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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

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DRAFT

WEIGELA

UPOV Code(s): WEIGE

Weigela Thunb.

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 Ornamental Plants and Forest Trees
at its fifty-fifth session, to be held virtually
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Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
<i>Weigela</i> Thunb.	Weigela	Weigela	Weigelie	Weigela

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.]

TABLE OF CONTENTS	PAGE
1. SUBJECT OF THESE TEST GUIDELINES.....	3
2. MATERIAL REQUIRED.....	3
3. METHOD OF EXAMINATION.....	3
3.1 Number of Growing Cycles.....	3
3.2 Testing Place.....	3
3.3 Conditions for Conducting the Examination.....	3
3.4 Test Design.....	4
3.5 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.....	6
6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS.....	8
6.1 Categories of Characteristics.....	8
6.2 States of Expression and Corresponding Notes.....	8
6.3 Types of Expression.....	8
6.4 Example Varieties.....	8
6.5 Legend.....	9
7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES.....	10
8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS.....	23
8.1 Explanations covering several characteristics.....	23
8.2 Explanations for individual characteristics.....	25
9. LITERATURE.....	32
10 TECHNICAL QUESTIONNAIRE.....	33

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Weigela* Thunb.

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 plants (two years old) on their own roots.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:
- 6 plants
- 2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

- 3.1.1 The minimum duration of tests should normally be a single growing cycle.
- 3.1.2 The testing of a variety may be concluded 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*

- 3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.
- 3.3.2 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description.

3.4 *Test Design*

- 3.4.1 Each test should be designed to result in a total of at least 6 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 *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 5 plants or parts of plants taken from each of 5 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 vegetatively 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 For the assessment of uniformity of vegetatively 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 6 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 further examined by testing a new plant 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) Plant: growth habit (characteristic 3)
 - (b) Shoot: color (characteristic 5)
 - (c) Leaf blade: main color (characteristic 16)
 - (d) Leaf blade: secondary color (characteristic 17)
 - (e) Leaf blade: presence of tertiary color (characteristic 19)
 - (f) Inflorescence: type (characteristic 24)
 - (g) Flower: presence of different colored flowers on the same plant (characteristic 28)
 - (h) Only varieties with Flower: presence of different colored flowers on the same plant:
absent: Corolla lobe: main color of outer side (characteristic 29) with the following groups: Gr. 1: white
Gr. 2: yellow
Gr. 3: pink
Gr. 4: red
Gr. 5: purple
 - (i) Only varieties with Flower: presence of different colored flowers on the same plant:
absent: Corolla lobe: main color of inner side (characteristic 32) with the following groups:
Gr. 1: white
Gr. 2: yellow
Gr. 3: pink
Gr. 4: red
Gr. 5: purple

- (j) Only varieties with Flower: presence of different colored flowers on the same plant: present: Corolla lobe: main color of outer side of the predominantly present flower (characteristic 35) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
- (k) Only varieties with Flower: presence of different colored flowers on the same plant: present: Corolla lobe: main color of inner side of the predominantly present flower (characteristic 36) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
- (l) Only varieties with Flower: presence of different colored flowers on the same plant: present: Corolla lobe: main color of outer side of the second predominantly present flower (characteristic 37) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
- (m) Only varieties with Flower: presence of different colored flowers on the same plant: present: Corolla lobe: main color of inner side of the second predominantly present flower (characteristic 38) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
- (n) Only varieties with Flower: presence of different colored flowers on the same plant: present: Corolla lobe: main color of outer side of the third predominantly present flower (characteristic 39) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
- (o) Only varieties with Flower: presence of different colored flowers on the same plant: present: Corolla lobe: main color of inner side of the third predominantly present flower (characteristic 40) with the following groups:
 - Gr. 1: white
 - Gr. 2: pink
 - Gr. 3: red
 - Gr. 4: purple
- (p) Corolla throat: color of blotch (characteristic 42)
- (q) Time of beginning of flowering (characteristic 44)

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 All relevant states of expression are presented in the characteristic.

