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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

COCKSFOOT

UPOV Code(s): DCTLS GLO

Dactylis glomerata L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from France to be considered by the Technical Working Party for Agricultural Crops at its fiftieth session, to be held in Arusha, United Republic of Tanzania, from 2021-06-21 to 2021-06-25

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
Dactylis glomerata L.	Cocksfoot, Orchard Grass	Dactyle	Knaulgras	Dactilo, Pasto ovillo

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.]

TA	BLE O	F CONTENTS	PAGE			
1.	SUBJE	CT OF THESE TEST GUIDELINES	<u>3</u>			
2.	MATE	RIAL REQUIRED	<u>3</u>			
3.	METH	OD OF EXAMINATION	<u>3</u>			
	3.1 3.2 3.3 3.4 3.5	Number of Growing Cycles	3 3 3 5 5 5			
4.	ASSES	SSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY	<u>5</u>			
	4.1 4.2 4.3	Distinctness	<u>5</u> <u>6</u> <u>6</u>			
5.	GROU	PING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL	<u>7</u>			
6.	INTRO	DUCTION TO THE TABLE OF CHARACTERISTICS	<u>7</u>			
	6.1 6.2 6.3 6.4 6.5	Categories of Characteristics States of Expression and Corresponding Notes Types of Expression Example Varieties Legend	7 7 7 7 8			
7.		OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CTERES	<u>9</u>			
8.	EXPLA	NATIONS ON THE TABLE OF CHARACTERISTICS	<u>17</u>			
	8.1 8.2	Explanations covering several characteristics	<u>17</u> <u>19</u>			
9.	LITER	ATURE	<u>21</u>			
10	TECHNICAL QUESTIONNAIRE					

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of Dactylis glomerata L.

2. Material Required

- 2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.
- 2.2 The material is to be supplied in the form of seeds.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

1 kg.

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

- 2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

- 3.1 Number of Growing Cycles
- 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.
- 3.3.3 The recommended type of plot in which to observe the characteristic is indicated by the following key in the Table of Characteristics:

A: spaced plants B: row plots

C: special tests

- 3.4 Test Design
- 3.4.1 Spaced plants: Each test should be designed to result in at least 60 plants, which should be divided between at least 2 replicates.
- 3.4.2 Row plots: Each test should be designed to result in at least 300 plants, which should be divided between at least 2 replicates.
- 3.4.3 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.
- 3.5 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 60 plants or parts of plants taken from each of 60 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"):

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 seed-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 The assessment of uniformity should be according to the recommendations for cross-pollinated varieties in the General Introduction.
- 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 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) Ploidy (characteristic 1)
 - (b) Plant: time of inflorescence emergence (characteristic 9)
 - (c) Stem: length (characteristic 14)
- 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 pseudo-qualitative) is provided in the General Introduction.

6.4 Example Varieties

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

6.5 Legend

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

1 Characteristic number

2 (*) Asterisked characteristic – see Chapter 6.1.2

3 Type of expression

QL Qualitative characteristic — see Chapter 6.3
QN Quantitative characteristic — see Chapter 6.3
PQ Pseudo-qualitative characteristic — see Chapter 6.3

