

TG/CAMEL(proj.1)
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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

DRAFT

ORNAMENTAL CAMELLIA

UPOV Code: CMLIA

Camellia L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from China

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:*

Botanical name	English	French	German	Spanish
Camellia L.	Camellia	Camelia	Camelien	Camelia

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.

Other associated UPOV documents: TG/TEA (Camellia sinensis (L.) O. Kuntze)

^{*} 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 *Camellia* L. planted for ornamental purposes.

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 two-year-old grafted plants or rooted cuttings.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

20 grafted plants or rooted cuttings.

- 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. Observations should be made on plants which are at least one year after being planted. It is suggested that plants be cultured in the greenhouse or in the conditioned environment. The same observations on test plants are required to conduct within the same day. The growing media, fertilization and soil moisture for growing tested planted should be treated uniformly.
- 3.3.2 The recommended method of observing the characteristic is indicated by the following key in the second column of the Table of Characteristics:

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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 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

Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 plants. In the case of parts of plants, the number to be taken from each of the plants should be one.

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

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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 seed or 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) Plant: stem type (characteristic 1)
 - (b) Leaf blade: size (characteristic 10)
 - (c) Flower: form (characteristic 29)
 - (d) Flower: main color of inner side of first outside round petal (characteristic 38)
- 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

MG, MS, VG, VS: See Chapter 3.3.2

- (a)-(e) 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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7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	VG	Plant: stem type					
QN		shrub					1
		semi-arbor					3
		arbor					5
2. (*) (+)	VG	Plant: growth habit	Plante: port	Pflanze: Wuchsforn	n Planta: porte		
QN		upright	dressé	aufrecht	erecto		1
		semi-upright	demi-dressé	halbaufrecht	semierecto	Blancena, Sunmariba, Sunmaririho	3
		spreading					5
		drooping					7
3.	VG	Bud: color of fresh buds					
PQ		yellowish green					1
		green					2
		purple green					3
		purple red					4
		dark red					5
4. (+)	VG/ MS	Bud: arrangement of axilary buds in top shoot					
		single					3
		twin					5
		cluster					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
5. (*)	VG	Leaf blade: density					
QN		sparse					3
		medium					5
		dense					7
6. (*) (+)	VG	Leaf blade: arrangement					
PQ		penniform					3
		cross					5
		spiry					7
7. (*) (+)	VG	Leaf: attitude					
QN		upwards					1
		outwards					3
		downwards					5
8. (*)	VG	Leaf blade: thickness					
QN		thin					1
		medium					3
		thick					5
9. (*)	VG	Leaf blade: flexility					
QN		low					1
		medium					3
		high					5

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10. (*)	VG	Leaf blade: size					
QN		very small					1
		small					3
		medium					5
		large					7
		very large					9
11. (*) (+)	VG	Leaf blade: shape					
PQ		ovate					1
		obovate					2
		broad ovate					3
		elliptic					4
		elongated oblong					5
		lanceolate					6
12.	VG	Leaf blade: pubescence					
QL		absent					1
		present					9
13.	VG	Leaf: visibility of veins					
QN		veak					3
		medium					5
		strong					7
14. (*)	VG	Leaf blade: shine of upper surface	•				
QN		weak					3
		medium					5
		strong					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15. (*)	VG	Leaf blade: color of upper matured leaves					
QN		yellowish green					1
		green					2
		bottle green					3
		dark green					4
16.	VG	Leaf blade: spots					
(+)							
QL		absent					1
		present					9
17.	VG	Leaf blade: cross section					
<mark>(+)</mark>		section					
QN		incurved					3
		flat					5
		recured					7
18. (*) (+)		Leaf blade: margin					
QL		entire					1
		serrulate					2
		serrate					3
		denticulate					4
		irregular					5

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
19. (*) (+)	VG	Leaf blade: shape o base	f				
PQ		acute					1
		obtuse					2
		rounded					3
		auriculate					4
20. (*) (+)	VG	Leaf blade: apex shape					
PQ		caudate					1
		acuminate					2
		apiculate					3
		obtuse					4
		rounded					5
		retuse					6
		laciniate					7
21.	VG	Leaf blade: length of acuminate tip	f				
(+)		ucummute tip					
QN		short					3
		medium					5
		long					7
22.	VG/ MS	Leaf blade: length of petiole	f				
QN		absent					1
		short					3
		medium					5
		long					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
23.	VG	Shoot: color of young shoot					
PQ		yellowish green					1
		green					2
		pink					3
		reddish brown					4
		yellowish brown					5
24.	VG	Bract or sepal: shape					
PQ		elliptic					1
		ovate					2
		obovate					3
25.	VG	Bract or sepal: color of outer side	•				
PQ		yellowish green or green					1
		yellow					2
		purple red					3
		brown					4
26.	VG	Bract or sepal: shape of tip					
QN		acuminate					1
		obtuse					2
		retuse					3
27.	VG	Flower bud: type					
(+)							
		acrogenous					1
		axillary					2