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)-(j) 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	MG/VG	(a)				
	Plant: height						
	very short					Elvera	1
	very short to short						2
	short					Bokraspark	3
	short to medium						4
	medium					Wagneri	5
	medium to tall						6
	tall					Girondin	7
	tall to very tall						8
	very tall					Le Printemps	9
2.	QN	VG	(a)				
	Plant: height in relation to width						
	taller than broad					Alexandra	1
	as tall as broad					Bokraspark	2
	broader than tall					Styriaca	3
3. (*)	QN	VG	(+)	(a)			
	Plant: growth habit						
	upright						1
	upright to spreading						2
	spreading						3
	drooping						4
4.	QN	VG	(a)				
	Plant: density						
	sparse					Fiesta	1
	sparse to medium						2
	medium					Kolsunn	3
	medium to dense						4
	dense					TVP2	5

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5. (*)	PQ	VG	(b)				
	Shoot: color						
	green					Candida	1
	red					Courtadur	2
	brownish purple					Alexandra	3
6.	QN	VG	(+)	(b)			
	Shoot: shape in cross-section						
	rounded					Maximowiczii	1
	rounded to slightly angular					Courtadur	2
	angular					Descartes	3
7.	QN	VG	(+)	(b), (c)			
	Leaf blade: attitude in relation to shoot						
	upwards					Kolmagira	1
	outwards					Kolsunn	2
	downwards					Styriaca	3
8.	QN	MG/MS/VG	(+)	(b), (c)			
	Leaf blade: length						
	very short						1
	very short to short						2
	short					Bokraspark	3
	short to medium						4
	medium					Wagneri	5
	medium to long						6
	long					Conquête	7
	long to very long						8
	very long						9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9.	QN	MG/MS/VG	(+)	(b), (c)				
	Leaf blade: width							
	very narrow							1
	very narrow to narrow							2
	narrow						Bokraspark	3
	narrow to medium							4
	medium						Wagneri	5
	medium to broad							6
	broad						Conquête	7
	broad to very broad							8
	very broad							9
10. (*)	PQ	VG		(b), (c)				
	Leaf blade: shape							
	ovate						Styriaca	1
	elliptic						TVP2	2
	obovate						Canary	3
11.	QN	VG	(+)	(b), (c)				
	Leaf blade: profile in cross-section							
	concave						Wings of fire	1
	flat							2
	convex						Bokraspark	3
12.	QN	VG	(+)	(b), (c)				
	Leaf blade: blistering							
	absent or weak						Alexandra	1
	weak to medium						Courtared	2
	medium						Féerie	3
	medium to strong						Courtatom	4
	strong						Caricature	5
13. (*)	QN	VG		(b), (c)				
	Leaf blade: pubescence of lower side							
	absent or sparse						Venusta	1
	medium						TVP2	2
	dense						Courtadur	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
14.	QN	VG	(+)	(b), (c)				
	Leaf blade: undulation of margin							
	absent or weak						Alexandra	1
	medium						Kosteriana Variegata	2
	strong						Courtared	3
15.	QN	VG		(b), (c)				
	Leaf blade: incisions of margin							
	absent or shallow						Caricature	1
	medium						Alexandra	2
	deep						Styriaca	3
16. (*)	PQ	VG		(b), (c), (d), (e)				
	Leaf blade: main color							
	yellow						Newzako	1
	light green						Golden candy	2
	medium green						Styriaca	3
	dark green						Bristol Ruby	4
	purple						Alexandra	5
17. (*)	PQ	VG		(b), (c), (e), (f)				
	Leaf blade: secondary color							
	none						Alexandra	1
	white						Kolsunn	2
	yellowish white						Verweig	3
	yellow						Brigela	4
	yellow green						Milk and Honey	5
	dark green						Olympiade	6
18.	PQ	VG	(+)	(b), (c), (e), (f)				
	Leaf blade: distribution of secondary color							
	on margin only						Marginata Alba	1
	marginal zone						Brigela	2
	central zone						Olympiade	3
	irregular						Milk and Honey	4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (*)	QL	VG	(b), (c), (e), (f)				
	Leaf blade: presence of tertiary color						
	absent					Alexandra	1
	present					Kolmagira, Verweig	9
20.	PQ	VG	(b), (c), (e), (f)				
	Leaf blade: tertiary color						
	RHS Colour Chart (indicate reference number)						
21.	PQ	VG	(+)				
	Flower bud: color						
	RHS Colour Chart (indicate reference number)						
22.	PQ	VG	(+)	(g)			
	Sepal: color						
	green					Candida	1
	red					Verweig 4	2
23.	QN	VG	(g)				
	Sepal: pubescence						
	absent or sparse						1
	medium						2
	dense						3
24. (*)	QL	VG	(+)				
	Inflorescence: type						
	solitary flower					Elvera	1
	simple panicle					Verweig 4	2
	compound panicle					Courtadur	3
25.	QN	MG/VG	(g), (h)				
	Corolla: length						
	short						1
	medium						2
	long						3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
26.	QN	MG/VG	(g), (h)				
	Corolla: width						
	very narrow					Slingpink	1
	very narrow to narrow						2
	narrow					Candida	3
	narrow to medium						4
	medium					Fiesta	5
	medium to broad						6
	broad					Courtadur	7
	broad to very broad						8
	very broad					Conquête	9
27.	QN	VG	(g), (h)				
	Corolla: length in relation to width						
	longer than broad					TVP2	1
	as long as broad					Bristol Ruby	2
	broader than long					Brigela	3
28. (*)	QL	VG	(+)				
	Flower: presence of different colored flowers on the same plant						
	absent						1
	present						9
29. (*)	PQ	VG	(d), (g), (h)				
	<u>Only varieties with Flower: presence of different colored flowers on the same plant: absent: Corolla lobe: main color of outer side</u>						
	RHS Colour Chart (indicate reference number)						

