



European Union
Community Plant Variety Office

PROTOCOL FOR DISTINCTNESS, UNIFORMITY AND STABILITY TESTS

Euphorbia pulcherrima Willd. ex Klotzsch and its hybrids

POINSETTIA

UPOV Species Code: EUPHO_PUL

Adopted on 16/10/2008

Entered into force on 07/03/2008

I - SUBJECT OF THE PROTOCOL

The protocol describes the technical procedures to be followed in order to meet the requirement of Council Regulation (EC) No. 2100/94 on Community Plant Variety Rights. The technical procedures have been agreed by the Administrative Council and are based on general UPOV Document TG/1/3 and UPOV Guideline TG/24/6 dated 9th April 2008 for the conduct of tests for Distinctness, Uniformity and Stability. This protocol applies to all varieties of *Euphorbia Pulcherrima* Willd. ex Klotzsch and its hybrids.

II - SUBMISSION OF PLANT MATERIAL

1. The Community Plant Variety Office (CPVO) is responsible for informing the applicant of

- the closing date for the receipt of plant material;
- the minimum amount and quality of plant material required;
- the Examination Office to which material is to be sent.

The applicant is responsible for ensuring compliance with any customs and plant health requirements.

2. Final dates for receipt of documentation and material by the Examination Office

The final dates for receipt of requests, technical questionnaires and the final date or submission period for plant material will be decided by the CPVO and each Examination Office chosen.

The Examination Office is responsible for immediately acknowledging the receipt of requests for testing, and technical questionnaires. If no or unsatisfactory plant material is submitted the CPVO should be informed as soon as possible.

3. Plant material requirements

Information with respect to closing dates and submission requirements of plant material for the technical examination of varieties can be found on the CPVO website (www.cpvo.europa.eu) and in the special Issue S2 of the Official Gazette of the Office published yearly in the month of September.

Quality:..... The plant material supplied should be visibly healthy, not lacking in vigour or affected by any important pest or disease, especially viruses, as laid down in Council Directive 2000/29/EC and its amendments, or organisms impairing quality as indicated in Council Directive 98/56/EEC and Commission Directive 93/49/EEC and their amendments.

The plant material must not have undergone any treatment unless the CPVO and the Examination Office allow or request such treatment. If it has been treated, full details of the treatment must be given.

Labelling of sample:..... - Species
- File number of the application allocated by the CPVO
- Breeder's reference
- Examination reference (if known)
- Name of applicant
- The phrase "On request of the CPVO"

III - CONDUCT OF TESTS

1. Variety collection

A variety collection will be maintained for the purpose of establishing distinctness of the candidate varieties in test. A variety collection may contain both living material and descriptive information. A variety will be included in a variety collection only if plant material is available to make a technical examination.

Pursuant to Article 7 of Council Regulation (EC) No. 2100/94, the basis for a collection should be the following:

- varieties listed or protected at the EU level or at least in one of the EEA Member States;
- varieties protected in other UPOV Member States;
- any other variety in common knowledge.

It is the responsibility of Examination Office to keep the variety collection up to date.

2. Material to be examined

Candidate varieties will be directly compared with other candidates for Community plant variety rights tested at the same Examination Office, and with appropriate varieties in the variety collection. When necessary an Examination Office may also include other candidates and varieties.

3. Characteristics to be used

The characteristics to be used in DUS tests and preparation of descriptions shall be those referred to in Annex 1. All the characteristics shall be used, providing that observation of a characteristic is not rendered impossible by the expression of any other characteristic, or the expression of a characteristic is prevented by the environmental conditions under which the test is conducted. In the latter case, the CPVO should be informed. In addition the existence of some other regulation e.g. plant health, may make the observation of the characteristic impossible.

The Administrative Council empowers the President, in accordance with Article 23 of Commission Regulation (EC) No. 1239/95, to insert additional characteristics and their expressions in respect of a variety.

4. Grouping of varieties

The varieties and candidates to be compared will be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety and which in their various states of expression are fairly evenly distributed throughout the collection. In the case of continuous grouping characteristics overlapping states of expression between adjacent groups is required to reduce the risks of incorrect allocation of candidates to groups. The characters used for grouping are the following:

- (a) Leaf blade: number of colours on upper side (characteristic 12)
- (b) Bract: number of colours of upper side (characteristic 33)
- (c) Only varieties with one colored bracts: Bract: colour of upper side (characteristic 34) with the following groups:
 - Group 1: white
 - Group 2: yellow
 - Group 3: pink
 - Group 4: orange red
 - Group 5: red
 - Group 6: purple
- (d) Only varieties with more than one colored bracts: Bract: marbling of upper side (characteristic 35)