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
28. (*)	VG/ MS	Flower: diameter					
QN		very small					1
		small					3
		medium					5
		large					7
		very large					9
29. (*) (+)	VG	Flower: form					
?		single					1
		semi-double					2
		anemone form					3
		peony form					4
		rose form double					5
		formal double					6
30.		Flower: thickness of petal	ľ				
QN		thin					3
		medium					5
		thick					7
31.	VG	Flower: shape of petal tip					
PQ		obtuse					1
		rounded					2
		retuse					3

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
32.	VG	Flower: margin of					
(+)		petal					
QL		entire					1
		serrate					9
33.	VG	Flower: curliness of petal					
QL		incurved					3
		flat					5
		recured					7
34. (*)	VG	Flower: shape of petals of first outside round	•				
PQ		ovate					1
		obovate					2
		elongated obovate					3
		elliptic					4
		rounded					5
35. (*)	VG	Flower: undulation of petal					
QN		absent or weak					1
		medium					3
		strong					5
36.	VG	Flower: visibility of petal veins					
QN		weak					1
		strong					9
37.	VG	Flower: type of sepal coloration	I				
?		single					1
		multiple					9

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
38. (*)	VG	Flower: main color of inner side of first outside round petal					
PQ		RHS Colour Chart (indicate reference number)					
39. (*) (+)	VG	Flower: distribution pattern of secondary color					
PQ		spot					1
		radiated stripe					2
		dot and stripe					3
		purfle					4
40.	VG	Flower: position of secondary color in petal					
PQ		even					1
		base					2
		center					3
		margin					4
41.	MS	Flower: secondary color of inner side of first outside round sepals					
PQ		RHS Colour Chart (indicate reference number)					
42.		Flower: quantity of stamen					
QN		absent					1
		small					3
		medium					5
		large					7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
43. (*) (+)	VG	Flower: stamen form					
PQ		sasanqua					1
		circular					2
		apricot					3
		tea whisk					4
		pinched					5
		tubular					6
		split					7
		dispersed					8
44.	VG	Flower: petalisation of stamen					
PQ		absent					1
		partly					2
		anther					3
		entire					4
45.	VG	Flower: quantity of splitted style					
QN		one					1
		two					2
		three					3
		four					4
		five					5
46. (+)	VG	Flower: position of style splitting					
QN		low					3
		medium					5
		high					7

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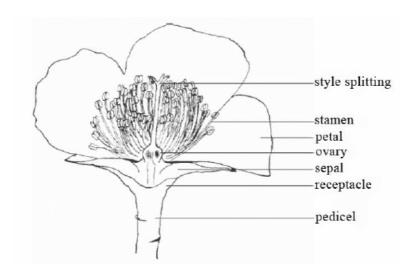
		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
47. (+)	VG/ MS	Flower: position of stigma relative to stamens					
		below					3
		same level					5
		above					7
48.	VG	Flower: ovary hairs					
QL		absent					1
		present					9
49.	VG	Flower: frequency of flowering in a year					
QN		single					1
		multiple					9
50. (*)	VG	Flower: time of full blossom of the single flowering variety	•				
QN		very early					1
		early					3
		medium					5
		late					7

8. <u>Explanations on the Table of Characteristics</u>

8.1 Explanations covering several characteristics

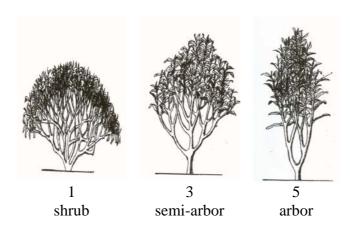
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) Observations should be made on buds in the spring.
- (b) Observations should be made on the first round developed young shoots.
- (c) Observations should be made on the matured leaves in the middle shoots in the summer or autumn season.
- (d) Observations should be made on the fully blossoming season.
- (e) Flower: diagram