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
30.	PQ	VG	(f), (g), (h)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: absent: Corolla</u> <u>lobe: secondary color</u> <u>of outer side</u>						
	RHS Colour Chart (indicate reference number)						
31.	PQ	VG	(+) (f), (g), (h)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: absent: Corolla</u> <u>lobe: distribution of</u> <u>secondary color of</u> <u>outer side</u>						
	on margin only						1
	marginal zone						2
	central zone						3
32. (*)	PQ	VG	(d), (g), (h)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: absent: Corolla</u> <u>lobe: main color of</u> <u>inner side</u>						
	RHS Colour Chart (indicate reference number)						
33.	PQ	VG	(f), (g), (h)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: absent: Corolla</u> <u>lobe: secondary color</u> <u>of inner side</u>						
	RHS Colour Chart (indicate reference number)						

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
34.	QN	VG	(+)	(f), (g), (h)			
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: absent:</u> Corolla lobe: area of secondary color on the margin of inner side						
	small						1
	medium						2
	large						3
35. (*)	PQ	VG		(g), (h), (i)			
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: present:</u> Corolla lobe: main color of outer side of the predominantly present flower						
	RHS Colour Chart (indicate reference number)						
36. (*)	PQ	VG		(g), (h), (i)			
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: present:</u> Corolla lobe: main color of inner side of the predominantly present flower						
	RHS Colour Chart (indicate reference number)						
37. (*)	PQ	VG		(g), (h), (j)			
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: present:</u> Corolla lobe: main color of outer side of the second predominantly present flower						
	RHS Colour Chart (indicate reference number)						

