

TG/HIBIS(proj.4) ORIGINAL: English DATE: 2009-08-05

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

# DRAFT

### HIBISCUS

UPOV Code: HIBIS

Hibiscus syriacus L.

### **GUIDELINES**

### FOR THE CONDUCT OF TESTS

### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Republic of Korea

to be considered by the Technical Working Party for Ornamental Plants and Forest Trees at its forty-second session, to be held in Angers, France, from September 14 to 18, 2009

Alternative Names:\*

Latin	English	French	German	Spanish
Hibiscus syriacus L.	Hibiscus, Rose-mallow	Hibiscus	Hibiskus, Roseneibisch	Hibisco

The purpose of theses 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.

<sup>\*</sup> 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. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of Hibiscus L. of the genus Malvaceae.

### 2. <u>Material Required</u>

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 rooted young plants or rooted cuttings. Plants should be of sufficient size and maturity to flower and show their other representative characteristics the first year.

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

### 8 rooted cuttings, graftings or more than three years seedlings not pinched.

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. <u>Method of Examination</u>

### 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. In particular, unless otherwise indicated, all observations should be made on fully grown, typical organs at the time of full flowering.

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

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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 8 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 on single plants should be made on 8 plants or parts taken from each of 8 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 8 plants, one 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. <u>Grouping of Varieties and Organization of the Growing Trial</u>

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) Plant: growth habit (characteristic 1)
- (b) Leaf blade: variegation (characteristic 16)
- (c) Flower: type (characteristic 19)
- (d) Flower: color group (characteristic 23)
- (e) Petal: number of colors on inner side (eye zone excluded) (characteristic 31)
- (f) Petal: main color on inner side (eye zone excluded) (characteristic 32)

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

### 6. <u>Introduction to the Table of Characteristics</u>

### 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)-(b) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

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

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	Plant: growth hal	bit				
PQ	upright					1
	upright to spreadin	lg				2
	spreading					3
	drooping					4
2.	Plant: height					
QN	low				Antong Two	3
	medium					5
	high					7
3.	Plant: density of branching					
QN	sparse					3
	medium					5
	dense					7
4.	Current year branch: color on					
(+)	distal part					
PQ	greenish					1
	brownish					2
	purplish					3
5.	Stem: pubescence	<u>)</u>				
QN	absent or sparse					1
	medium					2
	dense				Antong Two	3

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6.		Petiole: length					
QN		short					3
		medium					5
		long					7
7. (*)		Leaf blade: length					
QN	(a)	short					3
		medium					5
		long					7
<b>8.</b> (*)		Leaf blade: width					
QN	(a)	narrow					3
		medium					5
		broad					7
9.		Leaf blade: shape					
(+)							
PQ	(a)	medium ovate					1
		broad ovate					2
		rhombic					3
		cordate					4
10.		Leaf blade: shape of base	f				
(+)		base					
PQ	(a)	acute					1
		obtuse					2
		round					3
		cordate					4

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
11.		Leaf blade: intensity of green color of upper side	y				
QN	(a)	light					3
		medium					5
		dark					7
12.		Leaf blade: glossiness of upper side					
QN	(a)	weak					3
		medium					5
		strong					7
13.		Leaf blade: incision	S				
(+)							
QN	(a)	sparse				Lady Stanley	3
		medium					5
		dense					7
14. (*) (+)		Leaf blade: depth of lobing	f				
QN	(a)	absent or very shallow					1
		shallow					3
		medium					5
		deep				Sukim	7
15. (+)		Leaf blade: undulation					
QN	(a)	absent or weak					1
		medium					2
		strong					3

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
16. (*)		Leaf blade: variegation					
QL	(a)	absent				Antong Two	1
		present				Jodi	9
17. (+)		Only varieties with variegation: Leaf blade: type of					
(1)		variegation					
PQ	(a)	regular				Purpureus	1
		irregular				Jodi, American Irene Scott	2
18.		Only varieties with variegation: Leaf blade: color of variegation					
PQ	(a)	white					1
		white and yellow					2
		yellow				Purpureus	3
		yellow and green				Jodi	4
		white and red					5
<b>19.</b> (*) (+)		Flower: type					
QL	(b)	single				Antong Two	1
		semi-double				Lady Stanley	2
		double				Lucy	3
20.		Flower: attitude of basal petals					
(+)		basai petais					
PQ	(b)	strongly ascending					1
		moderately ascendin	g				2
		horizontal				Antong Two	3
		moderately recurved					4
		strongly recurved					5

