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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-third session, to be held in Roelofarendsveen, Netherlands,
from 2021-06-07 to 2021-06-11

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	*English*	*French*	*German*	*Spanish*
Lavandula L.	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), for the latest information.]

TABLE OF CONTENTS PAGE

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Lavandula* L. of the family Labiatae (Lamiaceae).

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 two independent growing cycles.

3.1.2 The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles.

3.1.3 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 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 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) Variety type (characteristic 1)
(b) Plant: growth habit (characteristic 2)
(c) Plant: size (characteristic 3)
(d) Leaf: variegation (characteristic 8)
(e) Leaf: incisions of margin (characteristic 12)
(f) Only varieties with Variety type: with infertile bracts: Infertile bracts: main color (characteristic 37)
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 variety type.
(1) : example varieties for Variety type: without infertile bracts
(2) : example varieties for Variety type: with infertile bracts

EXAMPLE VAR + MENTION OF (L), (P), (S/Ps) WILL BE UPDATED FOR DRAFT 2

6.5 Legend

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note
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)-(c) 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/
1.	**(*)**	**QL** **VG**					
		Variety type					
		without infertile bracts					1
		with infertile bracts					9
2.	**(*)**	**QN** **VG**	**(+)** **(a)**				
		Plant: growth habit					
		upright				Folgate (L), James Compton (S/Ps)	1
		bushy				Pippa White (S/Ps), Twickel Purple (L)	2
		globular				Major (S/Ps), Munstead (L)	3
		spreading					4
3.	**(*)**	**QN** **MG/VG**	**(a)**				
		Plant: size					
		very small				Nana Alba (L)	1
		very small to small					2
		small				Evelyn Cadzow (S/Ps), Maillette (L)	3
		small to medium					4
		medium				Major (S/Ps)	5
		medium to large					6
		large				Capsiclair (L), Willowbridge Snow (S/Ps)	7
		large to very large					8
		very large				Marshwood (S/Ps), Super (L)	9
4.	**(*)**	**QN** **VG**	**(a)**				
		Plant: attitude of outer flowering stems					
		erect				James Compton (S/Ps), Reydovan (L)	1
		semi-erect				Grosso (L), Marshwood (S/Ps)	2
		spreading				Pippa White (S/Ps), Twickel Purple (L)	3

