneltercio mediodelarama principal		
QN	verysmall	trèspetit	sehrklein	muypequeño		1
	small	petit	klein	pequeño	Lievelde	3
	medium	moyen	mittel	medio		5
	large	grand	groß	grande	259/64(S.xs. Willd.)	7
	verylarge	trèsgrand	sehrgroß	muygrande		9
11. (b)	Branch:attitude	Rameau:port	Zweig:Haltung	Rama:porte		
PQ	curvedup	incurvéverslehaut	aufwärtsgebogen	curvadahaciaarriba		1
	straight	droit	gerade	recta		2
	drooping	retombant	überhängend	colgante		3
	firstcurveddown, thencurvedup	incurvéverslebas, puisverslehaut	erstabwärts,dann aufwärtsgebogen	curvadaprimerio haciaabajoyluego haciaarriba		4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.	(b) Branch:color (c) (sunnyside)	Rameau:couleur (faceensoleillée)	Zweig:Farbe (Sonnenseite)	Rama:color(partesoleada)		
PQ	yellowgreen	vertjaune	gelbgrün	verdeamarillento		1
	greygreen	grisvert	graugrün	verde-gris		2
	green	gris	grün	verde		3
	greybrown	brungris	graubraun	marróngrisáceo		4
	redbrown	brunrouge	rotbraun	marrónrojizo	Boberg	5
	brown	brun	braun	marrón		6
13.	(d) Leafblad e:lengthof midrib	Limbe:longueurde lanervure principale	Blattspreite:Länge derMittelrippe	Limbo:longituddel nerviocentral		
QN	veryshort	trèscourte	sehrkurz	muypequeño		1
	short	courte	kurz	pequeño		3
	medium	moyenne	mittel	medio		5
	long	longue	lang	grande		7
	verylong	trèslongue	sehrlang	muygrande		9
14.	(d) Leafblade:width	Limbe:largeur	Blattspreite:Breite	Limbo:anchura		
QN	verynarrow	trèsétroit	sehrschmal	muyestrecho		1
	narrow	étroit	schmal	estrecho		3
	medium	moyen	mittel	medio		5
	broad	large	breit	ancho		7
	verybroad	trèslarge	sehrbreit	muyancho		9
15.	(d) Leafblade:position ofmaximumwidth	Limbe:positionde lalargeurmaximale	Blattspreite: Positionder maximalenBreite	Limbo:posicióndel anchomáximo		
PQ	belowthemiddle	endessousdumilieu	unterhalbderMitte	debajodelamitad		1
	approximatelyatthe middle	àpeuprèsaumilieu	etwainderMitte	aproximadamenteen lamitad		2
	abovethemiddle	au-dessusdumilieu	oberhalbderMitte	encimadelamitad		3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16.	(d) Leafblade:shape of base	Limbe:formedela base	Blattspreite:Form derBasis	Limbo:formadela base		
(+)						
PQ	acuminate	acuminée	zugespitzt	acuminada		1
	acute	aiguë	spitz	aguda		2
	rounded	arrondie	abgerundet	redondeada		3
	obtuse	obtuse	stumpf	obtusa		4
	truncate	tronquée	abgestumpft	truncada		5
	cordate	cordée	herzförmig	cordiforme		6
17.	(d) Leafblade:color of upper side	Limbe:couleur de la face supérieure	Blattspreite:Farbe der Oberseite	Limbo:color del lado superior		
PQ	yellowgreen	vertjaune	gelbgrün	amarilloverdoso		1
	lightgreen	vertclair	hellgrün	verdeclaro		2
	mediumgreen	vertmoyen	mittelgrün	verdemedio		3
	darkgreen	vertfoncé	dunkelgrün	verdeoscuro		4
	greengreen	grisvert	graugrün	verde-gris		5
	bluegreen	bleuvert	blaugrün	verdeazulado		6
	redgreen	vertrouge	rotgrün	verderojizo		7
18.	(d) Leafblade:hairiness of upper side	Limbe:pilosité de la face supérieure	Blattspreite:Behaarung der Oberseite	Limbo:vellosidad del lado superior		
QN	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte		7
	very strong	très forte	sehr stark	muy fuerte		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (d)	Leafblade: hairiness of flower side	Limbe: pilosité de la face inférieure	Blattspreite: Behaarung der Unterseite	Limbo: velloso idad del lado inferior		
QN	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte		7
	very strong	très forte	sehr stark	muy fuerte		9
20.	Petiole: length	Pétiole: longueur	Blattstiel: Länge	Pecíolo: longitud		
QN	very short	très court	sehr kurz	muy corto		1
	short	court	kurz	corto		3
	medium	moyen	mittel	medio		5
	long	long	lang	largo		7
	very long	très long	sehr lang	muy largo		9
21.	Petiole: color of upper side	Pétiole: couleur de la face supérieure	Blattstiel: Farbe der Oberseite	Pecíolo: color del lado superior		
PQ	yellowgreen	vert jaune	gelbgrün	verde amarillento		1
	green	vert	grün	verde		2
	redgreen	vert rouge	rotgrün	verde rojizo		3
	violetgreen	vert violet	violettgrün	verde violeta		4
22.	Stipule: length	Stipule: longueur	Nebenblatt: Länge	Estípula: longitud		
QN	very short	très court	sehr kurz	muy corta		1
	short	court	kurz	corta		3
	medium	moyen	mittel	media		5
	long	long	lang	larga		7
	very long	très long	sehr lang	muy larga		9

