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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

ZOYSIA GRASSES

UPOV Code(s): ZOYSI

Zoysia Willd.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Japan 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
<i>Zoysia</i> Willd.	Japanese Lawn Grass	Zoysia	Zoysia	Zoysia

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.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of Zoysia Willd.

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

vegetatively propageted varieties: 40 plants seed-propageted varieties: 500 g of seed.

In the case of seed, 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

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

- 3.4 Test Design
- 3.4.1 In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 15 plants which should be divided between at least 3 replicates.
- 3.4.2 In the case of seed-propagated varieties, each test should be designed to result in a total of at least 60 which should be divided between at least 3 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

In the case of vegetatively propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observation made on all plants in the test, disregarding any off-type plants.

In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observation made on all plants in the test, disregarding any off-type plants.

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 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

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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 The assessment of uniformity for seed-propagated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.
- 4.2.4 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 95% and an acceptance probability of at least 1% should be applied. In the case of a sample size of 15 plants, 1 off-type is allowed.
- 4.3 Stability
- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new 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) Stolon: color (characteristic 9)
 - (b) Leaf: leaf blade length (characteristic 10)
 - (c) Leaf: shape of ligule (characteristic 17)
 - (d) Inflorescence: color of spikelets (characteristic 27)
 - (e) Time of flowering (in spring) (characteristic 31)
 - (f) Time of senescence of leaves (in autumn) (characteristic 32)
- 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/ Nota
1	2	3	4	5	6	7			
		Name of characteristics in English		Nom o caract frança	tère en	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 Not applicable

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)			,	
	Plant	growth habit		•				
	erect							1
	semi-	erect					Meyer	3
	interm	nediate					Emerald	5
	semi-	prostrate						7
	prostr						Tsukuba hime	9
2. (*)	<u> </u>	MS/VG	(+)	(c)				
:	İ	: height		:				
		. noignt						
	short							3
	mediu	ım						5
	tall							7
3. (*)	QN	MS/VG	(+)			<u> </u>		1
	Stolo	n: length						
	narro	N						3
	mediu	ım						5
	broad							7
4. (*)	QN	VG		(a)				•
	Stolo color: sheat	n: anthocyanin ation of leaf h						
	abser	it or very weak						1
	weak							3
	mediu	ım						5
	strong]				<u> </u>		7
	very s	trong						9
5.	QN	MS		(a)			1	
	Stolo	n: length of leaf h						
	short							3
	mediu	ım						5
	long							7

Example Varieties Note/ English français deutsch español Exemples Nota Beispielssorten Variedades ejemplo ۷G 6. QN (a) Stolon: density of hairiness on leaf sheath sparse 1 medium 3 dense 5 7. (*) QN MS (+) (a) Stolon: internode length 3 short medium 5 long 7 8. MS QN (+) (a) Stolon: width of internode narrow 1 3 medium broad 5 9. (*) PQ ۷G (a) Stolon: color greenish yellow 1 light green 2 3 medium green dark green 4 reddish green 5 red 6 purple 7 10 (*) QN MS/VG (a), (d) Leaf: leaf blade length 3 short Emerald medium 5

long

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
11 (*)	QN	MS/VG	(a), (d)				
	Leaf:	leaf blade width	·				
	narrov						3
	mediu						5
	broad						7
12	QN	VG	(a)				
	Leaf: intens	leaf blade sity of green					
	light						3
	mediu	ım				Emerald	5
	dark					Meyer	7
13 (*)	QN	VG	(a)				
	Leaf: densi upper	leaf blade ity of hairs on r side					
	absen	nt or very sparse					1
	sparse	е					2
	mediu						3
	dense						4
	very d	lense					5
14	QN	VG	(a)				
	Leaf: densi lower	leaf blade ity of hairs on side					
	absen	nt or very sparse					1
	sparse	е					3
	mediu	ım					5
•	dense	•					7
15	QL	VG	(a)				
	Leaf:	leaf blade margin					
	smoot	th					1
	serrat						2

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16	QN	VG		(a)				
	Leaf: sheat	leaf h density of hairs						
	sparse	 9						1
	mediu	m	•					3
	dense							5
17 (*)	PQ	vs	(+)	(a)		•		
	Leaf:	shape of ligule						
	absen							1
	memb	ranous						2
		of hairs						3
18	QN	MS		(b)				
	Culm:	length						
	short							1
	mediu	m						3
	long							5
19	QN	MS		(b)				
	Culm:	width						
	narrov	V	•					3
	mediu	m						5
	broad							7
20	QN	MS/VG		(b)				
	Flag I	eaf: length						
	short							3
	mediu	m						5
	long							7
21	QN	MS/VG		(b)				
	Flag I	eaf: width						
	narrov	v						3
	mediu	m						5
	broad							7