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
21.		Only varieties with					
(+)		single and semi- double flowers: Flower: arrangement of basal petals					
QN	<b>(b)</b>	free					1
		touching					2
		slightly overlapping				Lady Stanley	3
		strongly overlapping					4
22. (*) (+)		Flower: diameter					
QN	(b)	small					3
		medium					5
		large				Blue Bird	7
23. (*) (+)		Flower: color group	)				
PQ	(b)	white or near white				Diana	1
		pink				American Irene Scott	2
		red				Aka-hanagasa	3
		red purple					4
		purple					5
		violet					6
		violet blue				Notwood3	7
24.		Flower: eye zone					
(+)							
QL	(b)	absent				Diana	1
		present				Antong Two	9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
25.		<u>Only varities with</u> eye zone: Flower:					
(+)		size of eye zone relative to petal (stripes excluded)					
QN	(b)	small					3
		medium					5
		large					7
<b>26.</b> (+)		Only varities with eye zone: Eye zone: length of extension					
QN	(b)	absent or very short					1
		short					2
		medium					3
		long					4
27.		Only varities with eye zone: Eye zone: main color					
PQ	(b)	RHS Colour Chart (indicate reference number)					
28.		Petal: length					
QN	(b)	short					3
		medium					5
		long					7
29.		Petal: width					
QN	<b>(b)</b>	narrow					3
		medium					5
		broad					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
30.		Petal: shape					
(+)							
PQ	<b>(b)</b>	type 1					1
		type 2					2
		type 3					3
<b>31.</b> (*)		Petal: number of colors on inner side (eye zone excluded)					
QL	(b)	one				Antong Two	1
		two				Hamabo	2
		more than two					3
32.		Petal: main color on inner side (eye zone excluded)					
	(b)	RHS Colour Chart (indicate reference number)					
33.		<u>Only varieties with</u> <u>two or more colors</u>					
(+)		on inner side of petal: Petal: position of secondary color (eye zone excluded)	:				
PQ	(b)	left blotched				Lady Stanley	1
		right blotched					2
		margined				American Irene Scott	3
		shaded					4
34.		Petal: incisions					
<mark>(+)</mark>							
QN	(b)	absent or very weak					1
		weak					3
		medium					5
		strong					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
35.		Petal: undulation					
(+)							
QN	(b)	absent or very weak					1
		weak					3
		medium				Blue Satin	5
		strong					7
36.		<u>Only varieties with</u> <u>single and</u>					
(+)		<u>semi-double</u> <u>flower</u> s: Staminal					
		column: length					
QN	<b>(b</b> )	short					3
		medium					5
		long					7
37.		Time of beginning of flowering					
QN		very early					1
		early					3
		medium					5
		late					7
		very late					9

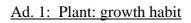
### 8. Explanations on the Table of Characteristics

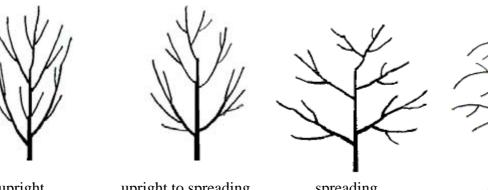
## 8.1 Explanations covering several characteristics

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

- (a) Observations on the leaves should be made on fully developed leaves in the middle third of the stem.
- (b) Observations on the flower and flower parts should be made on a fully opened flower.

# 8.2 Explanations for individual characteristics





upright 1

upright to spreading 2

spreading 3

drooping 4

3

Ad. 4: Current year branch: color on distal part

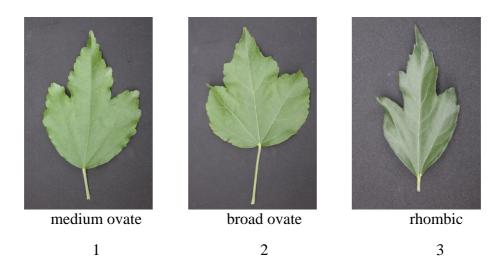


1

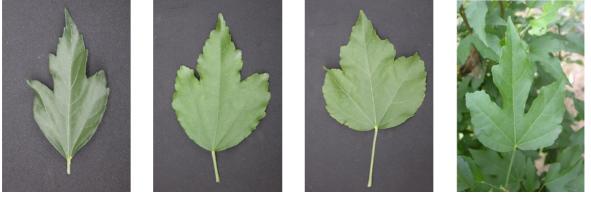
2

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### Ad. 9: Leaf blade: shape



