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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

BERBERIS

UPOV Code(s):

BERBE

*Berberis L.***GUIDELINES****FOR THE CONDUCT OF TESTS****FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

*prepared by experts from France
to be considered by the
Technical Working Party for Ornamental Plants and Forest Trees
at its fiftieth session, to be held in Victoria, British Columbia, Canada
from 2017-09-11 to 2017-09-15*

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Berberis L.</i>	Barberry, Berberis	Berberis, Épine-vinette	Berberitze	Bérbero

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

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

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Berberis* L..

2. Material Required

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

2.2 The material is to be supplied in the form of plants capable of flowering and expressing all relevant characteristics of the variety during the first growing cycle.

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*

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.

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 second column of 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 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 seed or 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: growing type (characteristic 1)
- (b) Plant: height in relation to width (characteristic 4)
- (c) Plant: global color (characteristic 5)
- (d) Stem: spines shape (characteristic 8)
- (e) Leaf: ondulation on margin (characteristic 25)
- (f) Inflorescence: type (characteristic 27)
- (g) Fruit: shape (characteristic 33)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

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

6.1.2 Asterisked Characteristics

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

6.2 *States of Expression and Corresponding Notes*

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

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

<i>State</i>	<i>Note</i>
small	3
medium	5
large	7

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

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

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

6.3 *Types of Expression*

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

6.4 *Example Varieties*

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

6.5 Legend

		English	français	deutsch	español	Example Varieties Exemples Beispielsorten 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)-(h) 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. (*)	QL	VG	(+)				
	Plant: growing type						
	fastigiated					Helmon Pillar, Red Torch	1
	bush shaped					Bokratin	2
	rounded					Lutin Rouge	3
	spreaded					Green Ornament	4
2.	QL	VG	(+)	(a)			
	Plant: habit						
	upright					Red Torch	1
	semi-upright					Berval 1	2
	horizontal					Electra	3
	spreading					Autumnalis	4
3. (*)	QN	MG		(a)			
	Plant : height						
	short					Berval 1	3
	medium					Berval 6	5
	tall					Fire Flame	7
4. (*)	QN	VG		(a)			
	Plant: height in relation to width						
	taller than broad					Helmon Pillar	1
	as tall as broad					Berval 8	2
	broader than tall					Berval 2	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5. (*)	QL VG	(a)				
	Plant: global color					
	yellow				Berval 2	1
	green				Bokratin	2
	red				Lutin Rouge	3
	purple				Helmon Pillar	4
6.	QL VS	(b)				
	Young shoot: stem color					
	yellow				Berval 3	1
	green				Graciella	2
	orange				Berval 2	3
	red				Lutin Rouge	4
	purple				Decora	5
7.	QL VS	(b)				
	Young shoot: leaf color					
	yellow				Berval 3	1
	green				Graciella	2
	red				Lutin Rouge	3
	pink				Berval 1	4
	purple				Red Torch	5
8. (*)	QL VS	(+)	(c)			
	Stem: spines shape					
	absent					1
	simple				Red Torch	2
	trifid				Bokratin	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9.	QN VS	(c)				
	Stem: spines lenght					
	short				Golden Torch	3
	medium				Tottenham	5
	long				Dart's Superb	7
10. (*)	QL VG					
	Foliage: persistence					
	desiduous				Helmon Pillar	1
	semi-evergreen				Parkjuwell	2
	evergreen				Tottenham	3
11.	QN MG/MS	(d)				
	Leaf: lenght					
	very short				Grawley Gem	1
	short				Lutin Rouge	3
	medium				Select	5
	long				Decora	7
	very long				Dart's Superb	9
12.	QN MG/MS	(d)				
	Leaf: width					
	very narrow				Irwinii	1
	narrow				Berval 2	3
	medium				Forescate	5
	broad				Decora	7
	very broad				Red Tears	9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. (*)	QL	VS	(+)	(d)				
	Leaf: shape							
		ovate						1
		circulare						2
		elliptic						3
		lanceolate						4
		linear						5
		obovate						6
		oblanceolate						7
		spatulate						8
14.	QL	VG	(+)	(d)				
	Leaf: spine							
		absent					Berval 3	1
		only on apex					Suzanne	2
		on apex and on margin					Red Tears	3
15.	QL	VG	(+)	(d)				
	Leaf: shape of apex							
		acute					Bokratin, Irwinii	1
		obtuse					Suzanne	2
		rounded					Berval 3	3
16. (*)	PQ	VG	(+)	(d)				
	Leaf blade: main color							
		RHS Colour Chart (indicate reference number)						