	Engli	ish		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22 (*)	QN MS/V	′G		(b)				
:	Inflorescenc	e: length						
	short							3
	medium							5
	long							7
23	QN MS/V	/G		(b)				L
	Inflorescenc	e: width	·					
	narrow							3
	medium						Meyer	5
	broad						Moyor	7
24 (*)								
	Plant: number inflorescence spring)	er of es (in						
	none or very	few						1
	few							3
	medium							5
	many						Meyer	7
	very many							9
25	QN VG					1		T
	Plant: number inflorescence autumn)							
	none or very	few						1
	few							3
	medium							5
	many							7
	very many							9
26	QN VG	((+)				•	•
	Inflorescenc position of infloresence vagetative gr	from						
	below						GZ-006	1
	medium						G-10	2
	above						Diamond	3

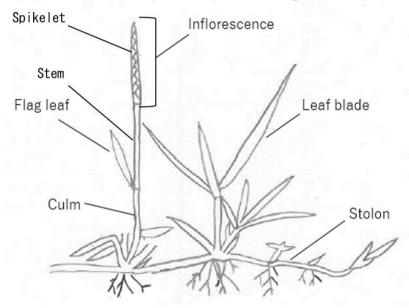
		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27 (*)	PQ	VG						
	Inflore spikel	escence: color of ets						
	yellow	ish						1
	greeni	sh						2
	purplis	h					Emerald, Meyer	3
28 (*)	QN	MS/VG					,	•
·	Inflore of spil	escence: length kelets		•				
	short							3
	mediu	m					Meyer	5
	long							7
29	QN	MS/VG						
·	Inflore of spil	escence: number kelets		:				
	few							3
	mediu	m						5
	many							7
30	QN	MG	(+)					
	Time o	of appearance of eaves						
	early							3
	mediu	m						5
	late		•					7
31 (*)	QN	MG	(+)					
	Time o	of flowering (in						
	early							3
	mediu	m					Emerald, Meyer	5
	late							7
32 (*)	QN	MG	(+)					
·	Time of	of senescence of s (in autumn)						
	early							3
	mediu	m					Emerald	5
	late							7

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33	QN	VG					
	intens anthoo colora	cyanin ition (in autumn)					
	absent	or very weak					1
	weak						3
	mediur						5
	strong						7
	very st						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:

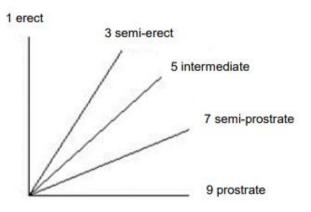
- (a) The plant, stolon and leaf should be observed just before flowering time
- (b) The culm, flag leaf and inflorescence should be observed at flowering time
- (c) Explanation on the plant parts of Japanese lawn grass.



- (d) Observation on the leaf blead should be made on the largest leaf of the upright stem in the middle of the plant.
- 8.2 Explanations for individual characteristics

Ad. 1: Plant: growth habit

Plant growth habit is assessed at the vegetative stage just before flowering or during the early flowering stage. It should be assessed visually from the attitude of the leaves and the development of lateral stolons. The angle formed by the outer leaves with an imaginary middle axis should be used. The following 1-9 scale is used to describe the states.



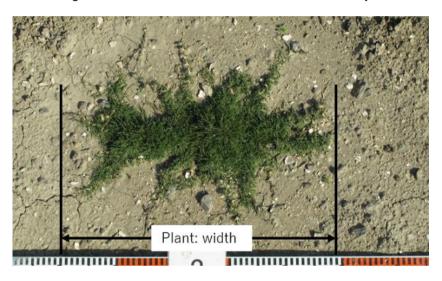
Ad. 2: Plant: height

Plant height should be observed in the summer of the 2nd year.



Ad. 3: Stolon: length

Stolon length should be observed in the summer in the 2nd year.



Ad. 7: Stolon: internode length

Internode length of stolon should be observed between 4 and 5 nodes from tip of stolon.

Ad. 8: Stolon: width of internode

Internode width of stolon should be observed between 4 and 5 nodes from tip of stolon.

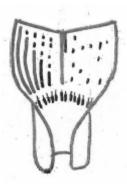
Ad. 17: Leaf: shape of ligule



1 absent

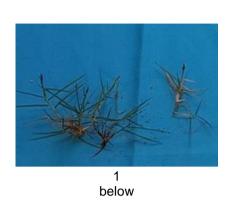


2 membranous



3 fringe of hairs

Ad. 26: Inflorescence: position of infloresence from vagetative growth area





2 medium

Ad. 30: Time of appearance of new leaves

Time of greening should be observed the day when new leaves can be seen on the stems of about 50% of the plants after vernalization.

Ad. 31: Time of flowering (in spring)

Time of flowering in spring should be observed in the 2nd year after planting.

Ad. 32: Time of senescence of leaves (in autumn)

Time of coloring should be observed the day when the leaves color changed about its of the leaves 50% of the plant from autumn to early winter.

