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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

BUDDLEIA

UPOV Code: BUDDL

Buddleja L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from France

*to be considered by the
Technical Working Party for Ornamental Plants and Forest Trees
at its thirty-eighth session to be held in Seoul, Republic of Korea, from
September 12 to 16, 2005*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
Buddleja L.	Buddleia, Butterfly-bush	Arbre aux papillons, Buddleia	Buddleie, Schmetterlingsstrauch	Budleya, Mariposa

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.]

<u>TABLE OF CONTENTS</u>	<u>PAGE</u>
1. SUBJECT OF THESE TEST GUIDELINES.....	3
2. MATERIAL REQUIRED	3
3. METHOD OF EXAMINATION.....	3
3.1 Number of Growing Cycles	3
3.2 Testing Place	3
3.3 Conditions for Conducting the Examination.....	3
3.4 Test Design	4
3.5 Number of Plants / Parts of Plants to be Examined.....	4
3.6 Additional Tests	4
4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY	4
4.1 Distinctness	4
4.2 Uniformity.....	5
4.3 Stability	5
5. GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL.....	5
6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS	5
6.1 Categories of Characteristics.....	5
6.2 States of Expression and Corresponding Notes.....	6
6.3 Types of Expression.....	6
6.4 Example Varieties	6
6.5 Legend.....	6
7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES.....	7
8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS	19
9. LITERATURE.....	20
10. TECHNICAL QUESTIONNAIRE.....	21

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Buddleja* 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 cuttings, at least one-year-old

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

- Rooted cuttings at least one-year-old.
- Height plants.

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*

The minimum duration of tests should normally be a single growing cycle (to have sufficiently developed plants, a second cycle is sometimes necessary).

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 recommended method of observing the characteristic is indicated by the following key in the second column of the Table 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

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 6 plants.

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.

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

Unless otherwise indicated, all observations should be made on 6 plants or parts taken from each of 6 plants.

3.6 *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.

4.2 *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:

4.2.1 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 6 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.

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) Leaf: variegation (characteristic 17)
- (b) Leaf: variegation type (characteristic 18)
- (c) Flower: petal color (upper side) (characteristic 42)
- (d) Flowering: flowering distribution (characteristic 48)

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 Chapter 6.1.2

QL: Qualitative characteristic – see Chapter 6.3

QN: Quantitative characteristic – see Chapter 6.3

PQ: Pseudo-qualitative characteristic – see Chapter 6.3

MG: single measurement of a group of plants or parts of plants – see Chapter 3.3.1

MS: measurement of a number of individual plants or parts of plants – see Chapter 3.3.1

VG: visual assessment by a single observation of a group of plants or parts of plants – Chapter 3.3.1

VS: visual assessment by observation of individual plants or parts of plants” –see Chapter 3.3.1