4 Method of observation (and type of plot, if applicable)

MG, MS, VG, VS – see Chapter 4.1.5

5 (+) See Explanations on the Table of Characteristics in Chapter 8.2

6 (a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1

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

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

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
1. (*)	QL	MG C	(+)					
	Ploid	· ly						
	diploi	d					Barmedal	2
	tetrap						Beluga	4
2.	QN	VG B			20-29			
	Leaf:	width		. i				
		narrow						1
	very r	narrow to narrow						2
	narro						Barmedal	3
	narro	w to medium						4
	medi						Galibier	5
	medi	um to wide						6
	wide						Oberweihst, Paykar	7
	wide	to very wide						8
	very \	wide						9
3.	QN	VG B/VS A	(+)					
	form	: tendency to inflorescences out vernalization						
		nt or very weak					RGT Beverly	1
	absent or very weak to weak							2
	weak weak to medium medium						Barmedal, Oberweihst	3
								4
							Bartyle	5
	medi	um to strong						6
	stron	g					Bacchus, Inia le Oberon	7
	stron	g to very strong	<u> </u>					8
	very	strong	<u> </u>					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
4.	QN	VG B/VS A	(a)	20-29	·	•	
į	Plant:	growth habit ut vernalization	·				
	erect						1
	erect t	to semi-erect					2
	semi-	erect				Bacchus	3
	semi-e						4
		ediate				Beluga	5
	interm	ediate to semi- ate					6
	semi-p	orostrate				Bargère, Priekulu 30	7
	semi-p	prostrate to ate					8
	prostra	ate				Laban	9
5.	QN	MS A/VG B		20-29			· · ·
	Plant: witho	natural height ut vernalization					
	very s	hort					1
	very s	hort to short					2
	short					Oberweihst	3
		o medium					4
	mediu					Barmedal	5
	mediu	m to tall					6
	tall					Bolide	7
	tall to	very tall					8
	very ta	all					9
6.	QN	VG B/VS A		20-29			
	green	intensity of color without lization					
	very li	ght					1
	very li	ght to light					2
	light					Bacchus, Mobite	3
	light to	o medium					4
	mediu	m				Bargère	5
		m to dark					6
	dark					Lupré	7
	dark to	o very dark					8
	very d	ark					9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
7.	QN	VG B/VS A		(a)	30-39			
	Plant:	growth habit vernalization)						
	erect							1
	erect	to semi-erect						2
	semi-	erect				semierecto	Lucharm	3
		erect to nediate						4
	interm	nediate						5
	interm	nediate to semi- ate						6
		prostrate					Ambassador	7
	semi- _l prostr	prostrate to ate						8
	prostr	ate					Laban	9
8.	QN	VG B/VS A			30-39			
	green	intensity of color (after lization)						
	very li	ght						1
	very li	ght to light						2
	light						Bacchus, Mobite	3
	light to	o medium						4
	mediu	ım					Bargère, Beluga	5
	mediu	ım to dark						6
	dark						Lupré	7
	dark t	o very dark						8
	very d	lark						9
9. (*)	QN	MG B/MS A	(+)					
	Plant: inflore emerg	: time of escence gence						
	very e	early						1
	very e	early to early						2
	early						Anksta	3
	early t	to medium						4
	mediu	ım					Coffee, Priekulu 30	5
	mediu	ım to late						6
	late						Beluga	7
	late to	very late						8
	very la	ate					Lumix	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
10	QN	MS A		50-56			
·	Plant: inflore emerg	natural height at escence gence	·				
	very s					Barmedal	1
	very s	hort to short					2
	short					Musketier, Paykar	3
	short t	o medium					4
	mediu					Safin	5
	mediu	m to tall					6
	tall					Galibier	7
	tall to	very tall					8
	very ta	all				Tardi	9
11	QN	VS A	(a)	50-56			
	Plant: inflore emerg	growth habit at escence gence	i				
	erect						1
	erect t	o semi-erect					2
	semi-e	erect				Ambassador, Beluga	3
		erect to					4
	interm	ediate				Priekulu 30	5
	interm	ediate to semi- ate					6
	semi-p	orostrate					7
	semi-p	prostrate to ate					8
	prostra	ate					9
12 (*)	QN	MS A	(b), (c)	50-58		•	•
·	Flag lo	eaf: length	·				
	very s	hort					1
	very s	hort to short					2
	short					Musketier	3
		o medium					4
	mediu					Oberweihst	5
		m to long					6
	long	-				Opina	7
		very long				Opina	8
	long (yory long					١٥

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
13 (*)	QN	MS A	(b), (c)	50-58	•		
·	Flag I	eaf: width					
	very n	arrow					1
	very n	arrow to narrow					2
	narrov					Barmedal	3
	narrov	v to medium	•				4
	mediu		•			Beluga	5
		ım to wide					6
	wide					Opina	7
	wide t	o very wide	<u> </u>				8
	very w	vide					9
14 (*)	QN	MS A	(+) (b)	60-68			
•	Stem:	: length	i i				
						Down a dal	
	very s					Barmedal	1
		hort to short				0-6- Т	2
	short					Safin, Toscali	3
		to medium					4
	mediu 					Dragoner	5
		ım to long					6
	long					Galibier	7
		o very long					8
	very lo						9
15	QN	MS A	(b), (d)	60-68			
	Stem:	length of upper					
	very s						1
		hort to short				B 1 0 5	2
	short					Bacchus, Safin	3
		to medium					4
	mediu 					Dragoner	5
		ım to long					6
	long					Paykar	7
		o very long					8
	very lo	ong					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
16	QN	MS A	(b), (d)	60-68	•		•
	Inflor	escence: length					
	very s	short				Bacchus	1
		short to short					2
	short					Dragoner, Safin	3
	short	to medium					4
	mediu					Oberweihst, RGT Beverly	5
		ım to long					6
	long						7
		o very long					8
	very lo	ong					9