		English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
5.	**(*)**	**QN**	**VG**		**(a)**				
		Plant: density							
		very sparse							1
		very sparse to sparse							2
		sparse						Pippa White (S/Ps), Twickel Purple (L)	3
		sparse to medium							4
		medium						Abrial (L), Greenwings (S/Ps)	5
		medium to dense							6
		dense						Helmsdale (S/Ps), Reydovan (L)	7
		dense to very dense							8
		very dense							9
6.		**QN**	**VG**		**(a)**				
		Foliage: intensity of green color							
		very light							1
		very light to light							2
		light						Pippa White (S/Ps), Super (L)	3
		light to medium							4
		medium						Sugar Plum (S/Ps), Twickel Purple (L)	5
		medium to dark							6
		dark						Grosso (L), Helmsdale (S/Ps)	7
		dark to very dark							8
		very dark							9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
7.		**QN VG**	**(a)**				
		Foliage: intensity of grey tinge					
		absent or very weak				Grosso (L), Sugar Plum (S/Ps)	1
		very weak to weak					2
		weak				James Compton (S/Ps)	3
		medium				Avonview (S/Ps), Tickled Pink (S/Ps)	5
		medium to strong					6
		strong				Hazel (S/Ps)	7
		strong to very strong					8
		very strong				Ghostly Princess (2), Pukehou (S/Ps), Reydovan (L)	9
8.	**(*)**	**QL VG**					
		Leaf: variegation					
		absent					1
		present					9
9.	**(*)**	**QN MS/VG**	**(b)**				
		Leaf: length					
		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/
10	**(*)**	**QN MS/VG**	**(b)**				
		Leaf: width					
		very narrow				Bouquet of Roses (S/Ps), Klelv12072 (S/Ps)	1
		very narrow to narrow					2
		narrow				Fair 16 (S/Ps), Royal purple (S/Ps)	3
		narrow to medium					4
		medium				Dow4 (L), Montparler (L)	5
		medium to broad					6
		broad					7
		broad to very broad					8
		very broad					9
11		**QN MG/VG**					
		Leaf : length/width ratio					
		very slightly elongated					1
		slightly elongated					2
		moderately elongated					3
		strongly elongated					4
		very strongly elongated					5
12	**(*)**	**PQ VG**	**(b)**				
		Leaf: incisions of margin					
		absent				Abrial (L)	1
		weakly expressed				Pure Harmony (S/Ps)	2
		strongly expressed				Sidonie (S/Ps)	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
13	**QN MS/VG**	**(+)**	**(a), (b), (c)**			
	Flowering stem: length					
	very short				Clair de Lune (S/Ps), Lady (L)	1
	very short to short					2
	short				Munstead (L), Sugar Plum (S/Ps)	3
	short to medium					4
	medium				Abrial (L), Helmsdale (S/Ps)	5
	medium to long					6
	long				James Compton (S/Ps), Reydovan (L)	7
	long to very long					8
	very long				Capsiclair (L)	9
14	**QN MS/VG**	**(+)**	**(a), (b)**			
	Flowering stem: thickness at middle third					
	very thin				James Compton (S/Ps), Lady (L)	1
	very thin to thin					2
	thin				Maillette (L), Sugar Plum (S/Ps)	3
	thin to medium					4
	medium				Grosso (L), Marshwood (S/Ps)	5
	medium to thick					6
	thick				Reydovan (L)	7
	thick to very thick					8
	very thick					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
15	**(*)**	**QN** **VG**	**(a), (b)**				
		Flowering stem: intensity of green color					
		very light				Azur (L), Capsiclair (L)	1
		very light to light					2
		light				Pippa White (S/Ps), Super (L)	3
		light to medium					4
		medium				Grosso (L), Tickled Pink (S/Ps)	5
		medium to dark					6
		dark				Ghostly Princess (2)	7
		dark to very dark					8
		very dark					9
16		**QN** **VG**	**(a), (b)**				
		<u>Only varieties with Variety type: without infertile bracts:</u> Flowering stem: rigidity of basal part					
		very weak					1
		very weak to weak					2
		weak				Capsiclair (L)	3
		weak to medium					4
		medium				Grosso (L)	5
		medium to strong					6
		strong				Reydovan (L)	7
		strong to very strong					8
		very strong					9