(a)-{x} See Explanations on the Table of Characteristics in Chapter 8.1

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

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

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1.	VG	Plant: vigor	Plante: vigueur	Pflanze: Wuchsform	Planta: porte	
(*)						
(+)						
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
2.	VG	Plant: attitude	Plante: port	Pflanze: Wuchsform	Planta: porte	
(*)						
(+)						
QN	upright	dressé				1
	protruding	globuleux				2
	spread	étalé				3
3.	MG	Plant: height	Plante : hauteur			
QN	very short	très petite				1
	short	petite				3
	medium	moyenne				5
	tall	haute				7
	very tall	très haute				9
4.	MG	Plant: ratio height/width	Plante : rapport hauteur/largeur			
QN	higher than wide	plus haute que large				1
	as high as wide	aussi haut que large				2
	less high than wide	moins haut que large				3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
5. (*)	VG	Stem: color	Tige : couleur			
PQ	green	verte				1
	brownish	brune				2
	reddish	rougeâtre				3
6.	VG	Stem: color intensity	Tige : intensité de la couleur			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
7. (+)	VG	Stem: transversal section	Tige : section transversale			
PQ	quadrangular	quadrangulaire				1
	hexagonal	hexagonale				2
	rounded	ronde				3
8. (+)	VG	Stem: corner intensity	Stem : intensité des angles			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
9.	VG	Stem: pubescence	Tige : pubescence			
QL	absent	absente				1
	present	présente				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
10.	VG	Stem: intensity of pubescence	Tige : intensité de la pubescence			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
11.	VG	Leaf: shape	Feuille : forme de la feuille			
(+)						
PQ	narrow lanceolate	lancéolée étroite				1
	medium lanceolate	lancéolée				2
	broad lanceolate	lancéolée large				3
	deltoid	deltoïde				4
12.	VG	Leaf: apex blade shape	Feuille : forme du sommet du limbe			
PQ	acute	pointue				1
	rounded	arrondie				2
13.	VG	Leaf: color of the upper side	Feuille : couleur face supérieure			
PQ	green	verte				1
	reddish	rougeâtre				3
14.	VG	Leaf: color intensity	Feuille : intensité de la couleur			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15. (*)	VG	Leaf: color of the lower side	Feuille : couleur face inférieure			
PQ		whitish	blanchâtre			1
		green	vert			2
		reddish	rougeâtre			3
16.	VG	Leaf: intensity of color of the lower side	Feuille : intensité de la couleur			
QN		very weak	très faible			1
		weak	faible			3
		medium	moyenne			5
		strong	forte			7
		very strong	très forte			9
17. (*)	VG	Leaf: variegation	Feuille : panachure			
QL		absent	absente			1
		present	présente			9
18. (*) (+)	VG	Leaf: variegation type	Feuille : type de panachure			
QL		only bordered	seulement bordé			1
		bordered and stained	bordé et maculé			2
		only stained	seulement maculé			3
19.	VG	Leaf: petiole length	Feuille : longueur pétiole			
QN		very short	très court			1
		short	court			3
		medium	moyen			5
		long	long			7
		very long	très long			9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
20.	VG	Leaf: blade cutting	Feuille : découpeure du limbe			
QL	absent	absente				1
	present	présente				9
21.	VG	Leaf: cutting type	Feuille : type de découpeure			
PQ	indented	denticulé				1
	tight	serré				2
	incised	incisé				3
22.	VG	Leaf: pubescence on the upper side	Feuille : pubescence face supérieure			
QL	absent	absente				1
	present	présente				9
23.	VG	Leaf: intensity of pubescence on the upper side	Feuille : intensité de la pubescence sur la face supérieure			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
24.	VG	Leaf: pubescence on the lower side	Feuille : pubescence face inférieure			
QL	absent	absente				1
	present	présente				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
25.	VG	Leaf: intensity of pubescence on the lower side	Feuille : intensité de la pubescence sur la face inférieure			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
26.	VG	Leaf: goffering	Feuille : gaufrure			
QL	absent	absente				1
	present	présente				9
27.	VG	Leaf: intensity of goffering	Feuille : intensité de la gaufrure			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
28.	VG	Plant: inflorescence number	Plante : nombre d'inflorescences			
(+)						
QN	very small	très petit				1
	small	petit				3
	medium	moyen				5
	high	grand				7
	very high	très grand				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
29. MG	Flower: shape	Fleur : forme				
PQ	cylindrical short	cylindrique court				1
	cylindrical long	cylindrique long				2
	conical short	conique court				3
	conical long	conique long				4
30. MG	Inflorescence: length	Inflorescence : longueur				
QN	very short	très courte				1
	short	courte				3
	medium	moyenne				5
	long	longue				7
	very long	très longue				9
31. VG	Inflorescence: flower density	Inflorescence : densité des fleurs				
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
32. MG	Inflorescence: flower number on each bunch	Inflorescence: nombre de fleurs par bouquet				
QN	very small	très petit				1
	small	petit				3
	medium	moyenne				5
	high	grande				7
	very high	très grande				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
33.	VG	Flower: flower tube length	Fleur : longueur du tube de la fleur			
QN	very short	très court				1
	short	court				3
	medium	moyen				5
	long	long				7
	very long	très long				9
34.	VG	Flower: external color of the tube	Fleur: couleur extérieur du tube			
(*)						
PQ	orangish yellow	jaune orangé				1
	orange	orange				2
	pink	rose				3
	purplish –pink	rose violacé				4
	purplish-blue	bleu violacé				5
	purple	violet				6
35.	VG	Flower: tube shape	Fleur : forme du tube			
QL	circular	circulaire				1
	quadrangular	quadrangulaire				2
36.	VG	Flower: petal implantation	Fleur : implantation du pétale			
QN	flat	a plat				1
	intermediate	intermédiaire				2
	tubular	tubulaire				3