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.	PQ	VG	(d), (e)				
	Leaf blade: secondary color						
	absent						1
	whitish						2
	yellow						3
	green						4
	orange						5
	pink						6
	red						7
	purple						8
18.	PQ	VG	(d), (e), (f)				
	Leaf blade: distribution of the secondary color						
	none						1
	on margin					Berval 1	2
	irregular					Hoho 1, Silver Pillar	3
19.	PQ	VG	(d), (g)				
	Leaf blade: tertiary color						
	absent						1
	whitish						2
	yellow						3
	green						4
	orange						5
	pink						6
	red						7
	purple						8

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20.	PQ	VG	(d), (f), (g)				
	Leaf blade: distribution of the tertiary color						
	none						1
	on margin						2
	irregular					Hoho 1, Silver Pillar	3
21.	PQ	VG	(d), (h)				
	Leaf blade: quaternary color						
	absent						1
	whitish						2
	yellow						3
	green						4
	orange						5
	pink						6
	red						7
	purple						8
22.	PQ	VG	(d), (f), (h)				
	Leaf blade: distribution of the quaternary color						
	none						1
	on margin						2
	irregular					Silver Pillar	3
23.	QL	VG	(d)				
	Leaf blade: glossiness						
	absent					Fireball	1
	present					Lutin Rouge	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24.	QL VG	(d)				
	Leaf: curvature					
	absent				Berval 3	1
	moderately revolute				Latifolia	2
	revolute				Irwinii	3
25. (*)	QL VG	(d)				
	Leaf: ondulation on margin					
	absent or very weak				Berval 3	1
	weak				Parkjuwell	3
	medium				Dart's Improvement	5
	strong				Terra Nova	7
	very strong				Thunderbolt	9
26.	QN VS	(d)				
	Leaves: average number per node					
	one to three				Berval 3	1
	four to six				Electra	2
	more than six				Dart's Superb	3
27. (*)	QL VG	(+)				
	Inflorescence: type					
	single flower				Grawley Gem	1
	umbel				Red Rocket	2
	raceme				Red Tears	3
	panicule				Barborossa	4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28.	QL VS					
	Flower bud: color					
	light yellow					1
	dark yellow					2
	orange					3
	red					4
29. (*)	PQ VG					
	Petal: color of inner side					
	RHS Colour Chart (indicate reference number)					
30.	PQ VG (+)					
	Petal: shape of apex					
	pointed					1
	rounded					2
	emarginated					3
31.	QL VG					
	Flowering period					
	in spring				Berval 1	1
	in spring and in autumn				Irwinii	2
	continuous flowering				Barborossa	3
32. (*)	QL VS					
	Fruit					
	absent					1
	present					9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33. (*)	QL VS	(+)				
	Fruit: shape					
	cylindric				Bokratin	1
	subglobose				Berval 6	2
	globose				Grawley Gem	3
34.	QL VS					
	Fruit: waxiness					
	absent				Berval 1	1
	present				Telstar	9
35. (*)	QL VS	(+)				
	Fruit: color					
	RHS Colour Chart (indicate reference number)					
36.	QL VS					
	Fruit: shape of tip					
	pointed				Berval 3	1
	rounded				Grawley Gem	2

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

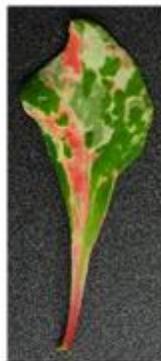
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) Observations should be made just before flowering.
- (b) Observations on shoots and leaves should be made on current year shoots.
- (c) Observations should be made on fully expanded spines from the middle third of the stem.
- (d) Observations should be made on fully expanded leaves from the middle third of the stem.
- (e) The secondary color is the color with the second largest surface area. In cases where the areas of the secondary and other colors are too similar to reliably decide which color has the largest area, the darker color is considered to be the secondary color.

(f)



2
on margin



3
irregular

- (g) The tertiary color is the color with the third largest surface area. In cases where the areas of the tertiary and other colors are too similar to reliably decide which color has the largest area, the darker color is considered to be the tertiary color.
- (h) The quaternary color is the color with the fourth largest surface area. In cases where the areas of the quaternary and other colors are too similar to reliably decide which color has the largest area, the darker color is considered to be the quaternary color.