(e) Only varieties with marbled bracts: Bract: main colour of upper side (characteristic 36) with the following groups:

- Group 1: white
- Group 2: pink
- Group 3: red
- Group 4: purple

(f) Bract: colour of spots of upper side (characteristic 40) with the following groups:

- Group 1: white
- Group 2: yellow
- Group 3: pink
- Group 4: orange red
- Group 5: red
- Group 6: purple

5. Trial designs and growing conditions

The minimum duration of tests will normally be one growing cycle if the results on distinctness and uniformity are conclusive. Tests will be carried out under conditions ensuring normal growth. The size of the plots will be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made up to the end of the growing period.

The test design is as follows:

As a minimum, each test should include a total of 10 plants. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

For vegetatively propagated varieties, all observations on single plants determined by measurement or counting, should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.

The test should normally be conducted at one place.

The test should be carried out in the greenhouse under conditions ensuring normal growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. Five weeks after propagation the plants should receive a short day treatment for 10 weeks. The day length during the short day treatment should be 10 hours.

Plants should not be pinched.

The optimum stage of development for the assessment of the characteristics is the time of opening of three cyathia on the plants.

6. Special tests

In accordance with Article 83(3) of Council Regulation (EC) No. 2100/94 an applicant may claim either in the Technical Questionnaire or during the examination that a candidate variety has a characteristic which would be helpful in establishing distinctness. If such a claim is made and is supported by reliable technical data, a special test may be undertaken providing that a technically acceptable test procedure can be devised.

Special tests will be undertaken, with the agreement of the President of CPVO, where distinctness is unlikely to be shown using the characters listed in the protocol.

7. Standards for decisions

a) **Distinctness**

A candidate variety will be considered to be distinct if it meets the requirements of Article 7 of Council Regulation (EC) No. 2100/94.

b) **Uniformity**

For the assessment of uniformity a population standard of 1% with an acceptance probability of at least 95% should be applied.

For a sample size between 6 and 35 plants for vegetatively propagated varieties, only 1 off-type is allowed.

c) **Stability**

A candidate will be considered to be sufficiently stable when there is no evidence to indicate that it lacks uniformity.

IV - REPORTING OF RESULTS

After each growing cycle the results will be summarized and reported to the CPVO in the form of a UPOV model interim report in which any problems will be indicated under the headings distinctness, uniformity and stability. Candidates may meet the DUS standards after one growing cycle but in some cases two or more growing cycles may be required. When tests are completed the results will be sent by the Examination Office to the CPVO in the form of a UPOV model final report.

If it is considered that the candidate complies with the DUS standards, the final report will be accompanied by a variety description in the format recommended by UPOV. If not the reasons for failure and a summary of the test results will be included with the final report.

The CPVO must receive interim reports and final reports from the Examination Office by the date agreed between the CPVO and the Examination Office.

Interim reports and final examination reports shall be signed by the responsible member of the staff of the Examination Office and shall expressly acknowledge the exclusive rights of disposal of CPVO.

V - LIAISON WITH THE APPLICANT

If problems arise during the course of the test the CPVO should be informed immediately so that the information can be passed on to the applicant. Subject to prior agreement, the applicant may be directly informed at the same time as the CPVO particularly if a visit to the trial is advisable.

The interim report and final report shall be sent by the Examination Office to the CPVO.

VI – ENTRY INTO FORCE

The present protocol enters into force on 07/03/2009. Any ongoing DUS examination of candidate varieties started before the aforesaid date will not be affected by the approval of the new TP. Technical examinations of candidate varieties are carried out according to the TP in force when the DUS test starts. The starting date of a DUS examination is considered to be the due date for submitting of plant material for the first test period.

In cases where the Office requests to take-over a DUS report for which the technical examination has either been finalized or which is in the process to be carried out at the moment of this request, such report can only be accepted if the technical examination has been carried out according to the CPVO TP which was in force at the moment when the technical examination started.

