



TG/194/2(proj.2)  
 ORIGINAL: English  
 DATE: 2022-04-29

## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

LAVANDULA/LAVENDER

UPOV Code(s): LAVAN

*Lavandula L.*

### GUIDELINES

#### FOR THE CONDUCT OF TESTS

#### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from the European Union  
 to be considered by the  
 Technical Working Party for Ornamental Plants and Forest Trees  
 at its fifty-fourth session, to be held virtually,  
 from 2022-06-13 to 2022-06-17*

*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>Lavandula L.</i>	Lavandula, Lavender	Lavande, Lavandin	Lavendel	Lavanda, Lavándula

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](http://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 *Lavandula* 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 young plants.

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

- 10 in case of vegetatively propagated varieties
- 20 in case of seed propagated varieties

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 In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 10 plants.

3.4.2 In the case of seed-propagated varieties, each test should be designed to result in a total of at least 20 plants.

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

In the case of vegetatively propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 9 plants or parts taken from each of 9 plants and any other observation made on all plants in the test, disregarding any off-type plants.

In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 15 plants or parts taken from each of 15 plants and any other observation 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 and self-pollinated seed propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.
- 4.2.3 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 10 plants, 1 off-type is allowed.
- 4.2.4 For the assessment of uniformity of self-pollinated seed-propagated varieties, a population standard of 1 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 20 plants, 1 off-type(s) is/are allowed.

#### 4.3 *Stability*

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed 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: type (characteristic 1)
  - (b) Plant: growth habit (characteristic 2)
  - (c) Plant: size (characteristic 3)
  - (d) Leaf: variegation (characteristic 7)
  - (e) Leaf: depth of incisions of margin (characteristic 11)
  - (f) Infertile bracts: main color (characteristic 38) with the following groups:
    - Gr. 1: white
    - Gr. 2: green
    - Gr. 3: pink
    - Gr. 4: light purple
    - Gr. 5: dark purple
    - Gr. 6: violet
  - (g) Corolla: main color (characteristic 42) with the following groups:
    - Gr. 1: white
    - Gr. 2: pink
    - Gr. 3: purple
    - Gr. 4: violet
    - Gr. 5: blue

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.

For certain characteristics, different example varieties are indicated, depending on the Plant type.

(1) : example varieties for Plant type: without infertile bracts

(2) : example varieties for Plant type: with infertile bracts

## 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)-(d) 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
<b>1. (*)</b>	<b>QL</b>	<b>VG</b>	<b>(+)</b>				
	<b>Plant: type</b>						
	without infertile bracts						1
	with infertile bracts						9
<b>2. (*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>				
	<b>Plant: growth habit</b>						
	upright						1
	semi-upright						2
	semi-upright to spreading						3
	spreading						4
<b>3. (*)</b>	<b>QN</b>	<b>MG/MS/VG</b>					
	<b>Plant: size</b>						
	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
<b>4. (*)</b>	<b>QN</b>	<b>VG</b>					
	<b>Plant: density</b>						
	very sparse						1
	very sparse to sparse						2
	sparse						3
	sparse to medium						4
	medium						5
	medium to dense						6
	dense						7
	dense to very dense						8
	very dense						9