# Ad. 10: Leaf blade: shape of base



acute 1

obtuse 2

round 3



### Ad. 13: Leaf blade: incisions



sparse 3

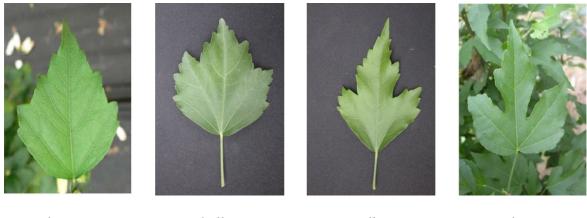


medium 5

dense 7

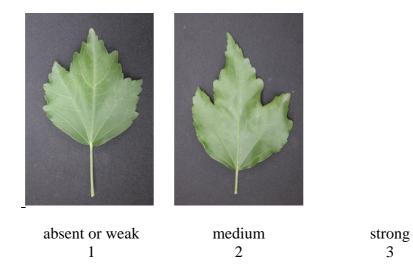
#### TG/HIBIS(proj.4) Hibiscus, 2009-08-05 - 17 -

### Ad. 14: Leaf blade: depth of lobing





### Ad. 15: Leaf blade: undulation

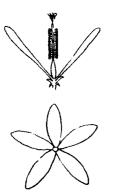


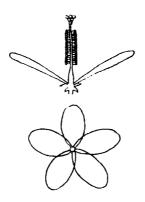
### Ad. 17: Only varieties with variegation: Leaf blade: type of variegation

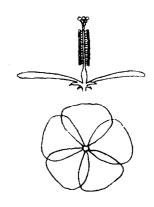


Ad. 19: Flower: type

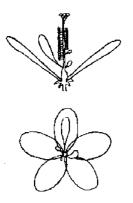
1. single



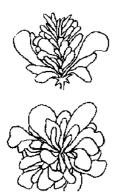


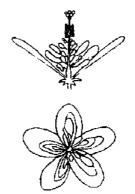


2. semi-double



3. double





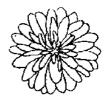












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Ad. 20: Flower: attitude of basal petals



strongly ascending 1

# moderately ascending 2



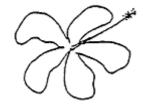


moderately recurved 4

strongly recurved 5

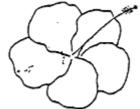
Ad. 21: Only varieties with single and semi-double flowers: Flower: arrangement of basal petals

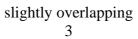




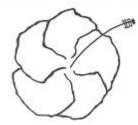
free 1











strongly overlapping 4

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### Ad. 23. Flower: color group



white or near white 1

pink



3



red purple 4



purple 5



violet blue 7

### Ad. 24: Flower: eye zone



9

### Ad. 25: Flower: size of eye zone relative to petal (stripes excluded)

1



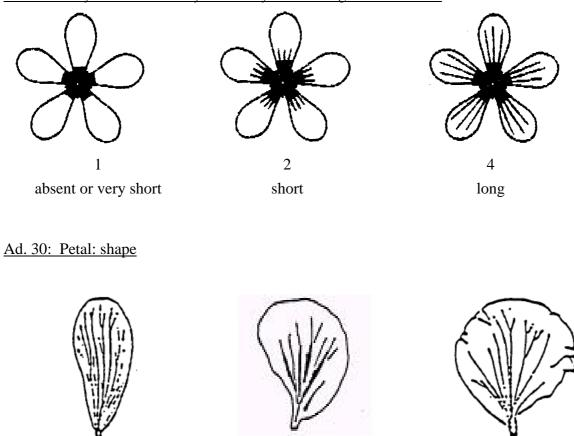
small 3





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Ad. 33: Only varieties with two or more colors on inner side of petal: Petal: position of secondary color (eye zone excluded)

2

type 2



type 1

left blotched 1



right blotched 2



3

type 3

margined

3

shaded 4

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### Ad. 35: Petal: undulation



strong 7

Ad. 36: Only varieties with single and semi-double flowers: Staminal column: length



Ad. 37: Time of beginning of flowering

First three flowers open.