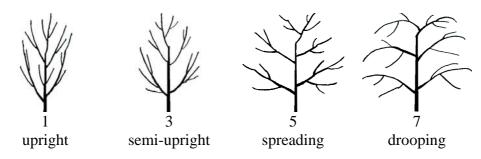


8.2 Explanations for individual characteristics

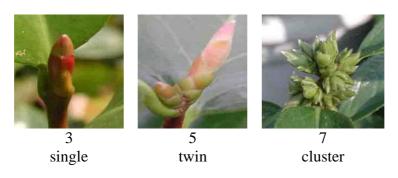
Ad. 1: Plant: stem type



Ad. 2: Plant: growth habit



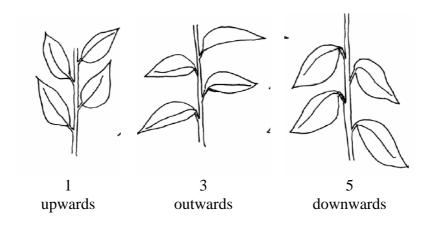
Ad. 4: Bud: arrangement of axilary buds in top shoot



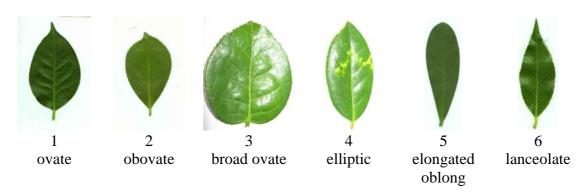
Ad. 6: Leaf blade: arrangement

[to be provided]

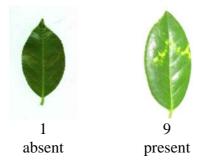
Ad. 7: Leaf: attitude



Ad. 11: Leaf blade: shape



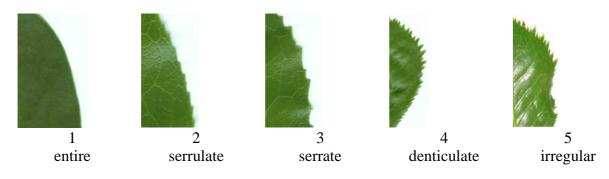
Ad. 16: Leaf blade: spots



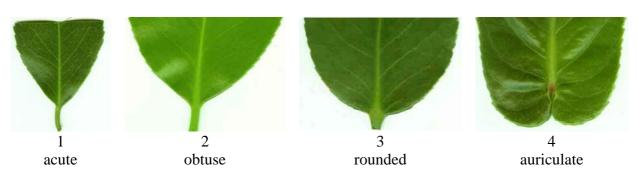
Ad. 17: Leaf blade: cross section

[to be provided]

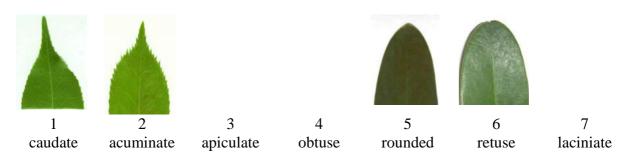
Ad. 18: Leaf blade: margin



Ad. 19: Leaf blade: shape of base



Ad. 20: Leaf blade: apex shape



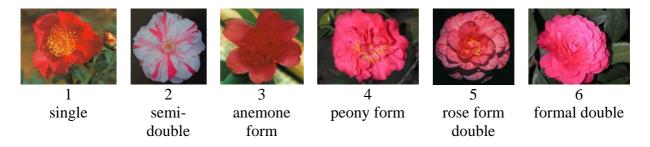
Ad. 21: Leaf blade: length of acuminate tip



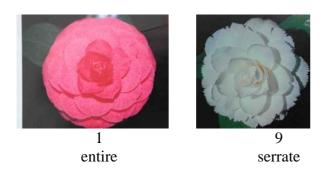
Ad. 27 Flower Bud: type



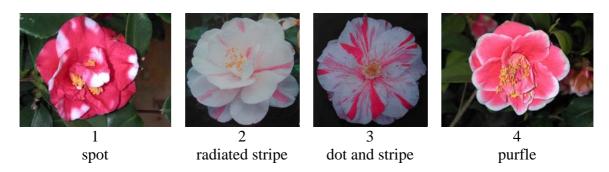
Ad. 29: Flower: form



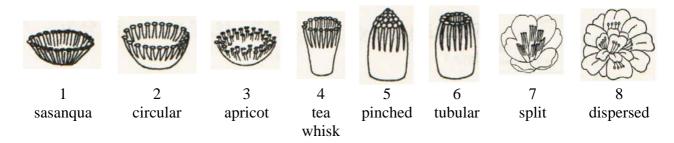
Ad. 32: Flower: margin of petal



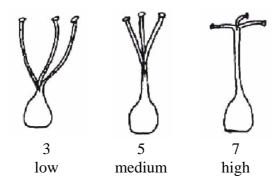
Ad. 39: Flower: distribution pattern of secondary color