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>5.</b>	<b>QN</b>	<b>VG</b>				
	<b>Leaf: intensity of green color</b>					
	very light					1
	light					2
	medium					3
	dark					4
	very dark					5
<b>6.</b>	<b>QN</b>	<b>VG</b>				
	<b>Leaf: intensity of grey tinge</b>					
	very weak					1
	weak					2
	medium					3
	strong					4
	very strong					5
<b>7. (*)</b>	<b>QL</b>	<b>VG</b>	<b>(a), (b)</b>			
	<b>Leaf: variegation</b>					
	absent					1
	present					9
<b>8. (*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(a), (b)</b>			
	<b>Leaf: length</b>					
	very short					1
	very short to short					2
	short					3
	short to medium					4
	medium					5
	medium to long					6
	long					7
	long to very long					8
	very long					9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>9. (*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(a), (b)</b>			
	<b>Leaf: width</b>					
	very narrow				Bouquet of Roses (2), Klelv12072 (1)	1
	very narrow to narrow					2
	narrow				Fair 16 (2), Royal purple (2)	3
	narrow to medium					4
	medium				Dow4 (1), Montparler (1)	5
	medium to broad					6
	broad					7
	broad to very broad					8
	very broad					9
<b>10</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(b)</b>			
	<b>Leaf : length/width ratio</b>					
	very low					1
	low					2
	medium					3
	high					4
	very high					5
<b>11 (*)</b>	<b>QN</b>	<b>VG</b>	<b>(a), (b)</b>			
	<b>Leaf: depth of incisions of margin</b>					
	absent or shallow				Abrial (1)	1
	medium				Pure Harmony (2)	2
	deep				Sidonie (2)	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>12</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(a), (c)</b>				
	<b>Flowering stem: length</b>							
	very short						Clair de Lune (2), Lady (1)	1
	very short to short							2
	short						Munstead (1), Sugar Plum (2)	3
	short to medium							4
	medium						Abrial (1), Helmsdale (2)	5
	medium to long							6
	long						James Compton (2), Reydovan (1)	7
	long to very long							8
	very long						Capsicclair (1)	9
<b>13</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Flowering stem: thickness</b>							
	very thin						James Compton (2), Lady (1)	1
	thin						Maillette (1), Sugar Plum (2)	2
	medium						Grosso (1), Marshwood (2)	3
	thick						Reydovan (1)	4
	very thick							5
<b>14 (*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Flowering stem: intensity of green color</b>							
	very light							1
	light							2
	medium							3
	dark							4
	very dark							5

