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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
 GENEVA

DRAFT

HUSK TOMATO *

(*Physalis philadelphica* Lam.;
Physalis ixocarpa Brot.)

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*to be considered by the
 Technical Working Party for Vegetables at its thirty-seventh session,
 to be held in Roelofarendsveen, Netherlands, from June 23 to 27, 2003*

Alternative Names: *

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Physalis philadelphica</i> Lam.; <i>Physalis ixocarpa</i> Brot.	Husk Tomato	-	Tomatillo	Tomatillo, Tomate verde, Tomate de cáscara

ASSOCIATED DOCUMENTS

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

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

<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 Duration of Tests	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	19
[8.1 Explanations covering several characteristics]	19
[8.2 Explanations for individual characteristics]	19
9. LITERATURE	20
10. TECHNICAL QUESTIONNAIRE	21

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Physalis philadelphica* Lam. and *Physalis ixocarpa* Brot.

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 seed.

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

15 g.

2.4 The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. [In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.]

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

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

3. Method of Examination

3.1 *Duration of Tests*

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

3.2 *Testing Place*

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

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.

3.3.1 Type of observation – visual or measurement

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 25 plants, which should be divided between two and more replicates].

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 25 plants or parts taken from each of 25 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 minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

4.1.3 Clear Differences

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

4.2 *Uniformity*

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

4.2.2 For the assessment of uniformity, a population standard of 1 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 25, 2 off-types are 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 seed stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness is aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where 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) Plant: growth habit (characteristic 1)
- (b) Stem: anthocyanin coloration (characteristic 4)
- (c) Fruit: color (characteristic 24)

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

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

6.2 *States of Expression and Corresponding Notes*

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

6.3 *Types of Expression*

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

6.4 *Example Varieties*

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

6.5 *Legend*

(*) Asterisked characteristic – see Section 6.1.2

(QL) Qualitative characteristic – see Section 6.3

(QN) Quantitative characteristic – see Section 6.3

(PQ) Pseudo-qualitative characteristic – see Section 6.3

(a) – (c) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1]