		English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
17		**QN**	**VG**		**(a), (b)**				
		Only varieties with variety type: with infertile bracts: Flowering stem: density of pubescence							
		very sparse							1
		very sparse to sparse							2
		sparse						Major (S/Ps)	3
		sparse to medium							4
		medium						Sugar Plum (S/Ps)	5
		medium to dense							6
		dense						Marshwood (S/Ps)	7
		dense to very dense							8
		very dense							9
18	**(*)**	**QL**	**VG**		**(a)**				
		Flowering stem: lateral branching above foliage							
		absent						Blue River (L), Clozone (L), Lady (L)	1
		present						Grosso (L)	9
19		**QN**	**MG/VG**		**(a), (b)**				
		Only varieties with: Flowering stem: lateral branching: present: Flowering stem: number of lateral branches							
		very few							1
		very few to few							2
		few						Reydovan (L), Willowbridge White (S/Ps)	3
		few to medium							4
		medium						Clair de Lune (S/Ps), Grosso (L)	5
		medium to many							6
		many						Azur (L), Bogone (L)	7
		many to very many							8
		very many							9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
20	**(*)**	**QN MS/VG**	**(a), (c)**				
		Flowering stem: length of the longest lateral branch above foliage					
		very short				Maillette (L)	1
		very short to short					2
		short				Avice Hill (S/Ps), Reydovan (L)	3
		short to medium					4
		medium				Capsiclair (L)	5
		medium to long					6
		long				Grosso (L)	7
		long to very long					8
		very long					9
21	**(*)**	**QN MS/VG**	**(+) (a), (b)**				
		Spike: length from first whorl					
		very short				James Compton (S/Ps), Lady (L)	1
		very short to short					2
		short				Major (S/Ps), Munstead (L)	3
		short to medium					4
		medium				Grosso (L), Pippa White (S/Ps)	5
		medium to long					6
		long				Azur (L)	7
		long to very long					8
		very long					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
22	**(*)**	**QN** **MS/VG**	**(+)** **(a), (b)**				
		Spike: width					
		very narrow				Grey Hedge (L), Pippa White (S/Ps)	1
		very narrow to narrow					2
		narrow				Hidcote Pink (L), Major (S/Ps)	3
		narrow to medium					4
		medium				Grosso (L), Marshwood (S/Ps)	5
		medium to broad					6
		broad				Pelleret 18 (L)	7
		broad to very broad					8
		very broad				Hidcote Giant (L), Reydovan (L)	9
23	**(*)**	**QN** **MS/VG**	**(+)** **(a), (b)**				
		Only varieties with Variety type: without infertile bracts: Spike: length from second whorl					
		very short				Lady (L)	1
		very short to short					2
		short				Capsiclair (L)	3
		short to medium					4
		medium				Grosso (L)	5
		medium to long					6
		long				B 110 (L)	7
		long to very long					8
		very long					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
24	**(*)**	**QN** **MG/MS**	**(+)** **(a), (b)**				
		<u>Only varieties with Variety type: without infertile bracts:</u> Spike: number of whorls					
		very few					1
		very few to few					2
		few				Reydovan (L)	3
		few to medium					4
		medium				Capsiclair (L)	5
		medium to many					6
		many				Jaubert (L)	7
		many to very many					8
		very many					9
25	**(*)**	**QN** **MG/MS**	**(+)** **(a), (b)**				
		<u>Only varieties with Variety type:without infertile bracts:</u> Spike: distance between whorls					
		very short				Lady (L)	1
		very short to short					2
		short				Grosso (L)	3
		short to medium					4
		medium				Abrial (L)	5
		medium to long					6
		long				Super (L)	7
		long to very long					8
		very long					9
26	**(*)**	**PQ** **VG**	**(+)** **(a), (b)**				
		Spike: shape					
		narrow conical				Grey Hedge (L)	1
		conical				Abrial (L), Silver Ghost (S/Ps)	2
		truncate conical				Reydovan (L), Tickled Pink (S/Ps)	3
		cylindrical				Ghostly Princess (2), Willowbridge White (S/Ps)	4
		fusiform				Lady (L), Sidonie (S/Ps)	5
		narrow trullate				Yuulong (L)	6
		conical and cylindrical					7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
27	**QN** **VG**	**(a), (b)**				
	Spike: number of flowers					
	very few					1
	very few to few					2
	few				Capsiclair (L)	3
	few to medium					4
	medium				Abrial (L), James Compton (S/Ps)	5
	medium to many					6
	many				Suad 32 (L), Willowbridge White (S/Ps)	7
	many to very many					8
	very many					9
28	**QN** **VG**	**(a), (b)**				
	<u>Only varieties with Variety type: without infertile bracts:</u> Spike: number of flowers on apical whorl					
	very few					1
	very few to few					2
	few				Abrial (L)	3
	few to medium					4
	medium				Reydovan (L)	5
	medium to many					6
	many				Ghostly Princess (2)	7
	many to very many					8
	very many					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
29		**QN** **MS/VG**	**(a), (b)**				
		Spike: width of fertile bracts					
		very narrow					1
		very narrow to narrow					2
		narrow				Grey Hedge (L), Sidonie (S/Ps)	3
		narrow to medium					4
		medium				Impress Purple (L), Roxlea Park (S/Ps)	5
		medium to broad					6
		broad				Munstead (L), Willowbridge White (S/Ps)	7
		broad to very broad					8
		very broad					9
30	**(*)**	**PQ** **VG**	**(a), (b)**				
		<u>Only varieties with Variety type: with infertile bracts:</u> Spike: main color of fertile bracts					
		white				Silver Ghost (S/Ps)	1
		green				Pippa White (S/Ps)	2
		violet				Blue Canaries (S/Ps)	3
		red purple				Roxlea Park (S/Ps)	4
		brown				Sidonie (S/Ps)	5
31		**QL** **VG**	**(a), (b)**				
		<u>Only varieties with Variety type: without infertile bracts:</u> Spike: presence of bracteole					
		sometimes present				Munstead (L)	1
		always present				Impress Purple (L)	2