8.2 Explanations for individual characteristics

Ad. 1: Plant: growing type



1
fastigiata

2
bush shaped

3
rounded

4
spreaded

Ad. 2: Plant: habit



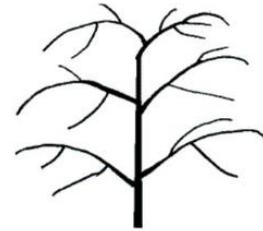
1
upright



2
semi-upright



3
horizontal



4
spreading

Ad. 8: Stem: spines shape

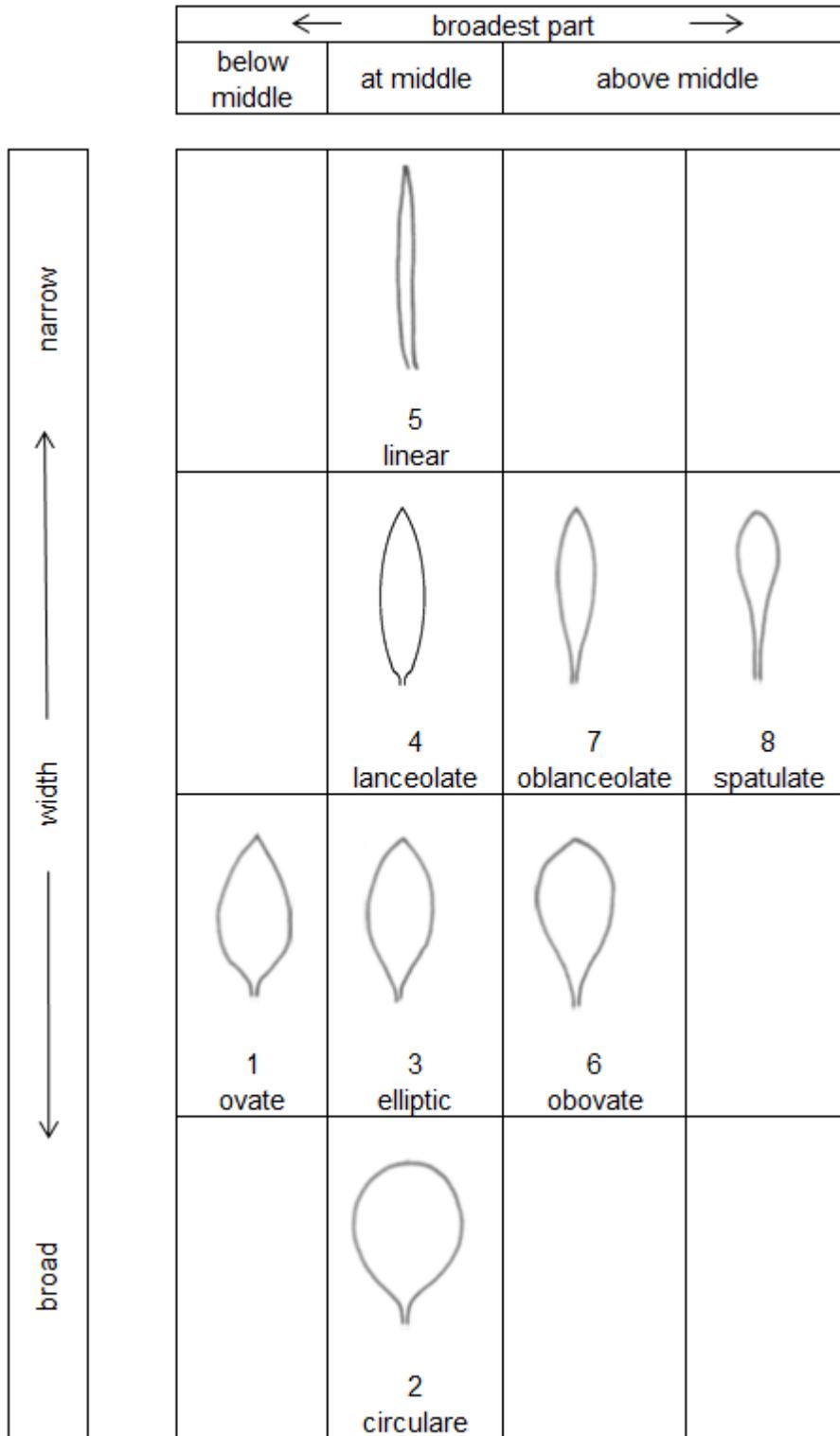


2
simple



3
trifid

Ad. 13: Leaf: shape



Ad. 14: Leaf: spine



1
absent

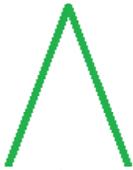


2
only on apex



3
on apex and on margin

Ad. 15: Leaf: shape of apex



1
acute



2
obtuse

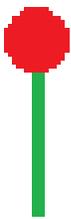


3
rounded

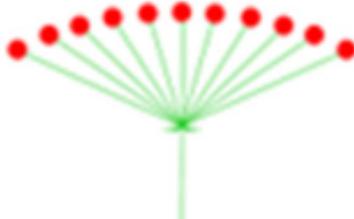
Ad. 16: Leaf blade: main color

The main color is the color with the largest surface area. In cases where the areas of the main and other colors are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color.