9. <u>Literature</u>

Japanese Society of Turfgrass Science., 2001: Handbook: management of turf and turfgrass research. Soft science Co., Tokyo, Japan

Asano, T., Aoki, K., 1998: Turfgrasses and the cultivars., Soft science Co., Tokyo, Japan

10. <u>Technical Questionnaire</u>

TECHN	IICAL Q	UESTIONNAIRE		Page {x} of {y}	Reference Number:	
					Application date:	
					(not to be filled in by the applican	ıt)
				CHNICAL QUESTIONNA ection with an application	IRE for plant breeders' rights	
1.	Subject	of the Technical Question	nnai	re		
	1.1	Botanical name	Zo	ysia Willd.		
	1.2	Common name	Ja	panese Lawn Grass		
2.	Applica	nt				
	Name					
	Address	3				
	Telepho	one No.				
	Fax No.					
	E-mail a	address				
	Breeder applicar	r (if different from nt)				
3.	Propose	ed denomination and bree	eder	's reference		
	Propose (if availa	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 schem	e and propagation of t	he var	riety	
	4.1	Breeding scheme				
	Variety	resulting from:				
	4.1.1	Crossing				
	(a)	controlled cross			[1
		(please state parent variet	ty)			
		()	X	()
		female parent			male parent	
	(b)	partially known cross			[1
		(please state known parer	nt variety(ies))			
		()	x	()
		female parent			male parent	
	(c)	unknown cross]	1
	4.1.2	Mutation (please state parent variet	y)		I	1
	4.1.3	Discovery and developme (please state where and w	nt hen discovered and h	ow de	veloped)	1
	4.1.4	Other (Please provide details)			[1

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

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 (9)	Stolon: color		
	greenish yellow		1[]
	light green		2[]
	medium green		3[]
	dark green		4[]
	reddish green		5[]
	red		6[]
	purple		7[]
5.2 (10)	Leaf: leaf blade length		
	short	Emerald	3[]
	medium		5[]
	long		7[]
5.3 (17)	Leaf: shape of ligule		
	absent		1[]
	membranous		2[]
	fringe of hairs		3[]
5.4 (27)	Inflorescence: color of spikelets		
	yellowish		1[]
	greenish		2[]
	purplish	Emerald, Meyer	3[]
5.5 (31)	Time of flowering (in spring)		
	early		3[]
	medium	Emerald, Meyer	5[]
	late		7[]
5.6 (32)	Time of senescence of leaves (in autumn)		
	early		3[]
	medium	Emerald	5[]
	late		7[]

TECHNICAL QUESTIONNAIRE		Page {x} of {y}		Reference Number:		
6. Similar varieties and diff	erences from tl	nese varieties				
Please use the following table from the variety (or varieties) help the examination authority	which, to the	best of your i	knowledge, is	(or are) most	similar. This information may	
	Characteristic our candidate of from the similar	variety differs	the characte	expression of ristic(s) for the variety(ies)	Describe the expression of the characteristic(s) for you candidate variety	
Example	Stolon	color	greenis	sh yellow	red	
Comments:						

TECHI	NICAL C	QUESTIONNAIRE	Page {x} of {y}	Reference Number:			
#7.	A -1 -1:4: -		ala ia dan arrania atian at da	dat.			
<i>"1</i> .	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 th	ere any special conditions fo	r growing the variety or cor	nducting the examination?			
	Yes	[]	No	[]			
	(If yes,	please provide details)					
7.3	Other	information					

TECH	<u>INICA</u>	L QUES	TIONNAIRE	Page {x} c	of {y}	Refere	ence Number:		
8.	Autho	orization fo	or release						
	(a)		e variety require pric nent, human and an		for release	under legis	slation concerning t	he protection of	f the
		Yes	[]	No	[]				
	(b)	Has such	h authorization beer	n obtained?					
		Yes	[]	No	[]				
	If the	answer to	(b) is yes, please a	ttach a copy of	the authoriz	zation.			
9. Inf	ormatio	on on plan	nt material to be exa	mined or submi	itted for exa	mination			
	and o	disease, c	ion of a characterist chemical treatment en from different gro	(e.g. growth re	etardants o	r pesticide			
chara has u	acterist underge	ics of the one such t	rial should not hav variety, unless the or treatment, full detail ledge, if the plant m	competent auth	orities allovent must be	w or reques e given. In	st such treatment. I this respect, please	f the plant mate	erial
	(a)	Micr	roorganisms (e.g. vi	rus, bacteria, pl	hytoplasma)	Yes []	No []	
	(b)	Che	emical treatment (e.g	g. growth retard	ant, pesticio	de)	Yes []	No []	
	(c)	Tiss	sue culture				Yes []	No []	
	(d)	Othe	er factors				Yes []	No []	
	Please provide details for where you have indicated "yes".								
10.	l bc	roby dock	are that to the heat	of my knowlode	no the infer	mation pro	wided in this form is	correct:	
10.		-	are that, to the best	— Knowiedę	je, me mioi	mation pro	vided in this form is	Correct.	_
	App	olicant's na	ame						
	Q:a	gnature	ſ						\neg
	SIC	malure				I D:	ato.		1

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