



TG/SOLEN_SCU(proj.1)

ORIGINAL: English

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

Coleus

UPOV Code: SOLEN_SCU

Solenostemon scutellarioides (L.) Codd

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by (an) expert(s) from Japan

to be considered by the

*Technical Working Party for Ornamental Plants and Forest Trees
at its forty-eighth session
to be held in Cambridge, United Kingdom,
from 2015-09-14
to 2015-09-18*

Alternative Names:^{*}

Botanical name	English	French	German	Spanish
Solenostemon scutellarioides (L.) Codd, Coleus blumei Benth.	Coleus, Painted-nettle			El-nene

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 *Solenostemon scutellarioides* (L.) Codd.

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 seeds or rooted cuttings.

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

seed propagated varieties: sufficient seeds to produce 30 plants

vegetatively propagated varieties: 10 rooted cuttings

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

3.1.1 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 30 plants for seed propagated varieties or 10 plants for vegetatively propagated varieties.

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 / Parts of Plants to be Examined

4.1.4.1 In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.4.2 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 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 The assessment of uniformity for seed-propagated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.

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 15 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) Leaf blade: main color of upper side (characteristic 10)

- Gr. 1: white
- Gr. 2: yellow green
- Gr. 3: green
- Gr. 4: light yellow
- Gr. 5: yellow
- Gr. 6: orange
- Gr. 7: pink
- Gr. 8: red
- Gr. 9: purple red
- Gr. 10: purple
- Gr. 11: brown

(b) Leaf blade: secondary color of upper side (characteristic 11)

- Gr. 1: white
- Gr. 2: yellow green
- Gr. 3: green
- Gr. 4: light yellow
- Gr. 5: yellow

- Gr. 6: orange
- Gr. 7: pink
- Gr. 8: red
- Gr. 9: purple red
- Gr. 10: purple
- Gr. 11: brown

(c) Leaf blade: distribution of secondary color of upper side (characteristic 12)

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:

State	Note
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:

State	Note
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*

(*)	Asterisked characteristic	– see Chapter 6.1.2
QL	Qualitative characteristic	– see Chapter 6.3
QN	Quantitative characteristic	– see Chapter 6.3
PQ	Pseudo-qualitative characteristic	– see Chapter 6.3
MG, MS, VG, VS		– see Chapter 4.1.5

(a)-(h) See Explanations on the Table of Characteristics in Chapter 8.

(+) See Explanations on the Table of Characteristics in Chapter 8.

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
1. (*) QN MG MS VG (a)					
Plant: height	Plante: hauteur	Pflanze: Höhe	Planta: altura		
short	basse	niedrig	baja		3
medium	moyenne	mittel	media		5
tall	haute	hoch	alta	Grecom Orange Marmalade	7
<hr/>					
2. (*) QN MG MS VG (a)					
Plant: width	Plante : largeur	Pflanze: Breite	Planta: anchura		
narrow	étroite	schmal	estrecha		3
medium	moyenne	mittel	media		5
broad	large	breit	ancha	Grecom Orange Marmalade	7
<hr/>					
3. (*) QN VG					
Stem: anthocyanin coloration	Tige: pigmentation anthocyanique	Stängel: Anthocyanfärbung	Tallo: pigmentación antociánica		
weak	faible	gering	débil		3
medium	moyenne	mittel	media		5
strong	forte	stark	fuerte		7
<hr/>					
4. QN MG MS VG (b) (c)					
Petiole: length	Pétiole: longueur	Blattstiel: Länge	Peciole: longitud		
short	court	kurz	corta	BALAUBLACH	3
medium	moyen	mittel	media		5
long	long	lang	larga		7
<hr/>					
5. (*) QN MG MS VG (b) (c)					
Leaf blade: length	Limbe : longueur	Blattspreite: Länge	Limbo: longitud		
short	court	kurz	corto		3
medium	moyen	mittel	mediano		5
long	long	lang	largo	Grecom Orange Marmalade	7
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
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6. (*) QN MG MS

VG (b) (c)

Leaf blade: width	Limbe : largeur	Blattspreite: Breite	Limbo: anchura		
narrow	étroit	schmal	estrecho	BALAUBLACH	3
medium	moyen	mittel	mediano		5
broad	large	breit	ancho		7