ANNEXES TO FOLLOW

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List of characteristics to be observed	9
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<u>Legend:</u>	
QL Qualitative characteristic	
QN Quantitative characteristic	
PQ Pseudo-qualitative characteristic	
(a) – (b) See explanations on the Table of characteristics	
(+) See explanations on the Table of characteristics	
(*): Important characteristic to be included in the UPOV variety description	
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Technical Questionnaire	

ANNEX 1 TABLE OF CHARACTERISTICS

CPVO N°	UPOV N°	Characteristics	Examples	Note
1.	1. (* QL)	Plant: branching	absent	1
			present	9
2.	2. (* QN)	Plant: number of branches	few	Lilo 3
			medium	Freedom 5
			many	Regina 7
3.	3. (* QN)	Plant: height	short	Duepremapri 3
			medium	Fiscor 5
			tall	Fismille 7
4.	4. QN)	Plant: width	narrow	Eckalon 3
			medium	Red Angel 5
			broad	Fismille 7
5.	5. (* QN)	Stem: intensity of green colour on middle third	weak	Winpeach 3
			medium	Duepremapri 5
			strong	Duearcwi 7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
6.	6. (* QN	Stem: intensity of anthocyanin coloration of middle third	absent or very weak	White Freedom	1
			weak	Fisson Orange	3
			medium	Fisson	5
			strong	Freedom	7
7.	7. (* QN	Stem: anthocyanin coloration on upper third	absent or weak	Ice Punch	1
			medium	Freedom Marble	2
			strong		3
8.	8. (* QN (a)	Leaf blade: length	short	Dueavant	3
			medium	Fiscor	5
			long	Winterfest Red	7
9.	9. (* QN (a)	Leaf blade: width	narrow	Fiscor	3
			medium	Duecowwhite	5
			broad	White Freedom	7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
10.	10. (+) PQ (a)	Leaf blade: shape	deltoid	1	
			ovate	2	
			lanceolate	Fiscor	3
			elliptic	4	
			circular	5	
11.	11. (+) PQ (a)	Leaf blade: shape of base	wedge-shaped	Dueavant	1
			rounded	Marblestar	2
			truncate	Dueinfinity	3
			cordate	Early Joy	4
12.	12. (* (+) QL (a)	Leaf blade: number of colours on <u>upper</u> side	one	Fiscor	1
			two	Dueavant	2
			more than two	Fismarble Silver	3
13.	13. (* QN (a)	<u>Only varieties with one-colored leaves:</u> Leaf blade: intensity of green colour	light		3
			medium	Peterstar	5
			strong	Fiscor	7

CPVO N°	UPOV N°	Characteristics	Examples	Note
14.	14. (+) PQ (a)	<u>Only varieties with more than one-colored leaves:</u> Leaf blade: main colour		1
				2
			Bright Red Queen	3
			Dueavant	4
			Fismarble Silver	5
			Carousel Dark Red	6
				7
15.	15. (+) PQ (a)	<u>Only varieties with more than one-colored leaves:</u> Leaf blade: secondary colour	Fismarble Silver	1
			Bright Red Queen	2
				3
				4
				5
				6
			Dueavant	7
			Carousel Dark Red	8

CPVO N°	UPOV N°	Characteristics	Examples	Note	
16.	16. (+) PQ (a)	<u>Only varieties with more than two-colored leaves:</u> Leaf blade: tertiary colour	white	Silverleaf	1
			yellowish		2
			yellowish green	Bright Red Queen	3
			light green		4
			medium green		5
			greyish green		6
			dark green		7
			very dark green		8
17.	17. PQ (a)	Leaf blade: colour of main vein on <u>upper</u> side	only green	Freedom Marble	1
			green and red	Petoy	2
			only red	KLEW01063	3
18.	18. (+) QN (a)	Leaf blade: number of lobes	none or few	Regina	1
			medium	Fisdra	2
			many	Dueavant	3