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
38. (*)	PQ	VG	(g), (h), (j)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: present:</u> Corolla lobe: main color of inner side of the second predominantly present flower						
	RHS Colour Chart (indicate reference number)						
39. (*)	PQ	VG	(g), (h), (j)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: present:</u> Corolla lobe: main color of outer side of the third predominantly present flower						
	RHS Colour Chart (indicate reference number)						
40. (*)	PQ	VG	(g), (h), (j)				
	<u>Only varieties with</u> <u>Flower: presence of</u> <u>different colored</u> <u>flowers on the same</u> <u>plant: present:</u> Corolla lobe: main color of inner side of the third predominantly present flower						
	RHS Colour Chart (indicate reference number)						
41.	QN	VG	(+)	(g)			
	Corolla lobe: attitude						
	erect					Bokrarob	1
	semi erect					Gloire des bosquets	2
	horizontal					Olympiade	3
42. (*)	PQ	VG	(+)	(g)			
	Corolla throat: color of blotch						
	none						1
	yellow					Courtadur	2
	orange yellow					Bokrarob	3
	yellow or red					Mango	4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
43. (*)	QN	VG	(+)				
	Stigma: position in relation to anthers						
	same level					Kolmas	1
	slightly above					Olympiade	2
	strongly above					Styriaca	3
44. (*)	QN	MG/VG	(+)				
	Time of beginning of flowering						
	very early					Canary	1
	very early to early						2
	early					Bokraspark, Pink Princess	3
	early to medium						4
	medium					Abel Carrière	5
	medium to late						6
	late					Bokrarob	7
	late to very late						8
	very late					Marjorie	9
45. (*)	QL	VG					
	Second flowering						
	absent					Féerie	1
	present					Slingco 4	9

8. Explanations on the Table of Characteristics

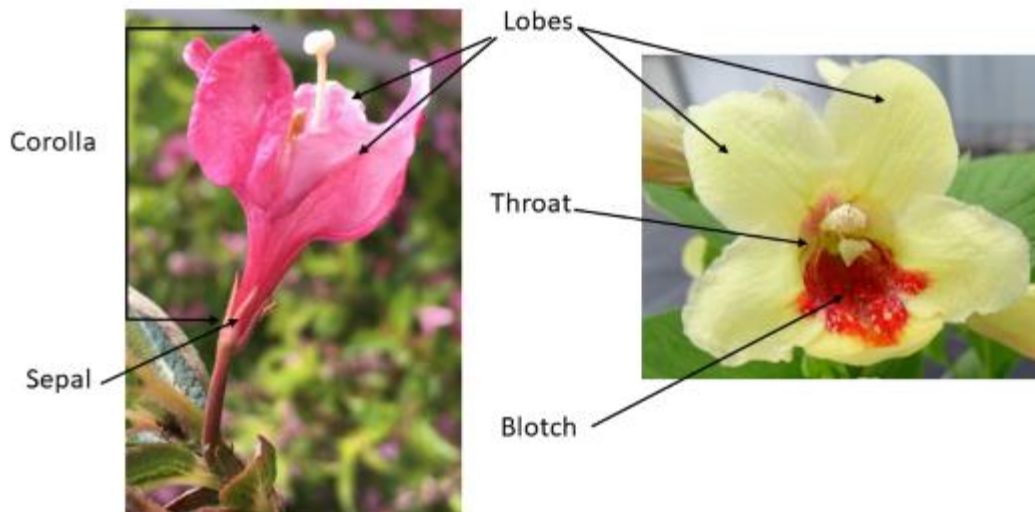
8.1 *Explanations covering several characteristics*

Unless otherwise indicated all observations should be made when 50% of the inflorescences have open flowers