7. QN MG MS VG

(b)

Leaf blade: ratio length/width	Limbe: rapport longueur/largeur	Blattspreite: Ver-hältnis Länge/Breite	Limbo: relación entre la longitud y la anchura		
low					3
medium	moyen	mittel	media		5
high					7

8. (*) QN VG (+)

(b)

Leaf blade: depth of incisions of margin	Limbe : profondeur des découpures du bord	Blattspreite: Tiefe der Randeinschnitte	Limbo: profundidad de las incisiones del borde		
shallow	peu profondes	flach	poco profundas		3
medium	moyennes	mittel	medias		5
deep	profondes	tief	profundas		7

9. QN VG (b)

Leaf blade: undulation of margin	Limbe : ondulation du bord	Blattspreite: Randwellung	Limbo: ondulación del borde		
absent or very weak	absente ou très faible	fehlend oder sehr schwach	ausente o muy débil		1
weak	faible	schwach	débil		2
medium	moyenne	mittel	media		3
strong	forte	stark	fuerte		4

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
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10. (*) PQ VG (d)
Leaf blade: main color of upper side
 RHS Colour Chart
 (indicate reference number)

11. (*) PQ VG (d)
Leaf blade: secondary color of upper side
 RHS Colour Chart
 (indicate reference number)

12. (*) PQ VG (d) (e) Leaf blade: distribution of secondary color of upper side				
along veins	le long des nervures	entlang der Adern	a lo largo de los nervios	1
marginal zone				2
central zone				3
basal zone				4
between midrib and margin				5
throughout				6

13. (*) PQ VG (d) (f) Leaf blade: pattern of secondary color of upper side	
flushed	1
blotched	2
irregular	3
solid or nearly solid	4

14. (*) PQ VG (d)
Leaf blade: tertiary color of upper side
 RHS Colour Chart
 (indicate reference number)

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
15. (*) PQ VG (d) (e) Leaf blade: distribution of tertiary color of upper side					
along veins					1
marginal zone					2
central zone					3
basal zone					4
between midrib and margin					5
throughout					6
<hr/>					
16. (*) PQ VG (d) (f) Leaf blade: pattern of tertiary color of upper side					
flushed					1
blotched					2
irregular					3
solid or nearly solid					4
<hr/>					
17. (*) PQ VG (d) Leaf blade: quaternary color of upper side RHS Colour Chart (indicate reference number)					
<hr/>					
18. PQ VG (d) (e) Leaf blade: distribution of quaternary color of upper side					
along veins					1
marginal zone					2
central zone					3
basal zone					4
between midrib and margin					5
throughout					6
<hr/>					

