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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

CHICK-PEA

UPOV Code(s): CICER_ARI

Cicer arietinum L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from France
to be considered by the
Technical Working Party for Vegetables
at its fifty-fourth session, to be held in Brasilia, Brazil,
from 2020-05-11 to 2020-05-15*

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Cicer arietinum</i> L.	Chick-Pea	Pois chiche	Kichererbse	Garbanzo

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 *Cicer arietinum* L.

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of seeds.

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

5,000 seeds

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.

2.4 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 conducted 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 Each test should be designed to result in a total of at least 100 plants, which should be divided between at least 2 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 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

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

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

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

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts of plants taken from each of 20 plants and any other observations 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 non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 *Uniformity*

- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 These Test Guidelines have been developed for the examination of seed-propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.
- 4.2.3 The assessment of uniformity for cross-pollinated should be according to the recommendations for cross-pollinated varieties in the General Introduction.
- 4.2.4 For the assessment of uniformity of seed-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 100 plants, 3 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 further examined by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
- (a) Time of flowering (characteristic 7)
 - (b) Flower: color (characteristic 8)
 - (c) Seed: color (characteristic 14)
 - (d) Seed: shape (characteristic 17)
 - (e) Seed: ribbing (characteristic 18)
- 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 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

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 du caractère en français	Name des Merkmals auf Deutsch	Nombre del carácter en español		
		states of expression	types d'expression	Ausprägungsstufen	tipos de expresión		

- 1 Characteristic number
- 2 (*) Asterisked characteristic – see Chapter 6.1.2
- 3 Type of expression
 QL Qualitative characteristic – see Chapter 6.3
 QN Quantitative characteristic – see Chapter 6.3
 PQ Pseudo-qualitative characteristic – see Chapter 6.3
- 4 Method of observation (and type of plot, if applicable)
 MG, MS, VG, VS – see Chapter 4.1.5
- 5 (+) See Explanations on the Table of Characteristics in Chapter 8.2
- 6 (a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Not applicable

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. (*)	QN MS/VG					
	Plant: habit					
	erect				Olga, Tauriton	1
	semi-erect				Flamenco, Lambada, Rondo, Twist	3
	prostrate				Lechoso, Solera	5
2.	QN VS					
	Plant: ramification					
	weak				Castor	3
	medium				Flamenco, Lechoso, Puchero, Rondo	5
	strong				Olga, Tauriton	7
3. (*)	QN MS/VG					
	Plant: height					
	short				Castor	3
	medium				Tauriton	5
	tall				Fardon	7
4. (*)	QL VS	(+)				
	Stem: anthocyanin coloration					
	absent				Benito, Twist	1
	present				Castor, Elmo, Olga	9
5. (*)	QN VG	(a)				
	Foliage: intensity of green color					
	light				Benito	3
	medium				Elvar	5
	dark				Tizon	7
6. (*)	QN MS/VS	(+)	(a)			
	Leaflet: size					
	very small				Castor	1
	small				Elmo, Melgar	3
	medium				Lambada	5
	large				Benito	7
	very large					9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	QN MG	(+)				
	Time of flowering					
	very early				Benito	1
	early				Amethyst, Italica	3
	medium				Kaveri	5
	late				Tizon, Twist	7
	very late				Salsa	9
8. (*)	QL VG					
	Flower: color					
	white				Benito, Twist	1
	purplish pink				Amethyst, Castor	2
9. (*)	QN MS/VS	(+)	(b)			
	Pod: peduncle length					
	short				Elmo	3
	medium				Twist	5
	long				Tauriton	7
10. (*)	QN VS		(b)			
	Pod: size					
	very small				Castor	1
	small				Elmo	3
	medium				Duraton	5
	large				Lechoso	7
	very large				Italica	9
11.	QN VG		(b)			
	Pod: intensity of green color					
	light				Benito	3
	medium				Twist	5
	dark				Tizon	7
12.	QN MS/VS	(+)	(b)			
	Pod: length of beak					
	short				Elmo	3
	medium				Elvar, Twist	5
	long				Garbine	7