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>15</b>	<b>QN</b>	<b>VG</b>	<b>(a)</b>				
	<b>Only varieties with Plant type: without infertile bracts: Flowering stem: rigidity of basal part</b>						
	very weak						1
	weak					Capsclair (1)	2
	medium					Grosso (1)	3
	strong					Reydovan (1)	4
	very strong						5
<b>16</b>	<b>QN</b>	<b>VG</b>	<b>(a)</b>				
	<b>Only varieties with Plant type: with infertile bracts: Flowering stem: density of pubescence</b>						
	very sparse						1
	very sparse to sparse						2
	sparse					Major (2)	3
	sparse to medium						4
	medium					Sugar Plum (2)	5
	medium to dense						6
	dense					Marshwood (2)	7
	dense to very dense						8
	very dense						9
<b>17 (*)</b>	<b>QL</b>	<b>VG</b>					
	<b>Flowering stem: lateral branching above foliage</b>						
	absent					Blue River (1), Clozone (1), Lady (1)	1
	present					Grosso (1)	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>18</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(a)</b>			
	<b>Only varieties with: Flowering stem: lateral branching above foliage: present: Flowering stem: number of lateral branches</b>					
	very few					1
	very few to few					2
	few				Reydovan (1), Willowbridge White (2)	3
	few to medium					4
	medium				Clair de Lune (2), Grosso (1)	5
	medium to many					6
	many				Azur (1), Bogone (1)	7
	many to very many					8
	very many					9
<b>19 (*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(c)</b>			
	<b>Only varieties with Flowering stem: lateral branching above foliage: present: Flowering stem: length of the longest lateral branch above foliage</b>					
	very short					1
	short					2
	medium					3
	long					4
	very long					5
<b>20</b>	<b>QL</b>	<b>VG</b>	<b>(+)</b>			
	<b>Cyme: type</b>					
	single-flowered					1
	multi-flowered					2
<b>21</b>	<b>QN</b>	<b>MG/MS/VG</b>				
	<b>Flower: length of pedicel</b>					
	short					1
	medium					2
	long					3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>22</b>	<b>(*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(a)</b>			
		<b>Spike: length from first whorl</b>						
		very short					James Compton (2), Lady (1)	1
		very short to short						2
		short					Major (2), Munstead (1)	3
		short to medium						4
		medium					Grosso (1), Pippa White (2)	5
		medium to long						6
		long					Azur (1)	7
		long to very long						8
		very long						9
<b>23</b>	<b>(*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(a)</b>			
		<b>Spike: width</b>						
		very narrow					Grey Hedge (1), Pippa White (2)	1
		very narrow to narrow						2
		narrow					Hidcote Pink (1), Major (2)	3
		narrow to medium						4
		medium					Grosso (1), Marshwood (2)	5
		medium to broad						6
		broad					Pelleret 18 (1)	7
		broad to very broad						8
		very broad					Hidcote Giant (1), Reydovan (1)	9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>24</b>	<b>(*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(a)</b>			
		<b>Only varieties with Plant type: without infertile bracts: Spike: length from second whorl</b>						
			very short				Lady (1)	1
			very short to short					2
			short				Capsicclair (1)	3
			short to medium					4
			medium				Grosso (1)	5
			medium to long					6
			long				B 110 (1)	7
			long to very long					8
			very long					9
<b>25</b>	<b>(*)</b>	<b>QN</b>	<b>MG/MS</b>	<b>(+)</b>	<b>(a)</b>			
		<b>Only varieties with Plant type: without infertile bracts: Spike: number of whorls</b>						
			very few					1
			very few to few					2
			few				Reydovan (1)	3
			few to medium					4
			medium				Capsicclair (1)	5
			medium to many					6
			many				Jaubert (1)	7
			many to very many					8
			very many					9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>26</b>	<b>(*) QN</b>	<b>MG/MS</b>	<b>(a)</b>			
	<b>Only varieties with Plant type: without infertile bracts: Spike: ratio length from first whorl / number of whorls</b>					
	very low				Lady (1)	1
	very low to low					2
	low				Grosso (1)	3
	low to medium					4
	medium				Abrial (1)	5
	medium to high					6
	high				Super (1)	7
	high to very high					8
	very high					9
<b>27</b>	<b>(*) PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>		
	<b>Spike: shape</b>					
	narrow conical				Grey Hedge (1)	1
	medium conical				Abrial (1), Silver Ghost (2)	2
	truncate conical				Reydovan (1), Tickled Pink (2)	3
	cylindrical				Ghostly Princess (2), Willowbridge White (2)	4
	fusiform				Lady (1), Sidonie (2)	5
	narrow trullate				Yuulong (1)	6
	conical and cylindrical					7
<b>28</b>	<b>QN</b>	<b>MG/VG</b>	<b>(a)</b>			
	<b>Spike: number of flowers</b>					
	very few					1
	few					2
	medium					3
	many					4
	very many					5