# 9. <u>Literature</u>

Song Won-Seob. 2004: Hibiscus, Semyoungbook, ISBN 89-89097-21-5

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10. <u>Technical Questionnaire</u>

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 Ques	tionnaire			
1.1 Botanical Name	ibiscus syriacus L.			
1.2 Common Name	ose of Sharon			
1.3 Species Name (Please complete)				
2. Applicant				
Name				
Address				
Telephone No.				
Fax No.				
E-mail address				
Breeder (if different from applicant)				

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TECHNICAL QUESTIONNAIRE     Page {x} of {y}     Reference Nu	mber:					
3. Proposed denomination and breeder's reference     Proposed denomination						
(if available) Breeder's reference						
<sup>#</sup> 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)	[]					
<ul> <li>(b) partially known cross</li> <li>(please state known parent variety(ies))</li> <li>(c) unknown cross</li> </ul>						
4.1.2 Mutation (please state parent variety)	[ ]					
4.1.3 Discovery and development (please state where and when discovered and how devel	[ ] oped)					
4.1.4 Other (please provide details)	[]					
4.2 Method of propagating the variety						
(a) grafting	[]					
(b) cuttings	[]					
(c) other (please provide details)	[]					
4.3 Entry for rootstock						

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

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

Characteristics of the variety to be indicated (the number in brackets refers to the 5. corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

	Characteristics	Example Varieties	Note
5.1 (1)	Plant: growth habit		
	upright		1[]
	upright to spreading		2[]
	spreading		3[]
	drooping		4[]
5.2 (16)	Leaf blade: variegation		
	absent	Antong Two	1[]
	present	Jodi	9[]
5.3 (19)	Flower: type		
	single	Antong Two	1[]
	semi-double	Lady Stanley	2[]
	double	Lucy	3[]
5.4 (23)	Flower: color group		
	white or near white	Diana	1[]
	pink	American Irene Scott	2[]
	red	Aka-hanagasa	3[]
	red purple		4[]
	purple		5[]
	violet		6[]
	violet blue	Notwood3	7[]

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TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:	
	Characteristics		Example Varieties	Note
5.5 (31)	Petal: number of colors on inner s	ide (eye zone excluded)		
	one		Antong Two	1[]
	two		Hamabo	2[]
	more than two			3[]
5.6 (32)	Petal: main color on inner side (ey	e zone excluded)		
	RHS Colour Chart (indicate reference	ce number)		

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TECHNICAL QUESTIONNAIRE	Page $\{x\}$ of $\{y\}$	Reference Number:

### 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	Characteristic(s) in	Describe the expression	Describe the expression
variety(ies) similar to	which your candidate	of the characteristic(s)	of the characteristic(s)
your candidate variety	variety differs from the	for the similar	for your candidate
	similar variety(ies)	variety(ies)	variety
Example	Plant: height	short	tall

Comments:

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			i		1
TEC	HNICAL Q	UESTIONNAIRE	Page {x}	of {y}	Reference Number:
<sup>#</sup> 7.	Additiona	l information which	may help in	the examine	nation of the variety
7.1		on to the informatio stics which may help			s 5 and 6, are there any additional active equation of the set of
	Yes [	]	No [	]	
	(If yes, ple	ease provide details)			
7.2	Are there	any special condition	ns for growi	ng the vari	ety or conducting the examination?
	Yes [	]	No [	]	
	(If yes, ple	ease provide details)			
7.3	Use:				
	(a) grown	in the open: garden	type		[ ]
	(b) grown	under glass or other	protection	pot type	[ ]
7.4	Other info	ormation			
8.	Authoriza	tion for release			
0.			prior autho	rization for	r release under legislation concerning
		tion of the environme	-		
	Yes	[]	No	[]	
	(b) Has	such authorization b	een obtaine	d?	
	Yes	[]	No	[]	
	If the answ	wer to (b) is yes, plea	se attach a	copy of the	authorization.

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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TECHNICAL QUESTIONNAIRE Page	{x} of {y} Reference Number	er:
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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	a)	Yes []	No [ ]
	(b)	Chemical treatment (e.g. growth retardant, pestici	ide)	Yes []	No [ ]
	(c)	Tissue culture		Yes []	No [ ]
	(d)	Other factors		Yes []	No [ ]
	Pleas	se provide details for where you have indicated "ye	es".		
10. is co	I her rrect:	be by declare that, to the best of my knowledge, the	e informatio	n provided :	in this form
	Appl	icant's name			
	Signa	ature	Date		

[End of document]