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. (*)	QN	MS	(+)	(b)				
	Pod: number of seeds							
	predominantly one						Lechoso	1
	one and two						Olga	2
	predominantly two						Elmo	3
14. (*)	PQ	VG	(+)					
	Seed: color							
	whitish						Benito, Lechoso	1
	yellow							2
	light brown						Twist	3
	yellowish brown						Castor	4
	brown						Amethyst	5
	reddish brown						Olga	6
	green brown						CDC Jade	7
	black						Elmo	8
15.	QN	VG						
	Seed: intensity of color							
	light							3
	medium							5
	dark							7
16. (*)	QN	MG	(+)					
	Seed: weight							
	very low						Castor	1
	low						Elmo	3
	medium						Twist	5
	high						Benito	7
	very high						Italica, Ituci, Lechoso	9
17. (*)	PQ	VG	(+)					
	Seed: shape							
	round						Olga, Vulcano	1
	round to angular						Flamenco, Twist	2
	angular						Amethyst, Castor	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
18. (*)	QN	VG	(+)				
	Seed: ribbing						
	absent or very weak					Fardon, Olga	1
	weak					Tauriton	3
	medium					Twist	5
	strong					Benito	7
	very strong					Castor, Italica, Ituci, Lechoso	9
19. (*)	QN	VG	(+)				
	Time of dry seed maturity						
	very early					Amethyst	1
	early					Inmaculada, Lerma	3
	medium					Rondo, Tauriton	5
	late					Twist	7
	very late					Reale	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) Foliage: observations should be made at the time of flowering
- (b) Pod: observations should be made at the green stage of seeds fully developed in size.
- (c) Foliage: observations on the foliage should be made at the time of flowering.

8.2 *Explanations for individual characteristics*

Ad. 4: Stem: anthocyanin coloration



1
absent



9
present

Ad. 6: Leaflet: size



3
small

5
medium

7
large



9
very large

Ad. 7: Time of flowering

Observation has to be done when 80% of plants present at least one flower.

Ad. 9: Pod: peduncle length



3
short

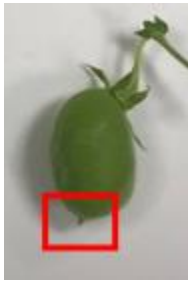


5
medium

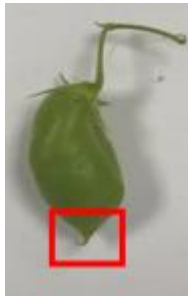


7
long

Ad. 12: Pod: length of beak



3
short



5
medium



5
long

Ad. 13: Pod: number of seeds



Percentage of pods with at least 2 seeds

$\leq 10\%$
predominantly one
1

between 10% to 60%
one and two
2

$> 60\%$
predominantly two
3

Ad. 14: Seed: color



1
whitish



2
yellow



3
light brown



4
yellowish brown



5
brown



6
reddish brown



7
green brown

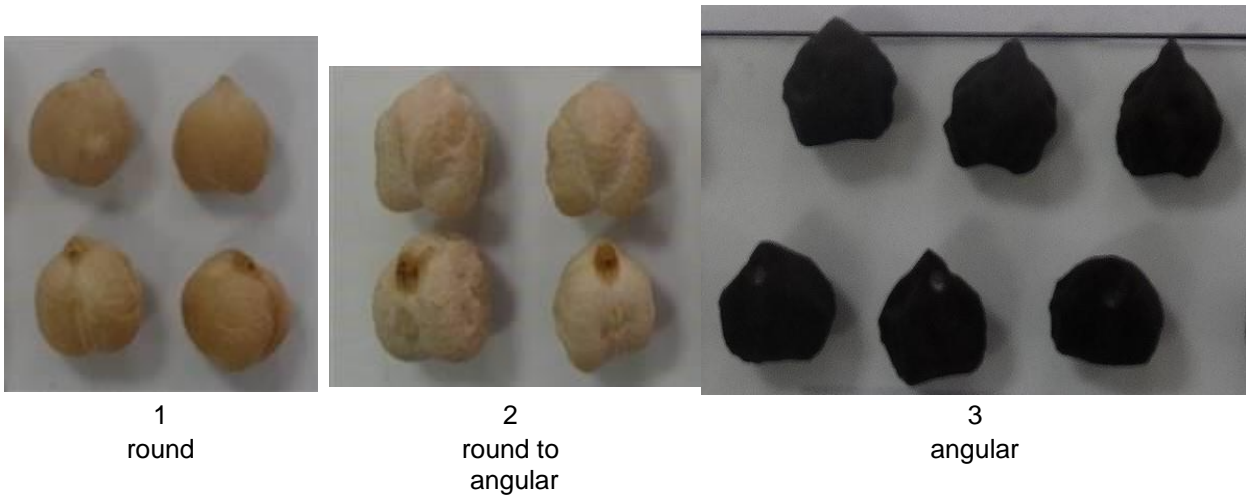


8
black

Ad. 16: Seed: weight

The seed weight should be measured on two samples of 100 seeds. Then a measurement scale has to be built thanks to the results of the reference varieties.