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>29</b>	<b>QN</b>	<b>MG/VG</b>	<b>(a)</b>			
	<b>Only varieties with Plant type: without infertile bracts: Spike: number of flowers on apical whorl</b>					
	very few					1
	few					2
	medium					3
	many					4
	very many					5
<b>30</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(a)</b>		
	<b>Spike: width of fertile bracts</b>					
	very narrow					1
	very narrow to narrow					2
	narrow				Grey Hedge (1), Sidonie (2)	3
	narrow to medium					4
	medium				Impress Purple (1), Roxlea Park (2)	5
	medium to broad					6
	broad				Munstead (1), Willowbridge White (2)	7
	broad to very broad					8
	very broad					9
<b>31 (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(a)</b>			
	<b>Only varieties with Plant type: with infertile bracts: Spike: main color of fertile bracts</b>					
	white				Silver Ghost (2)	1
	green				Pippa White (2)	2
	violet				Blue Canaries (2)	3
	red purple				Roxlea Park (2)	4
	brown				Sidonie (2)	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>32</b>	<b>QL</b> <b>VG</b>	<b>(a)</b>				
	<b>Only varieties with Plant type: without infertile bracts: Spike: presence of bracteole</b>					
	sometimes present				Munstead (1)	1
	always present				Impress Purple (1)	2
<b>33</b>	<b>QN</b> <b>VG</b>	<b>(a)</b>				
	<b>Only varieties with Plant type: without infertile bracts: Spike: length of bracteole</b>					
	short					1
	medium					2
	long					3
<b>34</b>	<b>QN</b> <b>MG/MS/VG</b>	<b>(a)</b>				
	<b>Infertile bracts: number</b>					
	few					1
	few to medium					2
	medium					3
	medium to many					4
	many					5
<b>35</b> (*)	<b>QN</b> <b>MG/MS/VG</b>	<b>(+)</b> <b>(a)</b>				
	<b>Infertile bracts: length</b>					
	very short					1
	short					2
	medium					3
	long					4
	very long					5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>36</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(a)</b>		
	<b>Infertile bracts: width</b>					
	very narrow					1
	narrow					2
	medium					3
	broad					4
	very broad					5
<b>37</b>	<b>(*) PQ</b>	<b>VG</b>	<b>(a)</b>			
	<b>Infertile bracts: shape</b>					
	linear				James Compton (2)	1
	elliptic				Pippa White (2)	2
	oblong				Pukehou (2)	3
	oblanceolate				Tickled Pink (2)	4
	obovate				Plum (2)	5
	spatulate				Otto Quast (2)	6
	rhombic					7
<b>38</b>	<b>(*) PQ</b>	<b>VG</b>	<b>(a)</b>			
	<b>Infertile bracts: main color</b>					
	RHS Colour Chart (indicate reference number)					
<b>39</b>	<b>QN</b>	<b>VG</b>	<b>(a)</b>			
	<b>Infertile bracts: undulation of margin</b>					
	very weak					1
	weak					2
	medium					3
	strong					4
	very strong					5

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>40</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(a)</b>			
		<b>Flower: color of calyx</b>					
			greyish			Jaubert (1)	1
			greenish			Azur (1), Pippa White (2)	2
			purplish			Regal Splendour (2)	3
			violet			Grosso (1)	4
<b>41</b>		<b>QN</b>	<b>VG</b>	<b>(a)</b>			
		<b>Flower: density of pubescence of calyx</b>					
			very sparse				1
			sparse				2
			medium				3
			dense				4
			very dense				5
<b>42</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>		
		<b>Corolla: main color</b>					
			RHS Colour chart (indicate reference number)				
<b>43</b>		<b>PQ</b>	<b>VG</b>	<b>(d)</b>			
		<b>Corolla: secondary color</b>					
			RHS Colour Chart (indicate reference number)				
<b>44</b>		<b>QN</b>	<b>MG/VG</b>	<b>(+)</b>			
		<b>Time of beginning of flowering</b>					
			very early				1
			very early to early				2
			early			Azur (1), James Compton (2)	3
			early to medium				4
			medium			Pippa White (2), Sumian (1)	5
			medium to late				6
			late			Abrial (1)	7
			late to very late				8
			very late				9

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

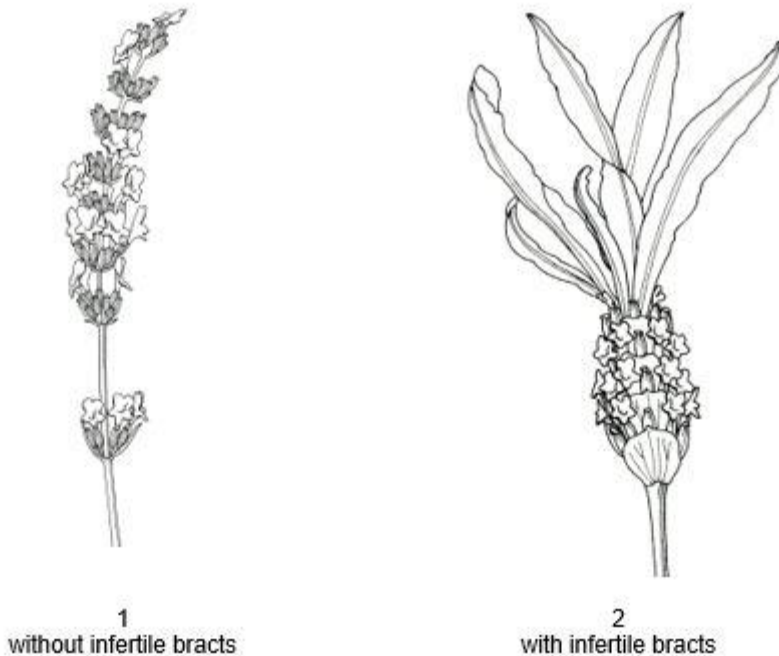
Unless otherwise indicated all observations should be made at the time of full flowering. The full flowering is when 80% of the spikes are flowering.