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

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

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*)	Seedling: anthocyanin coloration			Plántula pigmentación antociánica:		
	(a)	absent		ausente		1
		present		presente		9
2. (*)	Plant: growth habit (at beginning of flowering)			Planta: tipo de crecimiento (al inicio de la floración)		
	(b)	erect		erecto		3
		semi-erect		semi-erecto		5
		prostrate		postrado		7
3. (*)	Stem: height to the first branching			Tallo: altura a la primera bifurcación		
	(b)	short		corta		3
		medium		intermedia		5
		long		larga		7
4. (*)	Stem: anthocyanin coloration (as for 2, upper first branching)			Tallo: pigmentación antociánica (como en 2, arriba de la primera bifurcación)		
	(b)	absent		ausente		1
		present		presente		9
5. (*)	Stem: anthocyanin coloration in internodes (as for 2)			Tallo: pigmentación antociánica en entrenudos (como en 2)		
	(b)	absent		ausente		1
		present		presente		9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6. (*)	Stem: anthocyanin coloration in internodes (as for 2)			Tallo: pigmentación antociánica en entrenudos (como en 2)		
(b)	weak			débil		3
	medium			media		5
	strong			fuerte		7
7. (*)	Stem: pubescence			Tallo: pubescencia		
(b)	absent or very weak			ausente o muy débil		1
	weak			débil		3
	medium			media		5
	strong			fuerte		7
	very strong			muy fuerte		9
8.	Leaf: shape			Hoja: forma		
(b)	ovate			oval		1
	lanceolate			lanceolada		2
9. (*)	Leaf: anthocyanin coloration(upper side)			Hoja: pigmentación antociánica en el haz		
(b)	absent			ausente		1
	present			presente		9
10.	Leaf: length			Hoja: longitud		
(b)	short			corta		3
	medium			media		5
	long			larga		7
11.	Leaf: width			Hoja: anchura		
(b)	narrow			angosta		3
	medium			media		5
	broad			ancha		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
12.	Leaf: color			Hoja: color		
(b)	green			verde		1
	green-yellow			amarillo verdoso		2
	yellow-green			verde amarillento		3
	green-purple			morado verdoso		4
	purple green			verde morado		5
13.	Leaf: intensity of color			Hoja: intensidad del color		
(b)	light			claro		3
	medium			medio		5
	dark			oscuro		7
14.	Leaf: pubescence			Hoja: pubescencia		
(b)	sparse			escasa		3
	medium			media		5
	dense			densa		7
15. (*)	Petiole: anthocyanin pigmentation			Pecíolo: pigmentación antocianica		
	absent			ausente		1
	present			presente		9
16.	Petiole: attitude			Pecíolo: porte		
	semi-erect			semi-erecto		3
	horizontal			horizontal		5
	drooping			colgante		7
17.	Petiole: length			Pecíolo: longitud		
	short			corta		3
	medium			media		5
	long			larga		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18. (*)	Flower: time of flowering			Flor: tiempo a floración		
	early			precoz		3
	medium			media		5
	late			tardía		7
19.	Flower: attitude			Flor: porte		
	erect			erecto		1
	semi-erect			semi-erecto		3
	horizontal			horizontal		5
	drooping			colgante		7
	strongly drooping			muy colgante		9
20.	Flower: color of anthers			Flor: color de anteras		
	white			blanco		1
	yellow			amarillo		2
	purple			morado		3
21. (*)	Flower: anthocyanin pigmentation			Flor: pigmentación antociánica		
	absent			ausente		1
	present			presente		9
22. (*)	Fruit: time of physiological maturity			Fruto: tiempo a madurez fisiológica		
	early			precoz		3
	medium			media		5
	late			tardía		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
23. (*)	Fruit: anthocyanin coloration(at physiological maturity)			Fruto: pigmentación antociánica (en madurez fisiológica)		
	absent			ausente		1
	present			presente		9
24. (*)	Fruit: color (at physiological maturity)			Flor: color (en madurez fisiológica)		
	yellow			amarillo		1
	green-yellow			amarillo verdoso		2
	purple yellow			amarillo morado		3
	yellow-purple			morado amarillento		4
	green-purple			morado verdoso		5
25.	Fruit: intensity of color (at physiological maturity)			Fruto: intensidad del color (en madurez fisiológica)		
	light			claro		3
	medium			medio		5
	dark			oscuro		7
26.	Fruit: adherence of calyx (physiological maturity)			Fruto: adherencia del cáliz (en madurez fisiológica)		
	absent or very weak			ausente o muy débil		1
	weak			débil		3
	medium			media		5
	strong			fuerte		7
	very strong			muy fuerte		9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
27 (*)	Fruit: shape of apex (physiological maturity)			Fruto: forma del ápice (en madurez fisiológica)		
	pointed			puntiaguda		1
	rounded			redondeada		2
	cleft			hendida		3
28. (*)	Fruit: time of commercial maturity			Fruto: tiempo a madurez comercial		
	early			precoz		3
	medium			media		5
	late			tardía		7
29. (*)	Fruit: anthocyanin coloration			Fruto: pigmentación antocianica		
	(c) absent			ausente		1
	present			presente		9
30. (*)	Fruit: color			Fruto: color		
	(c) yellow			amarillo		1
	yellow green			verde amarillento		2
	green-yellow			amarillo verdoso		3
	green			verde		4
	purple green			verde morado		5
	green-purple			morado verdoso		6
31.	Fruit: intensity of color			Fruto: intensidad del color		
	(c) light			claro		3
	medium			medio		5
	dark			oscuro		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
32. (*)	Fruit: length			Fruto: longitud		
(c)	short			corta		3
	medium			media		5
	Long			larga		7
33.	Fruit: width			Fruto: anchura		
(c)	small			pequeño		3
	medium			medio		5
	large			grande		7
34.	Fruit: ratio width/length			Fruto: relación ancho/largo		
(c)	small			pequeña		3
	medium			media		5
	large			grande		7
35.	Fruit: shape in longitudinal section			Fruto: forma longitudinal		
(c)	flattened			aplanada		1
	round			redonda		2
	cordate			cordiforme		3
	square			cuadrangular		4
	triangular			triangular		5
36.	Fruit: shape of cross section			Fruto: forma transversal		
(c)	elliptic			elíptica		1
	angular			angular		2
	circular			circular		3
37.	Fruit: glossiness			Fruto: brillo		
(c)	weak			débil		3
	medium			media		5
	strong			fuerte		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
38.	Fruit: number of locule			Fruto: número de lóculos		
(c)	two			dos		1
	three			tres		2
	four			cuatro		3
	more than five			cinco o más		4
39.	Fruit: covering of calyx			Fruto: cobertura del cáliz		
(c)	uncovered			descubierto		3
	partially covered			parcialmente cubierto		5
	covered			cubierto		7
40. (*)	Fruit: anthocyanin coloration of calyx			Fruto: pigmentación antociánica del cáliz		
(c)	absent			ausente		1
	present			presente		9
41. (*)	Fruit: ribbing of calyx			Fruto: acostillado del cáliz		
(c)	absent			ausente		1
	present			presente		9
42.	Fruit: adherence of calyx)			Fruto: adherencia del cáliz		
(c)	absent			ausente		1
	present			presente		9
43.	Fruit: degree of adherence of calyx			Fruto: grado de adherencia del cáliz		
(c)	weak			débil		3
	medium			media		5
	strong			fuerte		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
44.	Fruit: depth at base			Fruto: profundidad de la base		
(c)	shallow			poco profunda		3
	medium			media		5
	deep			profunda		7
45.	Fruit: texture			Fruto: textura		
(c)	smooth			lisa		1
	rough			rugosa		2
46.	Fruit: taste			Fruto: sabor		
(c)	very acid			muy ácido		1
	acid			ácido		2
	slightly acid			ligeramente ácido		3
	slightly sweet			ligeramente dulce		4
	sweet			dulce		5
	very sweet			muy dulce		6
47.	Fruit: length of peduncle			Fruto: longitud del pedúnculo		
(c)	short			corto		3
	medium			medio		5
	long			largo		7
48.	Fruit: diameter of peduncle			Fruto: diámetro del pedúnculo		
(c)	small			pequeño		3
	medium			medio		5
	large			grande		7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
49.	Fruit: portion of flesh (relative to fruit)			Fruto: proporción de pulpa (con relación al fruto)		
(c)	¼			¼		1
	½			½		2
	¾			¾		3
	completely full			completamente lleno		4
50.	Fruit: density of flesh			Fruto: densidad de la pulpa (como en 29)		
(c)	sparse			laxa		3
	medium			media		5
	dense			densa		7
51.	Fruit: dry matter content			Fruto: contenido de materia seca		
(c)	low			bajo		3
	medium			medio		5
	high			alto		7
52.	Fruit: amount of seeds			Fruto: cantidad de semillas		
(c)	few			pocas		3
	medium			medio		5
	many			muchas		7
53. (*)	Seed: color			Semilla: color		
(c)	white			blanco		1
	yellow			amarillo		2
	brown yellow			amarillo café		3
	brown			café		4
	dark brown			café oscuro		5