Ad. 27: Inflorescence: type



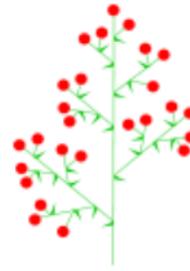
1
single flower



2
umbel

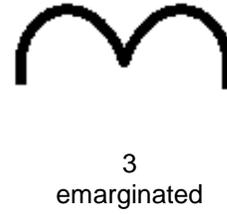
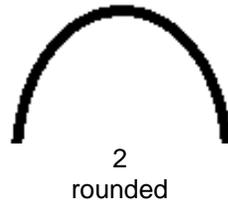
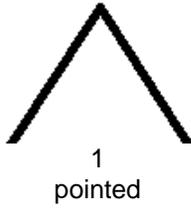


3
raceme



4
panicle

Ad. 30: Petal: shape of apex



Ad. 33: Fruit: shape



Ad. 35: Fruit: color

Observations should be made after removed wax on fruit.

9. Literature

10. Technical Questionnaire

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

	Application date: (not to be filled in by the applicant)
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TECHNICAL QUESTIONNAIRE
to be completed in connection with an application for plant breeders' rights

1. Subject of the Technical Questionnaire

1.1 Botanical name

Berberis L.

1.2 Common name

Barberry, Berberis

2. Applicant

Name

Address

Telephone No.

Fax No.

E-mail address

Breeder (if different from applicant)

3. Proposed denomination and breeder's reference

Proposed denomination
(if available)

Breeder's reference

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

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross []
(please state parent varieties)

(.....) 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)

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

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4.2 Method of propagating the variety

4.2.1 Other []
(Please provide details)

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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: growing type (1)		
fastigiated	Helmon Pillar, Red Torch	1 []
bush shaped	Bokratin	2 []
rounded	Lutin Rouge	3 []
spreaded	Green Ornament	4 []
5.2 Plant : height (3)		
short	Berval 1	3 []
medium	Berval 6	5 []
tall	Fire Flame	7 []
5.3 Plant: height in relation to width (4)		
taller than broad	Helmon Pillar	1 []
as tall as broad	Berval 8	2 []
broader than tall	Berval 2	3 []
5.4 Plant: global color (5)		
yellow	Berval 2	1 []
green	Bokratin	2 []
red	Lutin Rouge	3 []
purple	Helmon Pillar	4 []
5.5 Stem: spines shape (8)		
absent		1 []
simple	Red Torch	2 []
trifid	Bokratin	3 []
5.6 Foliage: persistence (10)		
desiduous	Helmon Pillar	1 []
semi-evergreen	Parkjuwell	2 []
evergreen	Tottenham	3 []
5.7 Leaf blade: main color (16)		
RHS Colour Chart (indicate reference number)		

Characteristics	Example Varieties	Note
5.8 Leaf: ondulation on margin (25)		
absent or very weak	Berval 3	1 []
weak	Parkjuwell	3 []
medium	Dart's Improvement	5 []
strong	Terra Nova	7 []
very strong	Thunderbolt	9 []
5.9 Inflorescence: type (27)		
single flower	Grawley Gem	1 []
umbel	Red Rocket	2 []
raceme	Red Tears	3 []
panicule	Barborossa	4 []
5.10 Petal: color of inner side (29)		
RHS Colour Chart (indicate reference number)		
5.11 Fruit (32)		
absent		1 []
present		9 []
5.12 Fruit: shape (33)		
cylindric	Bokratin	1 []
subglobose	Berval 6	2 []
globose	Grawley Gem	3 []
5.13 Fruit: color (35)		
RHS Colour Chart (indicate 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>			
Comments:			

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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		

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8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to (b) is yes, please attach a copy of the authorization.

9. Information on plant material to be examined or submitted for examination

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | | |
|-----|---|---------|--------|
| (a) | Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) | Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) | Tissue culture | Yes [] | No [] |
| (d) | Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date

[End of document]