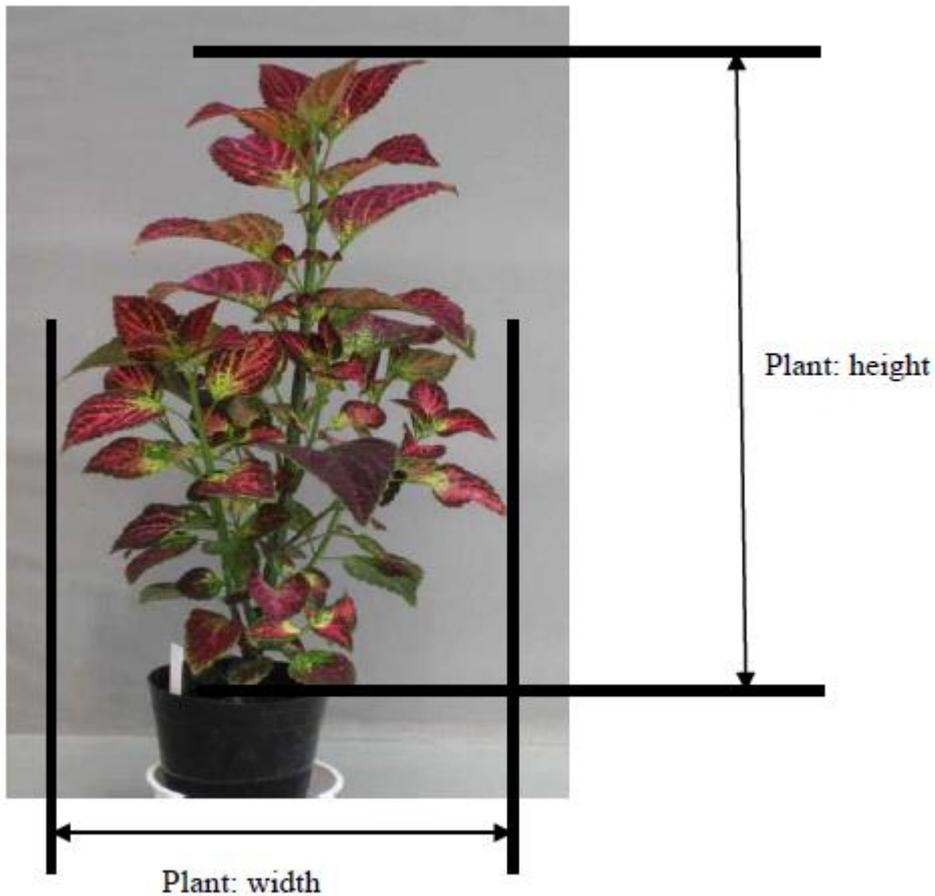
English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
<hr/>					
19. PQ VG (d) (f)					
Leaf blade: pattern of quaternary color of upper side					
flushed					1
blotched					2
irregular					3
solid or nearly solid					4
<hr/>					
20. (*) PQ VG (d)					
Leaf blade: main color of lower side					
RHS Colour Chart (indicate reference number)					
<hr/>					
21. (*) PQ VG (d)					
Leaf blade: secondary color of lower side					
RHS Colour Chart (indicate reference number)					
<hr/>					
22. (*) PQ VG (d) (g)					
Leaf blade: distribution of secondary color of lower side					
along veins					1
marginal zone					2
central zone					3
basal zone					4
between midrib and margin					5
throughout					6
<hr/>					
23. (*) PQ VG (d) (h)					
Leaf blade: pattern of secondary color of lower side					
flushed					1
blotched					2
irregular					3
solid or nearly solid					4
<hr/>					

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

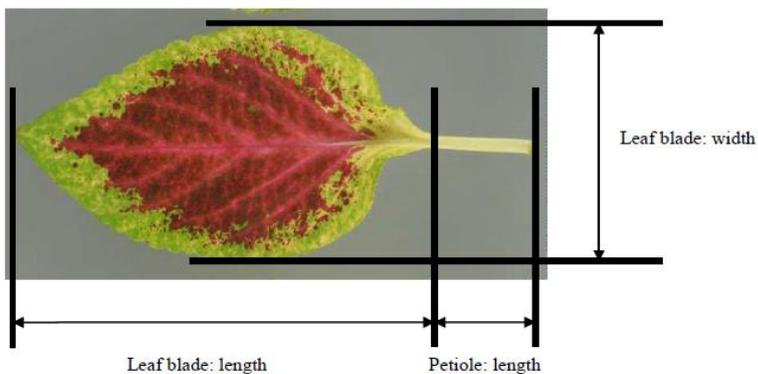
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

(a) Figure of Plant: height and Plant: width is indicated as follows.



(b) Observations on the leaf should be made on the fully expanded leaves from the middle third of the stem.

(c) Figure of "Petiole: length" and "Leaf blade: length" and "Leaf blade: width" is indicated as follows.



(d) The main color is the color with the largest surface area, the secondary color is the color with the second largest surface area, the tertiary color is the color with the third largest surface area, the quaternary color is the color with the fourth largest surface area.

In cases where the area of the main and secondary colors are too similar to reliably decide which color has the largest area, the lower numbered color on the RHS chart is considered to be the main color.

In cases where the area of the secondary and tertiary colors are too similar to reliably decide which color has the largest area, the lower numbered color on the RHS chart is considered to be the secondary color.

In cases where the area of the tertiary and quaternary colors are too similar to reliably decide which color has the largest area, the lower numbered color on the RHS chart is considered to be the tertiary color.

In cases where the area of the main, secondary, tertiary colors are too similar to reliably decide order of color, the lowest numbered color on the RHS chart is considered to be the main color, the second lowest numbered color on the RHS chart is considered to be the secondary color, the third lowest numbered color on the RHS chart is considered to be the tertiary color.