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

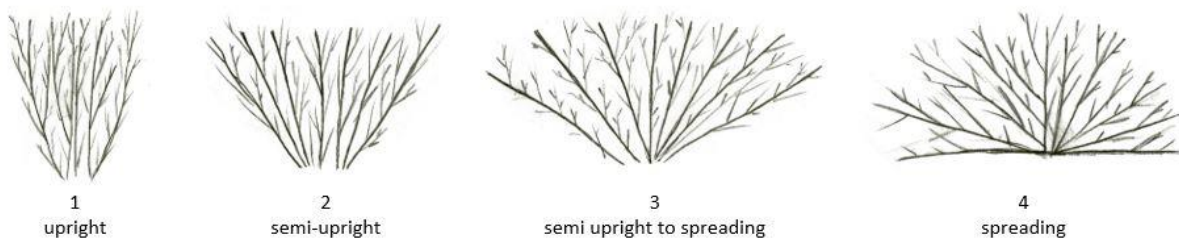
- (a) Observations should be made on the main flowering stem.
- (b) Observations should be made on fully developed leaves from the middle third of the stem.
- (c) Length including spike
- (d) The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color.

8.2 *Explanations for individual characteristics*

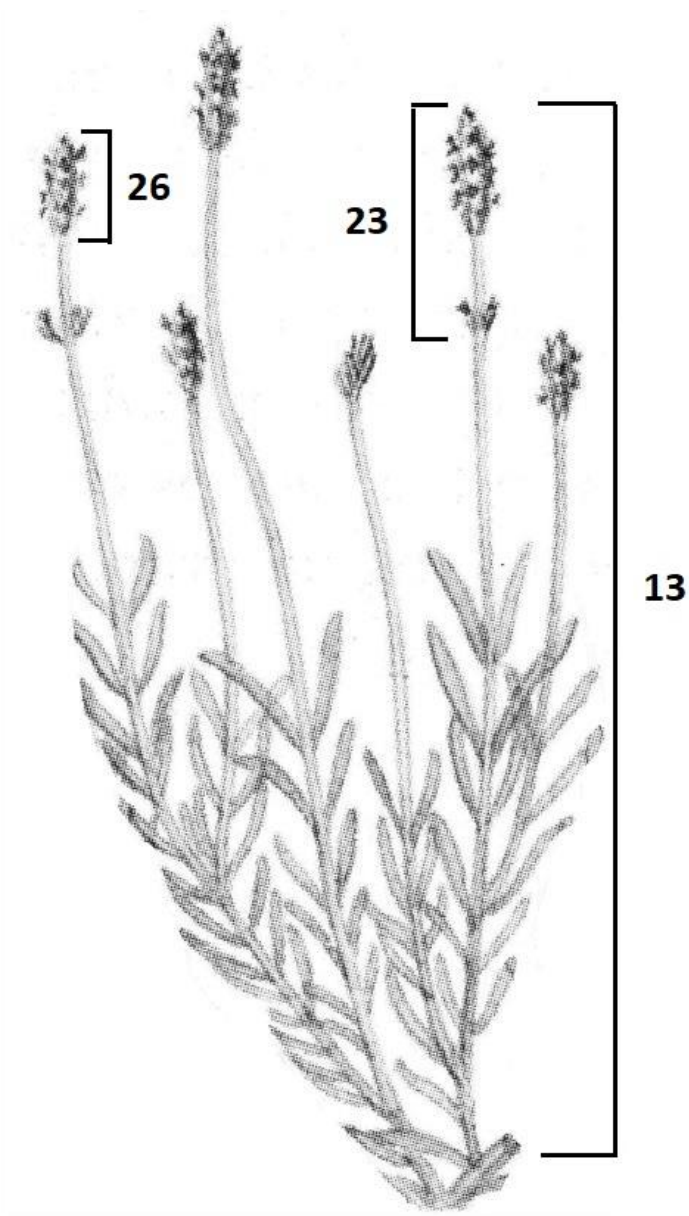
Ad. 1: Plant: type



Ad. 2: Plant: growth habit



Ad. 12: Flowering stem: length



Ad. 13: Flowering stem: thickness

Observation should be made at middle third of the stem, not including the spike

Ad. 14: Flowering stem: intensity of green color

Observations should be made on the upper third of the stem.

Ad. 20: Cyme: type

