

UPOV

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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

GAURA \*

UPOV Code: GAURA\_LIN

*Gaura lindheimeri* Engelm. et A. Gray

## GUIDELINES

## FOR THE CONDUCT OF TESTS

## FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from the United Kingdom**to be considered by the**Technical Working Party for Ornamental Plants and Forest Trees**at its forty-first session, to be held in Wageningen, Netherlands, from June 9 to 13, 2008*

Alternative Names: \*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Gaura lindheimeri</i> Engelm. et A. Gray	Gaura	.....	.....	.....

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](http://www.upov.int)), for the latest information.]

TABLE OF CONTENTSPAGE

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 .....	6
6.1 Categories of Characteristics.....	6
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 .....	16
8.1 Explanations covering several characteristics .....	16
8.2 Explanations for individual characteristics .....	16
9. LITERATURE .....	17
10. TECHNICAL QUESTIONNAIRE .....	18

## 1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Gaura lindheimeri* Engelm. et A. Gray, of the family *Onagraceae*.

## 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 young plants of commercial standard.

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

10 young 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.

### 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 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background.

### 3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 10 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*

3.5.1 Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 plants and **any other observations made on all plants in the test.**

### 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:

4.2.2. 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 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 23)
- (b) Leaf: anthocyanin (characteristic 27)
- (c) Petal: main color of inner surface (characteristic 37), with the following groups:
  - Gr. 1: white
  - Gr. 2: light pink
  - Gr. 3: medium pink
  - Gr. 4: dark pink
  - Gr. 5: red
- (d) Petal: secondary color of inner surface (characteristic 38)

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

(a)-(e) 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
<b>1.</b>	<b>Plant: overall height</b>					
(*)						
<b>QN</b>	(a)	short				3
		medium				5
		tall				7
<b>2.</b>	<b>Plant: overall width</b>					
<b>QN</b>	(a)	narrow				3
		medium				5
		broad				7
<b>3.</b>	<b>Plant: growth habit</b>					
(*)						
<b>PQ</b>	(a)	upright				1
		semi-upright				2
		rounded				3
		spreading				4
<b>4.</b>	<b>Plant: density</b>					
<b>QN</b>	(a)	sparse				3
		medium				5
		dense				7
<b>5.</b>	<b>Plant: floriferousness</b>					
<b>QN</b>		weak				3
		medium				5
		strong				7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>6.</b>	<b>Stem: strength</b>					
<b>QN</b>	(b)	weak				3
		medium				5
		strong				7
<b>7.</b>	<b>Stem: overall length</b>					
<b>QN</b>	(b)	short				3
		medium				5
		long				7
<b>8.</b>	<b>Stem: length of flowering part</b>					
<b>QN</b>		short				3
		medium				5
		long				7
<b>9.</b>	<b>Stem: length of flowering part relative to overall length</b>					
<b>QN</b>		shorter				3
		same length				5
		longer				7
<b>10.</b>	<b>Stem: branching</b>					
<b>QN</b>	(b)	weak				3
		medium				5
		strong				7



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>11.</b>	<b>Stem: color</b>					
(+)						
<b>PQ</b>	light green					1
	medium green					2
	dark green					3
	green tinged with red					4
	green tinged with bronze					5
	bronze					6
	red					7
	yellow tinged with red					8
<b>12.</b>	<b>Young leaf: anthocyanin</b>					
(*)						
<b>QL</b>	(c) absent					1
	present					9
<b>13.</b>	<b>Young leaf: distribution of anthocyanin</b>					
<b>PQ</b>	(c) mainly towards the base					1
	mainly towards the tip					2
	mainly towards the margin					3
	mainly along the main vein					4
	discrete spots					5
	irregular blotches					6