In cases where the area of the main, secondary, tertiary, quaternary colors are too similar to reliably decide order of color, the lowest numbered color on the RHS chart is considered to be the main color, the second lowest numbered color on the RHS chart is considered to be the secondary color, the third lowest numbered color on the RHS chart is considered to be the tertiary color, the fourth lowest numbered color on the RHS chart is considered to be the quaternary color.

For example, if Red Purple 71A of central zone and Green 137A of marginal zone is almost equal size in leaves, Red Purple 71A record as the main color, Green 137A record as the secondary color. If two colors are on the same leaf of the chart, for example Green 137A and Green 137D, 137A is regarded as the lower numbered color.

(e) Figure of "Leaf blade: distribution of secondary color of upper side" and "Leaf blade: distribution of tertiary color of upper side" and "Leaf blade: distribution of quaternary color of upper side" is indicated as follows.



1
along veins
(light purple)



2
marginal zone
(light purple)



3
central zone
(red)



4
basal zone
(yellow green)

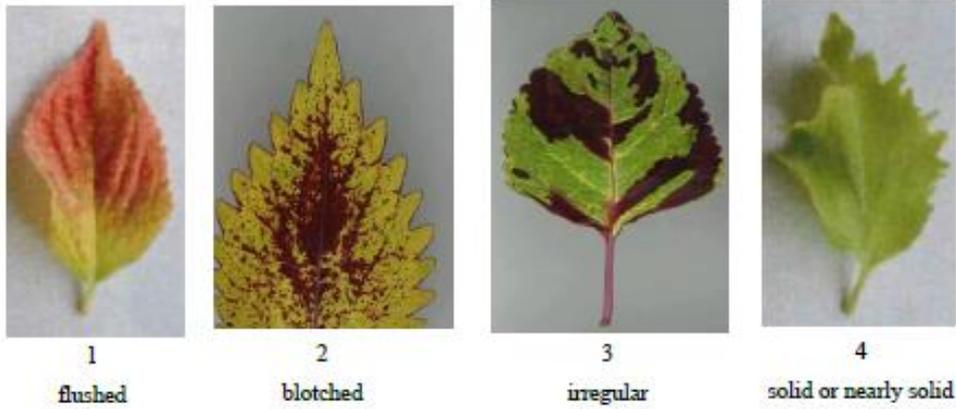


5
between midrib
and margin
(white)