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
32		**QN** **VG**	**(a), (b)**				
		Only varieties with Variety type: without infertile bracts: Spike: length of bracteole					
		very short					1
		very short to short					2
		short				Pacific Blue (L)	3
		short to medium					4
		medium				Munstead (L)	5
		medium to long					6
		long				Super (L)	7
		long to vey long					8
		very long					9
33		**QN** **MS/VG**	**(a), (b)**				
		Only varieties with Variety type: with infertile bracts: Infertile bracts: number					
		few				Prolil (S/Ps), Toscane (S/Ps)	1
		few to medium					2
		medium				Anouk (S/Ps)	3
		medium to many					4
		many				Flovendula Purple (S/Ps), Lavsts 08 (S/Ps)	5
34	**(*)**	**QN** **MS/VG**	**(+)** **(a), (b)**				
		Only varieties with Variety type: with infertile bracts: Infertile bracts: length					
		very short					1
		very short to short					2
		short				Evelyn Cadzow (S/Ps)	3
		short to medium					4
		medium				Tickled Pink (S/Ps)	5
		medium to long					6
		long				James Compton (S/Ps)	7
		long to very long					8
		very long					9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
35		**QN** **MS**	**(+)** **(a), (b)**				
		Only varieties with Variety type: with infertile bracts: Infertile bracts: width					
		very narrow				Atlantica (S/Ps), James Compton (S/Ps)	1
		very narrow to narrow					2
		narrow				Anouk (S/Ps), Fair 09 (S/Ps)	3
		narrow to medium					4
		medium				Boysberry Ruffles (S/Ps), Happiness Sky (L)	5
		medium to broad					6
		broad					7
		broad to very broad					8
		very broad					9
36	**(*)**	**PQ** **VG**	**(a), (b)**				
		Only varieties with Variety type: with infertile bracts: Infertile bracts: shape					
		linear				James Compton (S/Ps)	1
		elliptic				Pippa White (S/Ps)	2
		oblong				Pukehou (S/Ps)	3
		oblanceolate				Tickled Pink (S/Ps)	4
		obovate				Plum (S/Ps)	5
		spatulate				Otto Quast (S/Ps)	6
		rhomboidal					7
37	**(*)**	**PQ** **VG**	**(a), (b)**				
		Only varieties with Variety type: with infertile bracts: Infertile bracts: main color					
		RHS Colour Chart (indicate reference number)					

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
38		**QN VG**	**(a), (b)**				
		Infertile bracts: undulation of margin					
		very weak					1
		very weak to weak					2
		weak				Greenwings (S/Ps)	3
		weak to medium					4
		medium				Helmsdale (S/Ps)	5
		medium to strong					6
		strong				Merle (S/Ps)	7
		strong to very strong					8
		very strong					9
39	**(*)**	**PQ VG**	**(a), (b)**				
		Flower: color of calyx					
		greenish				Azur (L), Pippa White (S/Ps)	1
		purplish				Regal Splendour (S/Ps)	2
		violet				Grosso (L)	3
		greyish				Jaubert (L)	4
40		**QN VG**	**(a), (b)**				
		Flower: density of pubescence of calyx					
		very sparse					1
		very sparse to sparse					2
		sparse				Capsiclair (L), Sidonie (S/Ps)	3
		sparse to medium					4
		medium				Avice Hill (S/Ps), Willowbridge White (S/Ps)	5
		medium to dense					6
		dense				Reydovan (L), Roxlea Park (S/Ps)	7
		dense to very dense					8
		very dense					9
41		**QL VG**					
		Corolla: number of colors					
		one					1
		more than two				Yuzuki	2