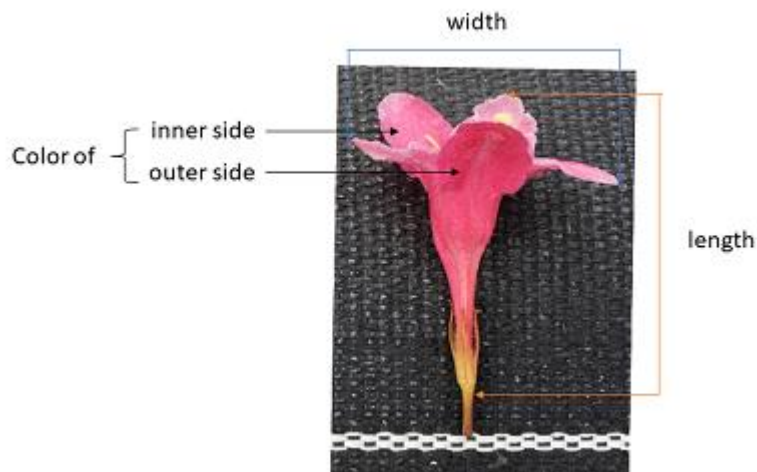
Characteristics containing the following key in the Table of Characteristics should be examined as indicated below:

- (a) Observation should be made just before flowering.
- (b) Observations should be made on current years growth.
- (c) Observations should be made on fully expanded leaves.
- (d) The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color.
- (e) Observations should be made on the upper side of the leaf blade
- (f) The secondary color is the color with the second largest surface area. In cases where the areas of the secondary and tertiary color are too similar to reliably decide which color has the largest area, the darker color is considered to be the secondary color.

(g)



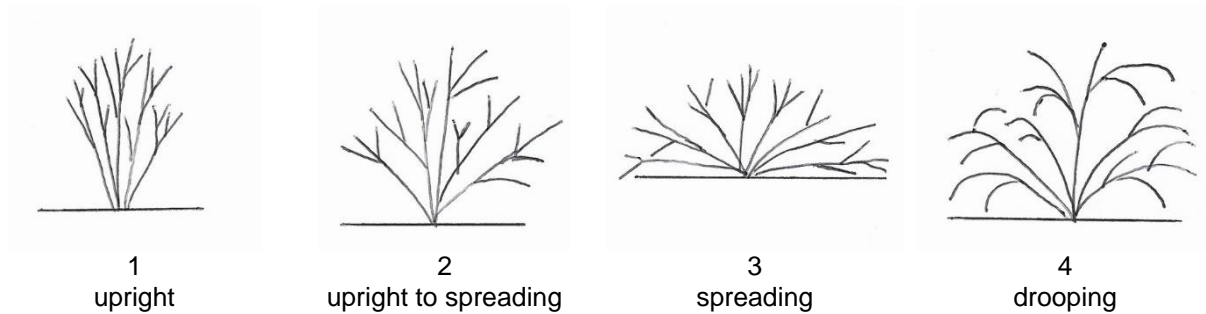
(h)



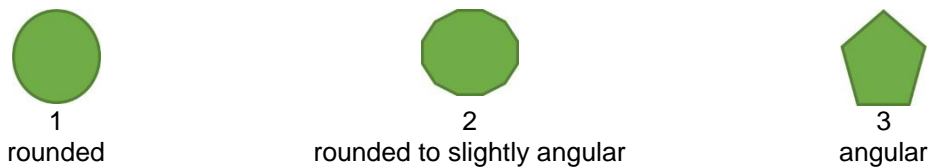
- (i) The predominantly present flower is the flower whose color occurs at the highest frequency on the plant. In cases where the frequency of the predominantly present flower and the second predominantly present flower are too similar to reliably decide which flower has the highest frequency on the plant, the flower with the darker color is considered to be the predominantly present flower.
- (j) The second predominantly present flower is the flower whose color occurs at the second highest frequency on the plant. In cases where the frequency of the second predominantly present flower and the third predominantly present flower are too similar to reliably decide which has the highest frequency, the flower with the darker color is considered to be the second predominantly present flower.