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
37.	VG	Tube: intensity of the internal color	Tube : intensité de la couleur interne			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
38.	VG	Petals: overlapping	Pétale : chevauchement des pétales			
?	apart	disjoint				1
	touching	tangent				2
	overlapping	chevauchant				3
	irregular	variable				4
39.	VG	Petal: cutting of the petal edge	Pétale : découpe du bord des pétales			
QL	absent	absente				1
	present	présente				9
40.	VG	Flower: petals cutting intensity	Fleur : intensité de la découpe des pétales			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
41.	VG	Petal: size	Petale : taille			
(+)						
QN	very small	très petite				1
	small	petite				3
	medium	moyenne				5
	high	grande				7
	very high	très grande				9
42.	VG	Flower: petal color (upper side)	Fleur : couleur du pétale (face supérieure)			
(*)						
PQ	R.H.S	R.H.S				
43.	VG	Sepal: hue	Sépales : teinte			
PQ	whitish	blanchâtre				1
	greyish	grisâtre				2
	greenish	verdâtre				3
	reddish	rougeâtre				4
44.	VG	Sepals: pubescence	Sépales pubescence			
QL	absent	absente				1
	present	présente				9
45.	VG	Sepals: intensity of pubescence	Sépales : intensité de la pubescence			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
46.	VG	Flowering: earliness of flowering	Floraison : précocité			
QN	very early	très précoce				1
	early	précoce				3
	medium	moyenne				5
	late	tardive				7
	very late	très tardive				9
47.	VG	Flowering: flowering periodicity in the year	Fleuraison : périodicité de la floraison			
PQ	once	une fois				3
	twice	deux fois				5
	continual	continue				7
48. (*)	VG	Flowering: flowering distribution	Floraison : localisation de la fleuraison			
QL	on the year wood	sur le bois de l'année				1
	on the two year 's old wood	sur le bois de deux ans				2
49.	MG	Flowering: scent	Fleuraison : parfum			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyen				5
	strong	fort				7
	very strong	très fort				9
50.	VG	Fruit: fructification	Fruit : fructification			
QL	absent	absente				1
	present	présente				9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
51.	VG	Plant: intensity of fructification	Plante: intensité de la fructification			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
52.	VG	Fruit: color	Fruit : couleur			
PQ	green	vert				1
	reddish green	vert rougeâtre				2
53.	VG	Fruit: intensity of color	Fruit : intensité de la couleur			
QN	very weak	très faible				1
	weak	faible				3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

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

8.2 *Explanations for individual characteristics*

9. Literature

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<input type="text" value="Buddleja L."/>	
1.2 Common name	<input type="text" value="Buddleja"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<hr/>		
#4. Information on the breeding scheme and propagation of the variety		
4.1 Breeding scheme		
Variety resulting from:		
4.1.1 Crossing		
(a) controlled cross (please state parent varieties)	[]	
(b) partially known cross (please state known parent variety(ies))	[]	
(c) unknown cross	[]	
4.1.2 Mutation (please state parent variety)	[]	
4.1.3 Discovery and development (please state where and when discovered and how developed)	[]	
4.1.4 Other (please provide details)	[]	
<div style="border: 1px solid black; height: 50px; width: 100%;"></div>		
4.2 Method of propagating the variety		
4.2.1 Vegetative propagation		
(a) cuttings	[]	
(b) <i>in vitro</i> propagation	[]	
(c) other (state method)	[]	
4.2.2 Seed	[]	
4.2.3 Other (please provide details)	[]	
<div style="border: 1px solid black; height: 50px; width: 100%;"></div>		

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	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<p>6. Similar varieties and differences from these varieties</p> <p><i>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.</i></p>			
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
<i>Example</i>			
<p>Comments:</p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:												
<p>9. Information on plant material to be examined or submitted for examination.</p> <p>9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.</p> <p>9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:</p> <table data-bbox="292 756 1429 1029"><tbody><tr><td>(a) Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes []</td><td>No []</td></tr><tr><td>(b) Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes []</td><td>No []</td></tr><tr><td>(c) Tissue culture</td><td>Yes []</td><td>No []</td></tr><tr><td>(d) Other factors</td><td>Yes []</td><td>No []</td></tr></tbody></table> <p>Please provide details for where you have indicated “yes”.</p> <p>.....</p>			(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []	(b) Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []	(c) Tissue culture	Yes []	No []	(d) Other factors	Yes []	No []
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(d) Other factors	Yes []	No []												
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <table data-bbox="292 1344 1429 1491"><tbody><tr><td>Applicant's name</td><td colspan="2"><input type="text"/></td></tr><tr><td>Signature</td><td><input type="text"/></td><td>Date <input type="text"/></td></tr></tbody></table>			Applicant's name	<input type="text"/>		Signature	<input type="text"/>	Date <input type="text"/>						
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