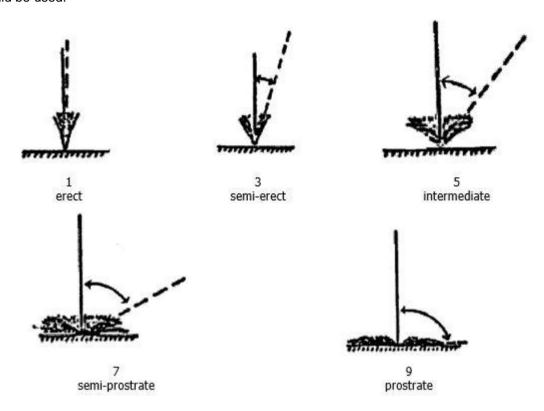
8. Explanations on the Table of Characteristics

8.1 Explanations covering several characteristics

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

(a) Growth habit

The observations should be made visually from the attitude of the leaves of the plant as a whole. The angle formed by the imaginary line through the region of greatest leaf density and the vertical should be used.

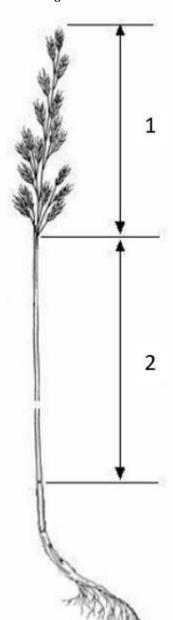


- (b) Observations should be made on the longest stem.
- (c) The flag leaf is the first leaf below the inflorescence. Measurements should be made on the same

Length should be measured from the tip of the leaf blade to the leaf sheath.

Width should be measured at the widest point of the leaf blade.

(d) Char. 15: 2 = The part of the stem above the top node up to the beginning of the inflorescence is the upper internode.
Char. 16: 1 = Length of the inflorescence.



8.2 Explanations for individual characteristics

Ad. 1: Ploidy

Ploidy should assessed by standard cytological methods.

Ad. 3: Plant: tendency to form inflorescences without vernalization

The number of plants showing at least three inflorescences should be recorded for each variety. To be assessed on one occasion on the whole trial when the varieties are judged to have reached their full expression of this characteristic.

Ad. 9: Plant: time of inflorescence emergence

Spaced plants or row plots should be observed at least twice per week.

A: Plots with spaced plants

The time of inflorescence emergence of each single plant should be observed. A single plant is considered to have headed when the tip of three inflorescences can be seen protruding from the flag leaf sheath (Growth Stage DC 50). From the single plant data, a mean date per plot and a mean date per variety is obtained.

B: Row plots

The time of inflorescence emergence is the date at which the average plot stage DC 54 has been reached. This date should – if necessary– be obtained by interpolation. At each observation date, the average plot stage should be expressed in one of the following growth stages:

DC 50	First spikelet of inflorescence just visible
DC 52	25% of the inflorescence emerged (across all stems)
DC 54	50% of the inflorescence emerged (across all stems)
DC 56	75% of the inflorescence emerged (across all stems)

Ad. 14: Stem: length

To be recorded on the longest stem, inflorescence included, in the field from ground level, when the inflorescence is fully expanded.

8.3 Explanations on growth stages

All characteristics should be recorded at the appropriate time for the plant concerned. Growth stages of grasses are indicated by decimal codes which are derived from the decimal code for the growth stages of cereals (Zadoks, et al., 1974). This decimal code is in close conformity with the BBCH-code (Meier, 1997).

Seedling growth (seedling: one shoot)

DC 10	First leaf through coleoptile
DC 15	Five leaves unfolded
DC 19	Nine or more leaves unfolded

Tillering

DC 20	Main shoot only (beginning of tillering)
DC 23	Main shoot and 3 tillers
DC 25	Main shoot and 5 tillers
DC 29	Main shoot and 9 or more tillers

Stem elongation

DC 30	Pseudo-stem erection (formed by sheaths of leaves)
DC 31	First node detectable (early stem extension across all stems)
DC 35	Fifth node detectable (50 % extension across all stems)
DC 39	Flag leaf ligula/collar just visible (pre-boot stage)

Booting

DC 41	Flag leaf sheath extending (little enlargement of the inflorescence, early boot-stage)
DC 45	Boots swollen (late-boot stage)
DC 47	First leaf sheath opening
DC 49	first awns visible (in awned forms only)

Inflorescence emergence (mostly non-synchronous)

DC 50	First spikelet of inflorescence just visible
DC 52	25 % of the inflorescence emerged (across all stems)
DC 54	50 % of the inflorescence emerged (across all stems)
DC 56	75 % of the inflorescence emerged (across all stems)
DC 58	Emergence of inflorescence completed

Anthesis (mostly non-synchronous)

DC 60	Beginning of anthesis
DC 64	Anthesis half-way
DC 68	Anthesis complete

9. <u>Literature</u>

Meier, U., 2001: Growth stages of mono- and dicotyledonous plants. BBCH-Monograph, German Federal Biological Research Centre for Agriculture and Forestry.