		English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/
42	**(*)**	**PQ**	**VG**	**(+)**	**(a)**				
		Corolla: main color							
		RHS Colour chart (indicate reference number)							
43		**PQ**	**VG**						
		Corolla: secondary color							
		RHS Colour Chart (indicate reference number)							
44		**QN**	**MG/VG**	**(+)**					
		Time of beginning of flowering							
		very early							1
		very early to early							2
		early						Azur (L), James Compton (S/Ps)	3
		early to medium							4
		medium						Pippa White (S/Ps), Sumian (L)	5
		medium to late							6
		late						Abrial (L)	7
		late to very late							8
		very late							9

8. Explanations on the Table of Characteristics

8.1 Explanations covering several characteristics

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

(a) Observations should be made at the time of full flowering

(b) Observations should be made on the main flowering stem.

(c) Length including spike

8.2 Explanations for individual characteristics

Ad. 2: Plant: growth habit

add drawings, see TGP 14

Ad. 13: Flowering stem: length

drawing to be provided

Ad. 14: Flowering stem: thickness at middle third

not including the spike

Ad. 21: Spike: length from first whorl

add a drawing

Ad. 22: Spike: width

add a drawing

Ad. 23: Only varieties with Variety type: without infertile bracts: Spike: length from second whorl

add drawing

Ad. 24: Only varieties with Variety type: without infertile bracts: Spike: number of whorls

excluding first whorl.

Ad. 25: Only varieties with Variety type:without infertile bracts: Spike: distance between whorls

The distance between whorls is assessed by determining the ratio length of spike/numbers of whorls.

Ad. 26: Spike: shape

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

Ad. 34: Only varieties with Variety type: with infertile bracts: Infertile bracts: length

add a drawing

Ad. 35: Only varieties with Variety type: with infertile bracts: 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.

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	*Lavandula* L.
1.2	Common name	Lavandula, Lavender
1.3	Please precise the species name:	

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	

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

#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:

4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

(a) Self-pollination [ ]
(b) Other (please provide details) [ ]

4.2.2 Vegetative propagation

(a) Cuttings [ ]
(b) Other (state method) [ ]

4.2.3 Other [ ]
(Please provide details)

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

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

	Characteristics	Example Varieties	Note
5.1 (2)	**Plant: growth habit**		
	upright	Folgate (L), James Compton (S/Ps)	1 [ ]
	bushy	Pippa White (S/Ps), Twickel Purple (L)	2 [ ]
	globular	Major (S/Ps), Munstead (L)	3 [ ]
	spreading		4 [ ]
5.2 (3)	**Plant: size**		
	very small	Nana Alba (L)	1 [ ]
	very small to small		2 [ ]
	small	Evelyn Cadzow (S/Ps), Maillette (L)	3 [ ]
	small to medium		4 [ ]
	medium	Major (S/Ps)	5 [ ]
	medium to large		6 [ ]
	large	Capsiclair (L), Willowbridge Snow (S/Ps)	7 [ ]
	large to very large		8 [ ]
	very large	Marshwood (S/Ps), Super (L)	9 [ ]
5.3 (8)	**Leaf: variegation**		
	absent		1 [ ]
	present		9 [ ]
5.4 (12)	**Leaf: incisions of margin**		
	absent	Abrial (L)	1 [ ]
	weakly expressed	Pure Harmony (S/Ps)	2 [ ]
	strongly expressed	Sidonie (S/Ps)	3 [ ]
5.5 (37)	**Only varieties with Variety type: with infertile bracts: Infertile bracts: main color**		
	RHS Colour Chart (indicate reference number)		
5.6 (42)	**Corolla: main color**		
	RHS Colour chart (indicate reference number)		

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

6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of 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
Example	*Plant: size*	*very small*	*medium*

Comments:

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

[#]7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [ ] No [ ]

(If 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:

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]