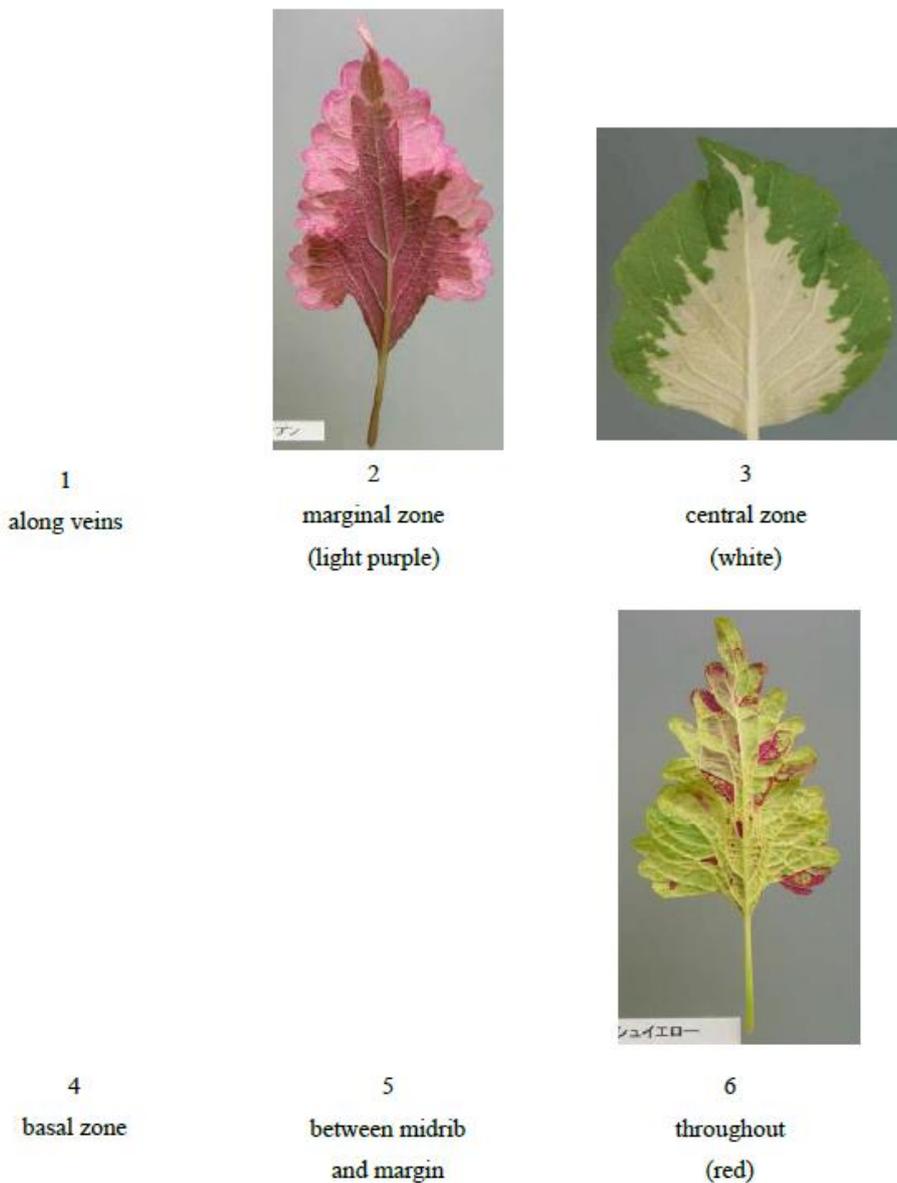


6
throughout
(red)

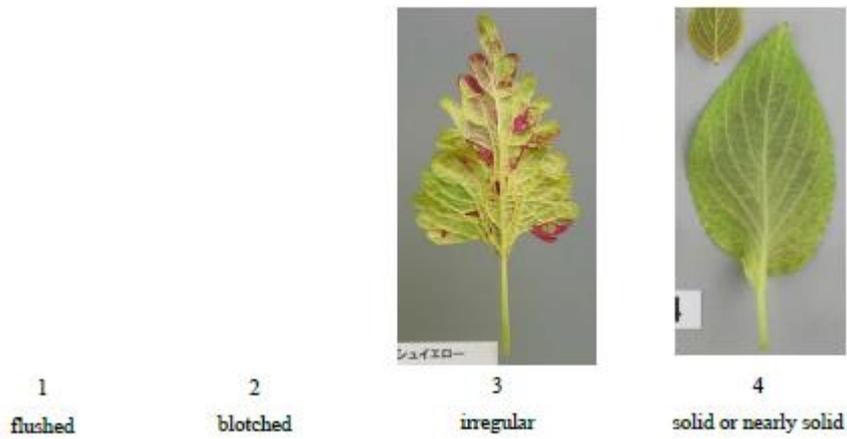
(f) Figure of 'Leaf blade: pattern of secondary color of upper side' 'Leaf blade: pattern of tertiary color of upper side' 'Leaf blade: pattern of quaternary color of upper side' is indicated as follows.



(g) Figure of "Leaf blade: distribution of secondary color of lower side" is indicated as follows.