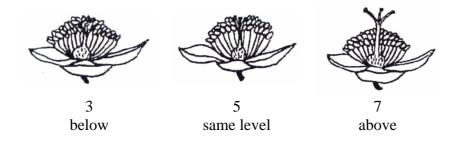
Ad. 43: Flower: stamen form



Ad. 46: Flower: position of style splitting



Ad. 47: Flower: position of stigma relative to stamens



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9. Literature

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10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIR			RE 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 Qu	ıesti	onnaire				
	1.1 Botanical name	Car	mellia L.				
	1.2 Common name	Car	nellia				
2.	Applicant						
	Name						
	Address						
	Telephone No.						
	Fax No.						
	E-mail address						
	Breeder (if different from a	ppli	cant)				
3.	Proposed denomination and	l bre	eeder's reference				
	Proposed denomination [(if available)						
	Breeder's reference						

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

Information on the breeding scheme and propagation of the variety						
4.1	Breedi	ng scheme				
	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)	[]			
4.2 Method of propagating the variety						
	(a) cuttings		[]			
	(b) in vitro propagation	[]			
	(c) other (state method)	[]			
	4.1	4.1.1 4.1.2 4.1.3 Method of p	 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) Method of propagating the variety (a) cuttings (b) in vitro propagation 			

[#] 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:

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 (1)	Plant: stem type		
	shrub	Xiaomeigui	1[]
	semi-arbor	Hongluzhen	3[]
	arbor	Songzilin	5[]
5.2 (10)	Leaf blade: size		
	very small		1[]
	small		3[]
	medium		5[]
	large		7[]
	very large		9[]
5.3 (29)	Flower: form		
	single		1[]
	semi-double		2[]
	anemone form		3[]
	peony form		4[]
	rose form double		5[]
	formal double		6[]
5.5 (38)	Flower: main color of inner side of first outside round petal		
	RHS Colour Chart (indicate reference number)		

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TECHNICAL QUESTI	ONNAIRE	Page {x} o	of {y}	Reference Nu	ımber:			
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	Characteris which your variety differ similar var	candidate rs from the	of the cha	the expression aracteristic(s) e similar ety(ies)	Describe the expression of the characteristic(s) for your candidate variety			
Example	[e.g. Flowe	r color]	[e.g. o	range]	[e.g. orange red]			
Comments:	Comments:							

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

[#] 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 ye	s, pleas	se provide d	etails)			
7.2	Are t	here an	y special co	onditions for gro	owing 1	the variety or conducting the examination?	
	Yes	[]	l	No	[]		
	(If ye	s, pleas	se provide d	etails)			
7.3	Othe	r inforn	nation				
8.	Auth	orizatio	on for releas	e			
	(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	answe	r to (b) is ye	es, please attach	a cop	y of the authorization.	

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

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TEC	HNICAL	L QUESTIONNAIRE	Page {x} of {y}	Reference N	umber:				
		_							
9.	Information on plant material to be examined or submitted for examination.								
effec	O.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 ree, etc.								
reque treati	2.2 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, f the plant material to be examined has been subjected to:								
	(a) M	Microorganisms (e.g. viru	s, bacteria, phytoplas	ma)	Yes []	No []			
	(b) C	Chemical treatment (e.g. §	growth retardant, pest	icide)	Yes []	No []			
	(c) T	Cissue culture			Yes []	No []			
	(d) C	Other factors			Yes []	No []			
	Please provide details for where you have indicated "yes".								
9.3 patho	9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?								
	Yes	[]							
	(ple	ease provide details as sp	pecified by the Author	rity)					
	No []								
10. form	I hereb	by declare that, to the bect:	est of my knowledge	e, the informa	tion provid	ed in this			
	Applica	ant's name							
	Signatu	ıre		Date [