	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
23.	Stipule:type	Stipule:type	Nebenblatt:Typ	Estípula:tipo		
(+)						
PQ	type1	type1	Typ1	tipo1		1
	type2	type2	Typ2	tipo2		2
	type3	type3	Typ3	tipo3		3

8. ExplanationsontheTableofCharacteristics

8.1 *Explanationscoveringseveralcharacte ristics*

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

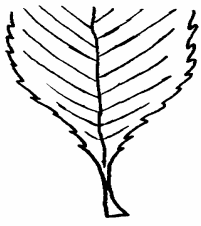
- (a) All observations on the plant sex and spring foliation should be made at beginning of growth after winter dormancy.
- (b) All observations on the main shoot and the branches should be made in autumn.
- (c) Hairiness and color should be observed at 20 cm from the tip of the main shoot.
- (d) All observations on the leaf should be made in the middle of the growing period on leaves of the middle third of the main shoot.

8.2 *Explanationforindividualcharacteristics*

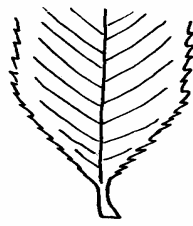
Add.6:Mainshoot:protrusionoflenticel

All observations on the lenticels should be made in the observed middle third of the main shoot.

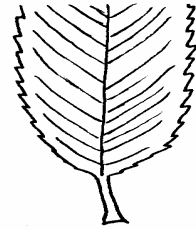
Ad.16:Leafblade:shapeofbase



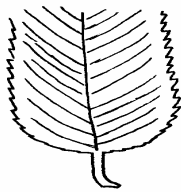
1
acuminate



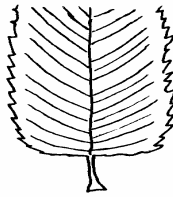
2
acute



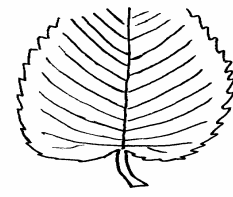
3
rounded



4
obtuse



5
truncate

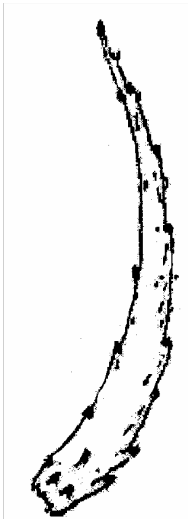


6
cordate

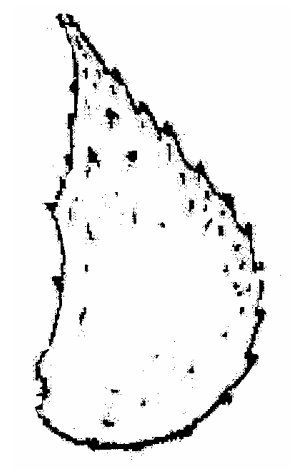
Ad.23:Stipule:type



type1



type2



type3

9. Literature

Newsholme, Christopher "Willows, the genus Salix." London, B. T. Batsford Ltd., Great Britain,1992.

Schiechtel, H.M. "Weiden in der Praxis" Patzer Verlag, Hannover, 1992.

10. TechnicalQuestionnaire

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights		
1. SubjectoftheTechnicalQuestionnaire		
1.1 LatinName	<input type="text" value="Salix."/>	
1.2 CommonName	<input type="text" value="Willow"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
TelephoneNo.	<input type="text"/>	
FaxNo.	<input type="text"/>	
E-mailaddress	<input type="text"/>	
Breeder(ifdifferentfromapplicant)	<input type="text"/>	
3. Proposeddenominationandbreeder'sreference		
Proposeddenomination (ifavailable)	<input type="text"/>	
Breeder'sreference	<input type="text"/>	

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
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4. Informationonthebreedingschemeandpropagationofthevariety

4.1 BreedingScheme

Varietyresultingfrom:

4.1.1 Crossing

- (a) controlledcross
(pleasestateparentvarieties)
- (b) partiallyun knowncross
(pleasestateknownparentvariety(ies))
- (c) totallyunknowncross

4.1.2 Mutation (pleasestateparentvariety)

4.1.3 Discovery (pleasestatewhere,whenandhowdeveloped)

4.1.4 Other (pleaseprovidedeta ils)

4.2 MethodofPropagatingtheVariety

- (a) cuttings
- (b) *invitro* propagation
- (c) other(statemethod)

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

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

Yes No

(If yes, please provide details)

7.2 Special conditions for the examination of the variety

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

Yes No

7.2.2 If yes, please give details:

7.3 Other information

A representative color photograph of the variety should accompany the Technical Questionnaire.

8. Authorization for release

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

Yes No

(b) Has such authorization been obtained?

Yes No

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

9. 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]