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>14.</b>	<b>Young leaf: area of anthocyanin</b>					
<b>QN</b>	(c)	small				3
		medium				5
		large				7
<b>15.</b>	<b>Foliage: density</b>					
<b>QN</b>	(d)	weak				3
		medium				5
		strong				7
<b>16.</b>	<b>Leaf: length</b>					
<b>QN</b>	(d)	short				3
		medium				5
		long				7
<b>17.</b>	<b>Leaf :width</b>					
<b>QN</b>	(d)	narrow				3
		medium				5
		broad				7
<b>18.</b>	<b>Leaf: length/width ratio</b>					
<b>QN</b>	(d)	low				3
		medium				5
		high				7
<b>19.</b>	<b>Leaf: position of maximum width</b>					
<b>QN</b>	(d)	towards the base				1
		at the mid point				2
		towards the top				3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>20.</b>	<b>Leaf: shape of apex</b>					
<b>PQ</b>	(d) acute					1
	acuminate					2
	obtuse					3
<b>21.</b>	<b>Leaf: undulation of margin</b>					
<b>QN</b>	(d) weak					3
	medium					5
	strong					7
<b>22.</b> (*) (+)	<b>Leaf: main color of upper surface</b>					
<b>PQ</b>	(d) light green					1
	medium green					2
	dark green					3
	grey green					4
<b>23.</b> (*)	<b>Leaf: variegation</b>					
<b>QL</b>	(d) absent					1
	present					9
<b>24.</b> (*)	<b>Leaf: distribution of variegation</b>					
<b>PQ</b>	(d) marginal					1
	central					2
	irregular blotches					3
	fine flecks					4
	stripes/streaks					5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>25.</b>	<b>Leaf: area covered by variegation</b>					
<b>QN</b>	(d)	small				3
		medium				5
		large				7
<b>26.</b> (*)	<b>Leaf: color of variegation</b>					
<b>PQ</b>	(d)	white				1
		light yellow				2
		medium yellow				3
<b>27.</b> (*)	<b>Leaf: anthocyanin</b>					
<b>QL</b>	(d)	absent				1
		present				9
<b>28.</b>	<b>Leaf: distribution of anthocyanin</b>					
<b>PQ</b>	(d)	mainly towards the base				1
		mainly towards the tip				2
		mainly towards the margin				3
		mainly along the main vein				4
		discrete spots				5
		irregular blotches				6
<b>29.</b> (*)	<b>Leaf: area covered by anthocyanin</b>					
<b>QN</b>	(d)	small				3
		medium				5
		large				7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>30.</b>	<b>Bud: color</b>					
<b>PQ</b>	RHS Colour Chart (indicate reference number)					
<b>31.</b>	<b>Sepal: color</b>					
<b>PQ</b>	RHS Colour Chart (indicate reference number)					
<b>32. (*)</b>	<b>Flower: width</b>					
<b>QN</b>	narrow					3
	medium					5
	broad					7
<b>33.</b>	<b>Petal: shape</b>					
<b>PQ</b>	ovate					1
	obovate					2
	rhomboidal					3
	obtrullate					4
	elliptic					5
<b>34. (*)</b>	<b>Upper petal: length</b>					
<b>QN</b>	short					3
	medium					5
	long					7
<b>35. (*)</b>	<b>Upper petal: width</b>					
<b>QN</b>	narrow					3
	medium					5
	broad					7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>36.</b>	<b>Upper petal: length/width ratio</b>					
<b>QN</b>	low					3
	medium					5
	high					7
<b>37. (* (+)</b>	<b>Petal: main color of inner surface</b>					
<b>PQ</b>	(e) RHS Colour Chart (indicate reference number)					
<b>38. (* (+)</b>	<b>Petal: presence of secondary color of inner surface</b>					
<b>QL</b>	(e) absent					1
	present					9
<b>39. (* (+)</b>	<b>Petal: distribution of secondary color of inner surface</b>					
<b>PQ</b>	(e) at the tip					1
	at the margins					2
	along the veins					3
	at the base					4
	at the base and along the veins					5
<b>40. (* (+)</b>	<b>Petal: secondary color of inner surface</b>					
<b>PQ</b>	(e) RHS Colour Chart (indicate reference number)					
<b>41.</b>	<b>Style: color</b>					
<b>PQ</b>	(e) RHS Colour Chart (indicate reference number)					

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>42.</b>		<b>Stamen: color of filament</b>					
<b>PQ</b>	(e)	RHS Colour Chart (indicate reference number)					

## 8. Explanations on the Table of Characteristics

### 8.1 *Explanations covering several characteristics*

Unless otherwise indicated, all characteristics should be observed at the time of full flowering.