8.2 Explanations for individual characteristics

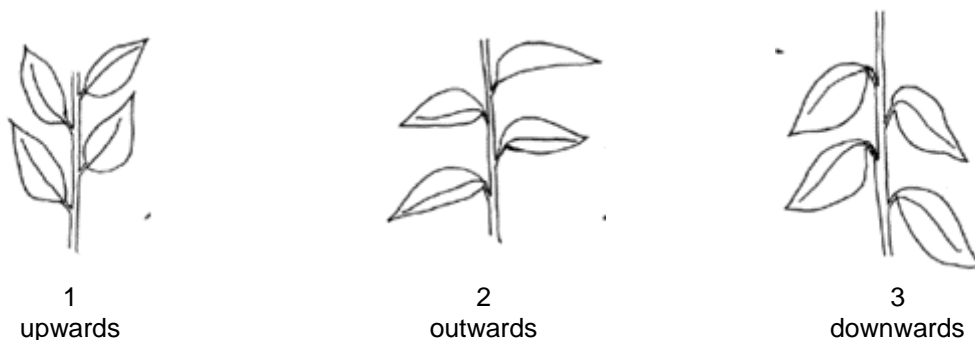
Ad. 3: Plant: growth habit



Ad. 6: Shoot: shape in cross-section



Ad. 7: Leaf blade: attitude in relation to shoot



Ad. 8: Leaf blade: length



Ad. 9: Leaf blade: width



Ad. 11: Leaf blade: profile in cross-section



1
concave



2
flat



3
convex

Ad. 12: Leaf blade: blistering



1
absent or weak



3
medium



5
strong

Ad. 14: Leaf blade: undulation of margin



1
absent or weak



3
strong

Ad. 18: Leaf blade: distribution of secondary color



1
on margin only



2
marginal zone



3
central zone

4
irregular

Ad. 21: Flower bud: color

Observation should be made just before opening of the bud.
Observation should be made on the color covering the largest surface area

Ad. 22: Sepal: color

Observation should be made on the color covering the largest surface area

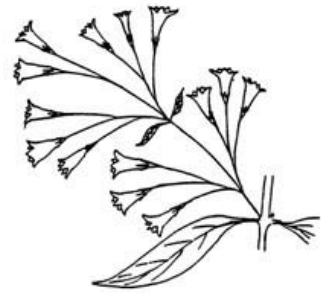
Ad. 24: Inflorescence: type



1
solitary flower



2
simple panicle



3
compound panicle

Ad. 28: Flower: presence of different colored flowers on the same plant



1
absent



9
present

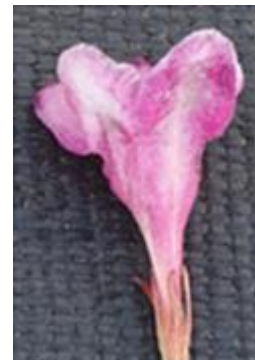
Ad. 31: Only varieties with Flower: presence of different colored flowers on the same plant: absent:
Corolla lobe: distribution of secondary color of outer side



1
on margin only



2
marginal zone



3
central zone

Ad. 34: Only varieties with Flower: presence of different colored flowers on the same plant: absent:
Corolla lobe: area of secondary color on the margin of inner side

to add illustration

April 21st: too early to make photos. Hope to show you one during the TWO

Ad. 41: Corolla lobe: attitude



1
erect



2
semi erect



3
horizontal

Ad. 42: Corolla throat: color of blotch

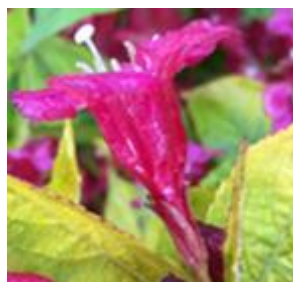
State 4 "yellow or red" means that on the same plant there are simultaneously flowers with a yellow blotch in the corolla throat and flowers with a red blotch in the corolla throat.