Zadoks, J. C., Chang, T. T. and Konzak, C. F., 1974: A decimal code for the growth stages of cereals. Weed Research, 14: pp. 415 to 421.

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 ection with an application	NRE for plant breeders' rights
1.	Subject	of the Technical Question	nnai	re	
	1.1	Botanical name	Da	octylis glomerata L.	
	1.2	Common name	Co	ocksfoot, Orchard Grass	
2.	Applica	nt			
	Name				
	Address				
	Telephone No.				
	Fax No.				
	E-mail a	address			
	Breeder applicar	r (if different from nt)			
3.	Propose	ed denomination and bree	der	's reference	
	Propose (if availa	ed denomination able)			
	Breede	r's reference			

TECHN	NICAL QI	UESTIONNAIRE	Page {x} of {y}	Reference Number:
#4.	Informat	ion on the breeding scheme	and propagation of the var	riety
	4.1	Breeding scheme		
	Variety ı	resulting from:		

TECHNICAL C	QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
4.2 4.2.1	Method of propagating the variety Other (Please provide details)		[1

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 (1)	Ploidy		
	diploid	Barmedal	2[]
	tetraploid	Beluga	4[]
5.2 (9)	Plant: time of inflorescence emergence		
	very early		1[]
	very early to early		2[]
	early	Anksta	3[]
	early to medium		4[]
	medium	Coffee, Priekulu 30	5[]
	medium to late		6[]
	late	Beluga	7[]
	late to very late		8[]
	very late	Lumix	9[]
5.3 (14)	Stem: length		
	very short	Barmedal	1[]
	very short to short		2[]
	short	Safin, Toscali	3[]
	short to medium		4[]
	medium	Dragoner	5[]
	medium to long		6[]
	long	Galibier	7[]
	long to very long		8[]
	very long		9[]

TECHNICAL QUESTIONN	NAIRE Page {x} of	{y} Reference Nu	ımber:
6. Similar varieties and d	lifferences from these varieties		
from the variety (or varietie	ble and box for comments to s) which, to the best of your r ity to conduct its examination o	knowledge, is (or are) most	similar. This information may
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	Plant: time of inflorescence emergence	early	medium
Comments:			

TECHN	NICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
#7.	Additional information which may he	elp in the examination of th	e variety	
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristics which man help to distinguish the variety?			
	Yes []	No	[]	
	(If yes, please provide details)			
7.2	Are there any special conditions fo	r growing the variety or cor	ducting the examination?	
	Yes []	No	[]	
	(If yes, please provide details)			
7.3	Other information			
- Res	sistance to pests and diseases			

LEC	HNICA	L QUES	HONNAIRE	Page {x} o	T {Y}	Reference	e Number:		
8.	Autho	orization fo	r release						
	(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?							пе	
		Yes [] No []							
	(b)	Has sucl	h authorization bee	n obtained?					
		Yes	[]	No	[]				
	If the	answer to	(b) is yes, please a	attach a copy of t	the authoriza	ation.			
9. Inf	formation	on on plan	t material to be exa	amined or submi	tted for exar	nination			
	s and	disease, d	ion of a characteris chemical treatment en from different gi	(e.g. growth re	tardants or				
chara has i	acterist underg	ics of the one such t	ial should not hat variety, unless the treatment, full deta ledge, if the plant n	competent authorils of the treatme	orities allow ent must be	or request sugiven. In this	ich treatment. respect, pleas	If the plant materi	ial
	(a)	Micr	oorganisms (e.g. v	irus, bacteria, ph	ytoplasma)		Yes []	No []	
	(b)	Che	mical treatment (e.	g. growth retarda	ant, pesticid	e)	Yes []	No []	
	(c)	Tiss	ue culture				Yes []	No []	
	(d)	Othe	er factors				Yes []	No []	
	Ple	ase provid	le details for where	you have indica	ted "yes".				
10.	l he	arehy decla	are that, to the best	of my knowledg	e the inform	nation provide	d in this form is	e correct:	
10.		-	,	or my knowledg	e, the inform	nation provide	d iii tiiis loiiii k	s correct.	
	App	olicant's na	ame						
	Sig	gnature				Date			

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