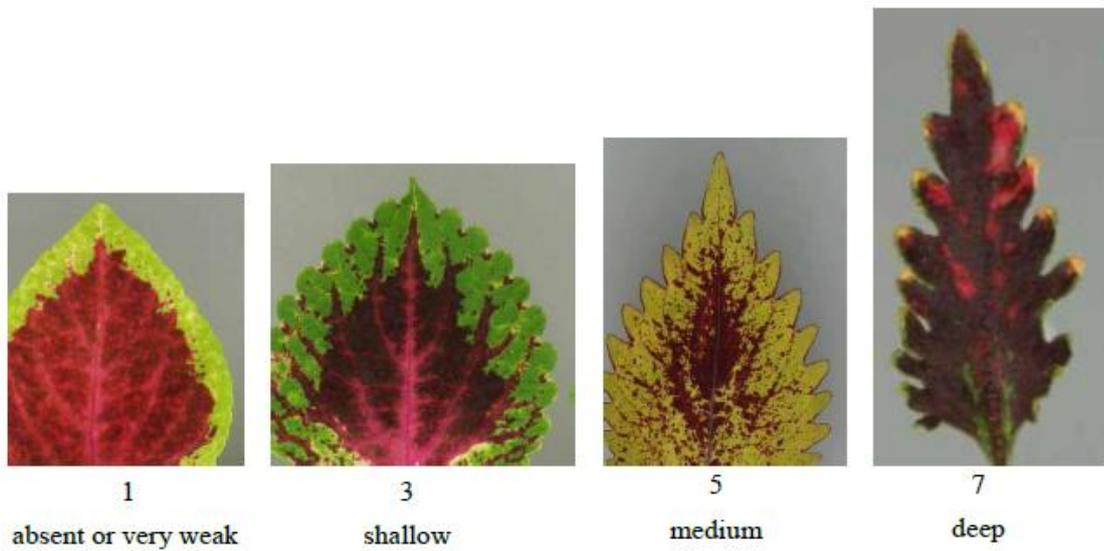


(h) Figure of "Leaf blade: pattern of secondary color of lower side" is indicated as follows.



8.2 Explanations for individual characteristics

Ad. 8: Leaf blade: depth of incisions of margin



9. Literature

Tsukamoto, Y., 1994: The Grand Dictionary of Horticulture. Volume 1. The Shogakukan Ltd., Tokyo, JP, pp. 908-910

Hartlage, R., 2008: Coleus Rainbow Foliage for Containers and Gardens. Timber Press, Portland, Oregon, USA.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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	Application date: (not to be filled in by the applicant)
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TECHNICAL QUESTIONNAIRE
 to be completed in connection with an application for plant breeders' rights

1. Subject of the Technical Questionnaire			
1.1.1	Botanical Name	Solenostemon scutellarioides (L.) Codd (syn. Coleus blumei)	
1.1.2	Common Name	Coleus, Painted-nettle	

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"/>

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)

[.....]

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings []
- (b) []
- (c) Other (state method) []

.....
:
:
.....

4.2.2 Other []

(please provide details)

.....
:
:
.....

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

Characteristics	Example Varieties	Note
5.1 (1) Plant: height		
short		3[]
medium		5[]
tall	Grecom Orange Marmalade	7[]
5.2 (8) Leaf blade: depth of incisions of margin		
shallow		3[]
medium		5[]
deep		7[]
5.3 (10) Leaf blade: main color of upper side		
RHS Colour Chart (indicate reference number)		1[]
5.4 (11) Leaf blade: secondary color of upper side		
RHS Colour Chart (indicate reference number)		
5.5 (12) Leaf blade: distribution of secondary color of upper side		
along veins		1[]
marginal zone		2[]
central zone		3[]
basal zone		4[]
between midrib and margin		5[]
throughout		6[]

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:

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

7.4 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.]

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.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:												
<p>9. Information on plant material to be examined or submitted for examination</p> <p>9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.</p> <p>9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:</p> <table data-bbox="239 560 1356 761"><tr><td>(a) Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes []</td><td>No []</td></tr><tr><td>(b) Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes []</td><td>No []</td></tr><tr><td>(c) Tissue culture</td><td>Yes []</td><td>No []</td></tr><tr><td>(d) Other factors</td><td>Yes []</td><td>No []</td></tr></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p>			(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []	(b) Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []	(c) Tissue culture	Yes []	No []	(d) Other factors	Yes []	No []
(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []												
(b) Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []												
(c) Tissue culture	Yes []	No []												
(d) Other factors	Yes []	No []												
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <table data-bbox="223 1052 1404 1254"><tr><td data-bbox="223 1052 494 1131">Applicant's name</td><td colspan="2" data-bbox="494 1052 1404 1131"><input type="text"/></td></tr><tr><td data-bbox="223 1131 494 1254">Signature</td><td data-bbox="494 1131 981 1254"><input type="text"/></td><td data-bbox="981 1131 1404 1254">Date <input type="text"/></td></tr></table>			Applicant's name	<input type="text"/>		Signature	<input type="text"/>	Date <input type="text"/>						
Applicant's name	<input type="text"/>													
Signature	<input type="text"/>	Date <input type="text"/>												

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