Ad. 43: Stigma: position in relation to anthers



1
same level



2
slightly above



3
strongly above

Ad. 44: Time of beginning of flowering

The time of beginning of flowering is reached when all plants have approximately 10% of inflorescences with open flowers.

9. Literature

Howard R., 1965: A check-list of Cultivar names in Weigela. Arnoldia volume 25, pp 9 to 11

Kruessman G., 1976 - 77: Handbuch des Laubgehölze. Bd I + II, Paul Parey, Hamburg-DE

Grootendorst, 1968: Weigela. DENDROFLORA, Nr. 5, pp 56 - 60, Boskoop-NL

De Courtye, 1992: Le Weigela. Chapitre d'ouvrage "Amélioration des espèces végétales cultivées" par A. Gallais et H. Bannerot, Edition INRA, p. 358

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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	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="Weigela Thunb."/>
1.2 Common name	<input type="text" value="Weigela"/>
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 ☐

(please state parent variety)

(.....) x (.....)

female parent

male parent

(b) partially known cross ☐

(please state known parent variety(ies))

(.....) x (.....)

female parent

male parent

(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)

--

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

4.2.1 Vegetative propagation

- | | | |
|-----|-----------------------------|-----|
| (a) | Cuttings | [] |
| (b) | <i>In vitro</i> propagation | [] |
| (c) | Other (state method) | [] |

--

4.2.2 Other []
(Please provide details)

--

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: growth habit (3)		
upright		1 []
upright to spreading		2 []
spreading		3 []
drooping		4 []
5.2 Shoot: color (5)		
green	Candida	1 []
red	Courtadur	2 []
brownish purple	Alexandra	3 []
other (please specify)		4 []
5.3 Leaf blade: main color (16)		
yellow	Newzako	1 []
light green	Golden candy	2 []
medium green	Styriaca	3 []
dark green	Bristol Ruby	4 []
purple	Alexandra	5 []
other (please specify)		6 []
5.4 Leaf blade: secondary color (17)		
none	Alexandra	1 []
white	Kolsunn	2 []
yellowish white	Verweig	3 []
yellow	Brigela	4 []
yellow green	Milk and Honey	5 []
dark green	Olympiade	6 []
other (please specify)		7 []
5.5 Leaf blade: presence of tertiary color (19)		
absent	Alexandra	1 []
present	Kolmagira, Verweig	9 []

Characteristics	Example Varieties	Note
5.6 Inflorescence: type (24)		
solitary flower	Elvera	1 []
simple panicle	Verweig 4	2 []
compound panicle	Courtadur	3 []
5.7 Flower: presence of different colored flowers on the same plant (28)		
absent		1 []
present		9 []
5.8(i) <u>Only varieties with Flower: presence of different colored</u> (29) <u>flowers on the same plant: absent: Corolla lobe: main color of</u> <u>outer side</u> RHS Colour Chart (indicate reference number)		
5.8(ii) <u>Only varieties with Flower: presence of different colored</u> (29) <u>flowers on the same plant: absent: Corolla lobe: main color of</u> <u>outer side</u>		
white		1 []
yellow		2 []
pink		3 []
red		4 []
purple		5 []
other (please specify)		6 []
5.9(i) <u>Only varieties with Flower: presence of different colored</u> (32) <u>flowers on the same plant: absent: Corolla lobe: main color of</u> <u>inner side</u> RHS Colour Chart (indicate reference number)		
5.9(ii) <u>Only varieties with Flower: presence of different colored</u> (32) <u>flowers on the same plant: absent: Corolla lobe: main color of</u> <u>inner side</u>		
white		1 []
yellow		2 []
pink		3 []
red		4 []
purple		5 []
other (please specify)		6 []