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
54. (*)	Seed: diameter			Semillas: diámetro		
(c)	small			pequeño		3
	medium			medio		5
	large			grande		7
55.	Seed: length			Semilla: longitud		
(c)	short			corta		3
	medium			media		5
	long			larga		7
56.	Seed: weight per 1000 seeds			Semilla: peso de 100 semillas		
(c)	low			bajo		3
	medium			medio		5
	high			alto		7
57.	Resistance to <i>Verticillium</i>			Resistencia a <i>Verticillium</i>		
	absent			ausente		1
	present			presente		9
58.	Resistance to <i>Fusarium</i>			Resistencia a <i>Fusarium</i>		
	absent			ausente		1
	present			presente		9
59.	Resistance to <i>Cladosporium</i>			Resistencia a <i>Cladosporium</i>		
	absent			ausente		1
	present			presente		9
60.	Resistance to <i>Phytophthora</i>			Resistencia a <i>Phytophthora</i>		
	absent			ausente		1
	present			presente		9

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
61.	Resistance to <i>Rizoctonia</i>			Resistencia a <i>Rizoctonia</i>		
	absent			ausente		1
	present			presente		9
62.	Resistance to <i>Pseudomonas</i>			Resistencia a <i>Pseudomonas</i>		
	absent			ausente		1
	present			presente		9
63.	Resistance to mosaic virus			Resistencia a virus del mosaico		
	absent			ausente		1
	present			presente		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:

- (a) Seedling: The observation of seedling should be made at stage of 10 cm.
- (b) Plant, stem and leaf: All observations on the plant, stem and leaf should be made at beginning of flowering.
- (c) Fruit and seed: Unless other wise indicated, all observations on the fruit and seed should be made at commercial maturity.

8.2 *Explanations for individual characteristics*

[still to be prepared]

9. Literature

{xx}

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p>TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p> <p>ASW 13 [In the case of hybrid varieties which are the subject of an application for plant breeders' rights, and where the parent lines are to be submitted as a part of the examination of the hybrid variety, this Technical Questionnaire should be completed for each of the parent lines, in addition to being completed for the hybrid variety.]</p>		
1. Subject of the Technical Questionnaire		
1.1 Latin Name	<input type="text" value="Physalis philadelphica Lam.;
Physalis ixocarpa Brot."/>	
1.2 Common Name	<input type="text" value="Husk Tomato"/>	
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"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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3. Proposed denomination and breeder's reference

Proposed denomination
(if available)

Breeder's reference

4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme **ASW 15**

[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) totally unknown cross

4.1.2 Mutation
(please state parent variety)

4.1.3 Discovery
(please state where, when and how developed)

4.1.4 Other
(please provide details)]

4.2 Method of propagating the variety

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:
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6. Similar varieties and differences from these varieties

Please use the table, and space provided for comments, below 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 similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>		<i>(example to be inserted)</i>	<i>(example to be inserted)</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 Special conditions for the examination of the variety

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

Yes [] No []

7.2.2 If yes, please give details:

7.3 Other information

ASW 16 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.

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

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 or pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details of 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]