1 single-flowered	2 multi-flowered

Ad. 22: Spike: length from first whorl

See Ad.13

Ad. 23: Spike: width

add a drawing

Ad. 24: Only varieties with Plant type: without infertile bracts: Spike: length from second whorl

See Ad.13

Ad. 25: Only varieties with Plant type: without infertile bracts: Spike: number of whorls

excluding first whorl.

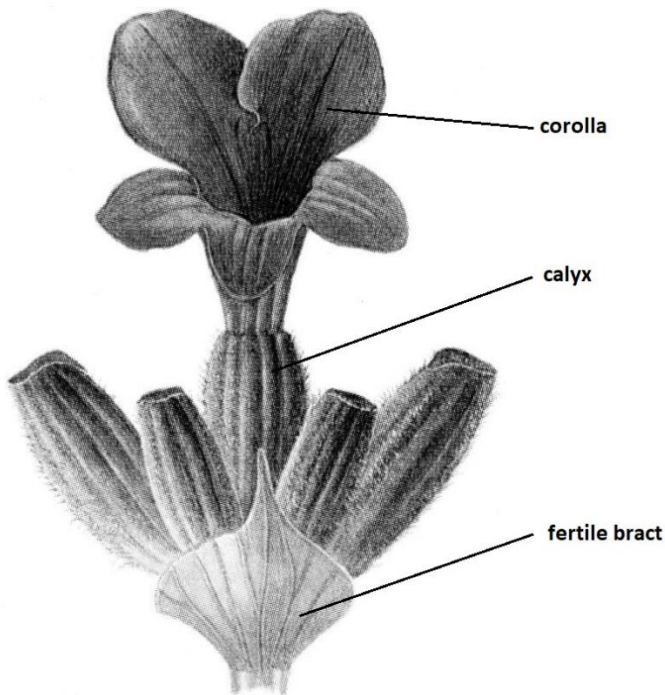
Ad. 27: Spike: shape

add a drawing

+

Stage 7: Both conical and cylindrical shapes are observed on each plant, in the same proportion.

Ad. 30: Spike: width of fertile bracts



Ad. 35: Infertile bracts: length

add a drawing

Ad. 36: Infertile bracts: width

add a drawing

Ad. 42: Corolla: main color

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 darkest color is considered to be the main color.