Characteristics	Example Varieties	Note
5.10(i) <u>Only varieties with Flower: presence of different colored</u> (35) <u>flowers on the same plant: present:</u> Corolla lobe: main color of outer side of the predominantly present flower RHS Colour Chart (indicate reference number)		
5.10(ii) <u>Only varieties with Flower: presence of different colored</u> (35) <u>flowers on the same plant: present:</u> Corolla lobe: main color of outer side of the predominantly present flower		
white		1 []
pink		2 []
red		3 []
purple		4 []
other (please specify)		5 []
5.11(i) <u>Only varieties with Flower: presence of different colored</u> (36) <u>flowers on the same plant: present:</u> Corolla lobe: main color of inner side of the predominantly present flower RHS Colour Chart (indicate reference number)		
5.11(ii) <u>Only varieties with Flower: presence of different colored</u> (36) <u>flowers on the same plant: present:</u> Corolla lobe: main color of inner side of the predominantly present flower		
white		1 []
pink		2 []
red		3 []
purple		4 []
other (please specify)		5 []

Characteristics	Example Varieties	Note
5.12(i) <u>Only varieties with Flower: presence of different colored</u> (37) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>outer side of the second predominantly present flower</u> RHS Colour Chart (indicate reference number)		
5.12(ii) <u>Only varieties with Flower: presence of different colored</u> (37) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>outer side of the second predominantly present flower</u>		
white		1 []
pink		2 []
red		3 []
purple		4 []
other (please specify)		5 []
5.13(i) <u>Only varieties with Flower: presence of different colored</u> (38) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>inner side of the second predominantly present flower</u> RHS Colour Chart (indicate reference number)		
5.13(ii) <u>Only varieties with Flower: presence of different colored</u> (38) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>inner side of the second predominantly present flower</u>		
white		1 []
pink		2 []
red		3 []
purple		4 []
other (please specify)		5 []

Characteristics	Example Varieties	Note
5.14(i) <u>Only varieties with Flower: presence of different colored</u> (39) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>outer side of the third predominantly present flower</u> RHS Colour Chart (indicate reference number)		
5.14(ii) <u>Only varieties with Flower: presence of different colored</u> (39) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>outer side of the third predominantly present flower</u>		
white		1 []
pink		2 []
red		3 []
purple		4 []
other (please specify)		5 []
5.15(i) <u>Only varieties with Flower: presence of different colored</u> (40) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>inner side of the third predominantly present flower</u> RHS Colour Chart (indicate reference number)		
5.15(ii) <u>Only varieties with Flower: presence of different colored</u> (40) <u>flowers on the same plant: present: Corolla lobe: main color of</u> <u>inner side of the third predominantly present flower</u>		
white		1 []
pink		2 []
red		3 []
purple		4 []
other (please specify)		5 []

Characteristics		Example Varieties	Note
5.16	Corolla throat: color of blotch		
(42)			
	none		1 []
	yellow	Courtadur	2 []
	orange yellow	Bokrarob	3 []
	yellow or red	Mango	4 []
	other (please specify)		5 []
5.17	Time of beginning of flowering		
(44)			
	very early	Canary	1 []
	very early to early		2 []
	early	Bokraspark, Pink Princess	3 []
	early to medium		4 []
	medium	Abel Carrière	5 []
	medium to late		6 []
	late	Bokrarob	7 []
	late to very late		8 []
	very late	Marjorie	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 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>Leaf blade: main color</i>	<i>yellow</i>	<i>dark green</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.]

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

<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [] No []</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [] No []</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>																		
<p>9. Information on plant material to be examined or submitted for examination</p> <p>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.</p> <p>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:</p> <table border="0"><tr><td>(a)</td><td>Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes []</td><td>No []</td></tr><tr><td>(b)</td><td>Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes []</td><td>No []</td></tr><tr><td>(c)</td><td>Tissue culture</td><td>Yes []</td><td>No []</td></tr><tr><td>(d)</td><td>Other factors</td><td>Yes []</td><td>No []</td></tr></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p>			(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 []
(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 []															
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <p>Applicant's name <input type="text"/></p> <p>Signature <input type="text"/> Date <input type="text"/></p>																		

[End of document]