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

- (a) To be observed on the whole plant in full flower, including the flowering stems.
- (b) To be observed on the entire flowering stem.
- (c) To be observed on young leaves as they expand
- (d) To be observed on fully expanded leaves from the middle third of the non flowering part of the stem
- (e) Color observations should be assessed made early in the day on fresh fully expanded flowers, before they start to fade.

### 8.2 *Explanations for individual characteristics*

#### Ad. 11: Stem: color

To be observed on the flowering part of the stem

#### Ad. 22: Leaf: main color

The main color is the one with the largest surface area.

#### Ad. 37: Petal: main color of inner surface

The main color is the one with the largest surface area.

#### Ad. 38: Petal: secondary color of inner surface

The secondary color is the one with the second largest surface area.



9.     Literature

Brickell, C. (ed.), 1996: The Royal Horticultural Society A-Z Encyclopedia of Garden Plants. Dorling Kindersley Ltd., London. GB.

Huxley, A. (ed.), Griffiths, M. (ed.), Levy, M. (ed.), 1999: The Royal Horticultural Society Dictionary of Gardening. McMillan Reference Ltd., London, GB.

10. Technical Questionnaire

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

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

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# Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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## 4.2 Method of propagating the variety

### 4.2.1 Vegetative propagation

- (a) cuttings [ ]
- (b) *in vitro* propagation [ ]
- (c) other (state method) [ ]

### 4.2.2 Seed [ ]

- (a) Self-pollination [ ]
- (b) Cross-pollination
  - (i) population [ ]
  - (ii) synthetic variety [ ]
- (c) Hybrid [ ]  
(please provide details)
- (d) Other [ ]  
(please provide details)

### 4.2.3 Other [ ] (please provide details)

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
<p>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).</p>			
Characteristics	Example Varieties	Note	
<b>5.1 Plant: growth habit</b> <b>(3)</b>			
upright		1	
semi-upright		2	
rounded		3	
spreading		4	
<b>5.2 Leaf: main color of upper surface</b> <b>(22)</b>			
light green		1	
medium green		2	
dark green		3	
grey green		4	
<b>5.3 Leaf: variegation</b> <b>(23)</b>			
absent		1	
present		9	
<b>5.4 Leaf: anthocyanin</b> <b>(27)</b>			
absent		1	
present		9	
<b>5.5 Petal: main color of inner surface</b> <b>(37)</b>			
white		1	
light pink		2	
medium pink		3	
dark pink		4	
red		5	

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note	
<b>5.6 Petal: secondary color of inner surface</b> <b>(38)</b>			
absent		1	
present		9	
<b>5.7 Petal: distribution of secondary color of inner surface</b> <b>(39)</b>			
at the tip		1	
at the margins		2	
along the veins		3	
at the base		4	
at the base and along the veins		5	
<b>5.8 Petal: secondary color of inner surface</b> <b>(40)</b>			
white		1	
light pink		2	
medium pink		3	
dark pink		4	
red		5	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
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6. Similar varieties and differences from these varieties

*Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.*

Denomination(s) of 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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Petal: main color</i>	<i>white</i>	<i>dark pink</i>

Comments:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 Are there any special conditions for growing the variety or conducting the examination?

Yes     ☐                                      No     ☐

(If yes, please provide details)

7.3 Other information

7.3.1 Main use

(a) garden plant                                      ☐     ☐

(b) pot plant    ☐     ☐

(c) cut-flower     ☐     ☐

(d) other     ☐     ☐

(please provide details)

7.3.2 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.

# Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined or submitted for examination.

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.

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:

(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 [ ]

Please provide details for where you have indicated “yes”.

.....

10. 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]