Ad. 44: Time of beginning of flowering

Beginning of flowering to be defined



9. Literature

- Armitage, A.M., 1989: "Herbaceous Perennial Plants". Varsity Press, Inc., Athens, Georgia.
- De Wolf, Gordon P., 1955: "Notes on Cultivated Labiates". 5. *Lavandula B...* 3: 47-57.
- McLeod J.A., 1989: "Lavander, Sweet Lavender". Kangaroo Press, reprinted in 1991.
- McNaughton, V.J., 1994: "The Essential Lavender", Penguin Books.
- McNaughton, V. J., 2000: "Lavender: The Grower's Guide" Bloomings Books, Melbourne.
- Tucker, Arthur O., 1981: "The Correct Name of Lavandin and its Cultivars (Labiatae)", *Baileya* 21: 131 – 133.
- Tucker, Arthur O. and Hensen, Karel, J.W., 1985: "The Cultivars of Lavender and Lavandin (Labiatae)", *Baileya* 22: 168 – 177.
- Upton, Tim and Andrews, Susyn, 2004, "The Genus *Lavandula*", Royal Botanic Garden, Kew."

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1	Botanical name	<input type="text" value="Lavandula L."/>
1.2	Common name	<input type="text" value="Lavandula, Lavender"/>
2. Applicant		
	Name	<input type="text"/>
	Address	<input type="text"/>
	Telephone No.	<input type="text"/>
	Fax No.	<input type="text"/>
	E-mail address	<input type="text"/>
	Breeder (if different from applicant)	<input type="text"/>
3. Proposed denomination and breeder's reference		
	Proposed denomination (if available)	<input type="text"/>
	Breeder's reference	<input type="text"/>

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross [ ]

(b) partially known cross [ ]

(c) unknown cross [ ]

4.1.2 Mutation [ ]  
(please state parent variety)

[ ]

4.1.3 Discovery and development [ ]  
(please state where and when discovered and how developed)

[ ]

4.1.4 Seedling (indicate parent varieties) [ ]

[ ]

4.1.5 Other [ ]  
(Please provide details)

[ ]

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

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2	Method of propagating the variety	
4.2.1	Seed-propagated varieties	
(a)	Self-pollination	[ ]
(b)	Other (please provide details)	[ ]
	<input type="text"/>	
4.2.2	Vegetative propagation	
(a)	Cuttings	[ ]
(b)	Other (state method)	[ ]
	<input type="text"/>	
4.2.3	Other (Please provide details)	[ ]
	<input type="text"/>	

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
<b>5.1 Plant: type</b> <b>(1)</b>		
without infertile bracts		1 [ ]
with infertile bracts		9 [ ]
<b>5.2 Plant: growth habit</b> <b>(2)</b>		
upright		1 [ ]
semi-upright		2 [ ]
semi-upright to spreading		3 [ ]
spreading		4 [ ]
<b>5.3 Plant: size</b> <b>(3)</b>		
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 [ ]
<b>5.4 Leaf: variegation</b> <b>(7)</b>		
absent		1 [ ]
present		9 [ ]
<b>5.5 Leaf: depth of incisions of margin</b> <b>(11)</b>		
absent or shallow	Abrial (1)	1 [ ]
medium	Pure Harmony (2)	2 [ ]
deep	Sidonie (2)	3 [ ]

Characteristics	Example Varieties	Note
<b>5.6(i) Infertile bracts: main color</b> <b>(38)</b> RHS Colour Chart (indicate reference number)		
<b>5.6(ii) Infertile bracts: main color</b> <b>(38)</b> pink violet green white dark purple light purple		[ ] [ ] [ ] [ ] [ ] [ ]
<b>5.7(i) Corolla: main color</b> <b>(42)</b> RHS Colour chart (indicate reference number)		
<b>5.7(ii) Corolla: main color</b> <b>(42)</b> purple white violet pink blue		[ ] [ ] [ ] [ ] [ ]

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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Plant: size</i>	<i>very small</i>	<i>medium</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.]

- Is the variety intended to be grown

- in greenhouse
- outdoor

- Main use: (precise)

- garden plant
- pot plant
- dried flowers
- essential oil
- others (specify)

.....

- Resistance to pests and diseases .....

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



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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8. Authorization for release

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

Yes [ ] No [ ]

(b) Has such authorization been obtained?

Yes [ ] No [ ]

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

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

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

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

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

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

.....

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

Applicant's name

Signature  Date

[End of document]