Ad. 17: Seed: shape



Ad. 18: Seed: ribbing



Ad. 19: Time of dry seed maturity

to observe one month after harvest.

9. Literature

ICRISAT, ICARDA and IBPGR, 1985: "Chick-pea descriptors", IBPGR Secretariat, Rome, IT, 15 pp.

Maesen, L.J.G. van der, 1972: "Cicer L., a monograph of the genus with special reference to the chick-pea (*C. arietinum* L.), its ecology and cultivation", Meded. Landbouwhogeschool, Wageningen, NL, 72, pp. 1-136

Saxena, M.C. and Singh, K.B., 1987: "The Chick-pea", C.A.B. International (ICARDA), SY, 409 pp.

Smartt, J., 1990: "Grain Legumes" (especially Chapter 6: "Pulses of the classical world, pp. 176-244), Cambridge University Press, Cambridge, GB

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="Cicer arietinum L."/>
1.2	Common name	<input type="text" value="Chick-Pea"/>
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:
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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 []

(b) partially known cross []

(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)

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	Seed-propagated varieties	
(a)	Self-pollination	[]
(b)	Inbred line	[]
(c)	Other (please provide details)	[]
	<input type="text"/>	
4.2.2	Other (Please provide details)	[]
	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 Plant: habit (1)		
erect	Olga, Tauriton	1 []
semi-erect	Flamenco, Lambada, Rondo, Twist	3 []
prostrate	Lechoso, Solera	5 []
5.2 Plant: ramification (2)		
weak	Castor	3 []
medium	Flamenco, Lechoso, Puchero, Rondo	5 []
strong	Olga, Tauriton	7 []
5.3 Plant: height (3)		
short	Castor	3 []
medium	Tauriton	5 []
tall	Fardon	7 []
5.4 Time of flowering (7)		
very early	Benito	1 []
early	Amethyst, Italica	3 []
medium	Kaveri	5 []
late	Tizon, Twist	7 []
very late	Salsa	9 []
5.5 Flower: color (8)		
white	Benito, Twist	1 []
purplish pink	Amethyst, Castor	2 []
5.6 Pod: number of seeds (13)		
predominantly one	Lechoso	1 []
one and two	Olga	2 []
predominantly two	Elmo	3 []

Characteristics	Example Varieties	Note
5.7 Seed: color (14)		
whitish	Benito, Lechoso	1 []
yellow		2 []
light brown	Twist	3 []
yellowish brown	Castor	4 []
brown	Amethyst	5 []
reddish brown	Olga	6 []
green brown	CDC Jade	7 []
black	Elmo	8 []
5.8 Seed: weight (16)		
very low	Castor	1 []
low	Elmo	3 []
medium	Twist	5 []
high	Benito	7 []
very high	Italica, Ituci, Lechoso	9 []
5.9 Seed: shape (17)		
round	Olga, Vulcano	1 []
round to angular	Flamenco, Twist	2 []
angular	Amethyst, Castor	3 []
5.10 Seed: ribbing (18)		
absent or very weak	Fardon, Olga	1 []
weak	Tauriton	3 []
medium	Twist	5 []
strong	Benito	7 []
very strong	Castor, Italica, Ituci, Lechoso	9 []
5.11 Time of dry seed maturity (19)		
very early	Amethyst	1 []
early	Inmaculada, Lerma	3 []
medium	Rondo, Tauriton	5 []
late	Twist	7 []
very late	Reale	9 []

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	Characteristic(s) in which your candidate variety differs	Describe the expression of the characteristic(s) for the	Describe the expression of the characteristic(s) for your
<i>Example</i>	<i>Plant: ramification</i>	<i>medium</i>	<i>strong</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

A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.

The key points to consider when taking a photograph of the candidate variety are:

- Indication of the date and geographic location
- Correct labeling (breeder's reference)
- Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)"

Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (<http://www.upov.int/tgp/en/>).

[The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]

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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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.

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]