CPVO N°	UPOV N°	Characteristics	Examples	Note	
19.	19. (+) QN (a)	Leaf blade: depth of deepest sinus	shallow	KLEW01063	3
			medium	Dueavant	5
			deep	Duemerlot	7
20.	20. (+) QN (a)	Leaf blade: curvature of main vein	absent or weak	Fiscor	1
			medium	Eckalverta	2
			strong	Eckaddis	3
21.	21. (*) QN (a)	Petiole: length	short	Duepreimhopi	3
			medium	Fiscor	5
			long	Purple Heart	7
22.	22. QN (a)	Petiole: intensity of green colour on <u>upper</u> side	weak	White Freedom	3
			medium	Blizzard	5
			strong		7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
23.	23. QN (a)	Petiole: anthocyanin coloration on <u>upper</u> side	absent or very weak		1
			weak	Ice Punch	3
			medium	Fisdra	5
			strong	Freedom	7
24.	24. (* (*) QN (a)	Petiole: anthocyanin coloration on <u>lower</u> side	absent or weak	Ice Punch	1
			medium	Early Red	2
			strong	Freedom	3
25.	25. (* (+) QN (b)	Transitional leaves: number of partly bract-colored leaf blades	few	Fismille	3
			medium	Dueacwi	5
			many	Renate	7
26.	26. (* (+) QN (b)	Transitional leaves: number of fully bract-colored leaf blades	few	Renate	3
			medium	Duecitric	5
			many	Fismille	7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
27.	27. (* (+) QN (b)	Transitional leaves: lobing	absent or weak	Duepre	1
			medium	Christmas Angel	2
			strong	Lazzporega	3
28.	28. (+) QN (b)	Transitional leaves: curvature along main vein of fully bract-colored leaf blades	absent or weak	Fiscor	1
			medium	Eckalverta	2
			strong	Winred	3
29.	29. (* (+) QN	Bract: number	few	Duecitric	3
			medium	Renate	5
			many	Fismille	7
30.	30. (* QN	Largest bract: length (including petiole)	short	Stargazer	3
			medium	Ice Punch	5
			long	Temptation Red	7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
31.	31. (* QN	Largest bract: width (including petiole)	narrow	Stargazer	3
			medium	Ice Punch	5
			broad	Duepreimhopi	7
32.	32. (* (+ PQ	Largest bract: shape	ovate	Eckalon	1
			elliptic	Fiscor	2
			oblanceolate	Dueavant	3
			obovate		4
33.	33. (* (+ QL	Bract: number of colours of <u>upper</u> side	one	Fiscor	1
			two	Ice Punch	2
			more than two	Marblestar	3
34.	34. (* PQ	<u>Only varieties with one colored bract:</u> Bract: colour of <u>upper</u> side	RHS Colour Chart (indicate reference number)		
35.	35. (* (+ QL	<u>Only varieties with more than one colored bract:</u> Bract: marbling of <u>upper</u> side	absent	Monet	1
			present	Marblestar	9

CPVO N°	UPOV N°	Characteristics	Examples	Note
36.	36. (* (+) PQ	<u>Only varieties with marbled bracts: Bract: main colour of upper side</u>	RHS Colour Chart (indicate reference number)	
37.	37. (* (+) PQ	<u>Only varieties with marbled bracts: Bract: secondary colour of upper side</u>	RHS Colour Chart (indicate reference number)	
38.	38. (* (+) PQ	<u>Only varieties with marbled bracts with more than two colours: Bract: tertiary colour of upper side</u>	RHS Colour Chart (indicate reference number)	
39.	39. QN	Bract: spotting of upper side	absent or very weak medium very strong Marble Star Pink Peppermint Pepmondic	1 3 5
40.	40. (* PQ	Bract: colour of spots of upper side	RHS Colour Chart (indicate reference number)	

CPVO N°	UPOV N°	Characteristics	Examples	Note
41.	41. (* PQ	<u>Only varieties with one colored bracts: Bract: colour of lower side</u>	RHS Colour Chart (indicate reference number)	
42.	42. (* (+ PQ	<u>Only varieties with marbled bracts: Bract: main colour of lower side</u>	RHS Colour Chart (indicate reference number)	
43.	43. (* (+ PQ	<u>Only varieties with marbled bracts: Bract: secondary colour of lower side</u>	RHS Colour Chart (indicate reference number)	
44.	44. (* (+ PQ	<u>Only varieties with marbled bracts with more than two colours: Bract: tertiary colour of lower side</u>	RHS Colour Chart (indicate reference number)	
45.	45. (* PQ	<u>Only varieties with spotted bracts: Bract: colour of spots of lower side</u>	RHS Colour Chart (indicate reference number)	
46.	46. (+ QL	Bract: folding along the main vein	absent present	Fiscor Duetwister 1 9

CPVO N°	UPOV N°	Characteristics	Examples	Note	
47.	47. (+) QL	Bract: twisting	absent	Fiscor	1
			present	Future	9
48.	48. QN	Bract: rugosity between veins	absent or very weak	Ice Punch	1
			weak	Duearcwi	3
			medium	Purple Heart	5
			strong	Winwhite	7
			very strong	Winred	9
49.	49. (* (+) QN	Cyme: width	narrow	Duecitric	3
			medium	Eckabud	5
			broad	Purple Heart	7
50.	50. (* QN	Cyathium: size of glands	small	Purple Heart	3
			medium	Fismars Marble	5
			large	Peterstar	7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
51.	51. (* (+) PQ	Cyathium: main colour of gland	yellow	Duepremapri	1
			orange	Peterstar	2
			red	Temptation Red	3
52.	52. (+) QL	Cyathium: deformation of glands	absent		1
			present		9
53.	53. (+) QN	Time of opening of cyathia	early	Estrella Red	3
			medium	Fismars Crème	5
			late	Duearcwi	7

EXPLANATIONS ON THE TABLE OF CHARACTERISTICS

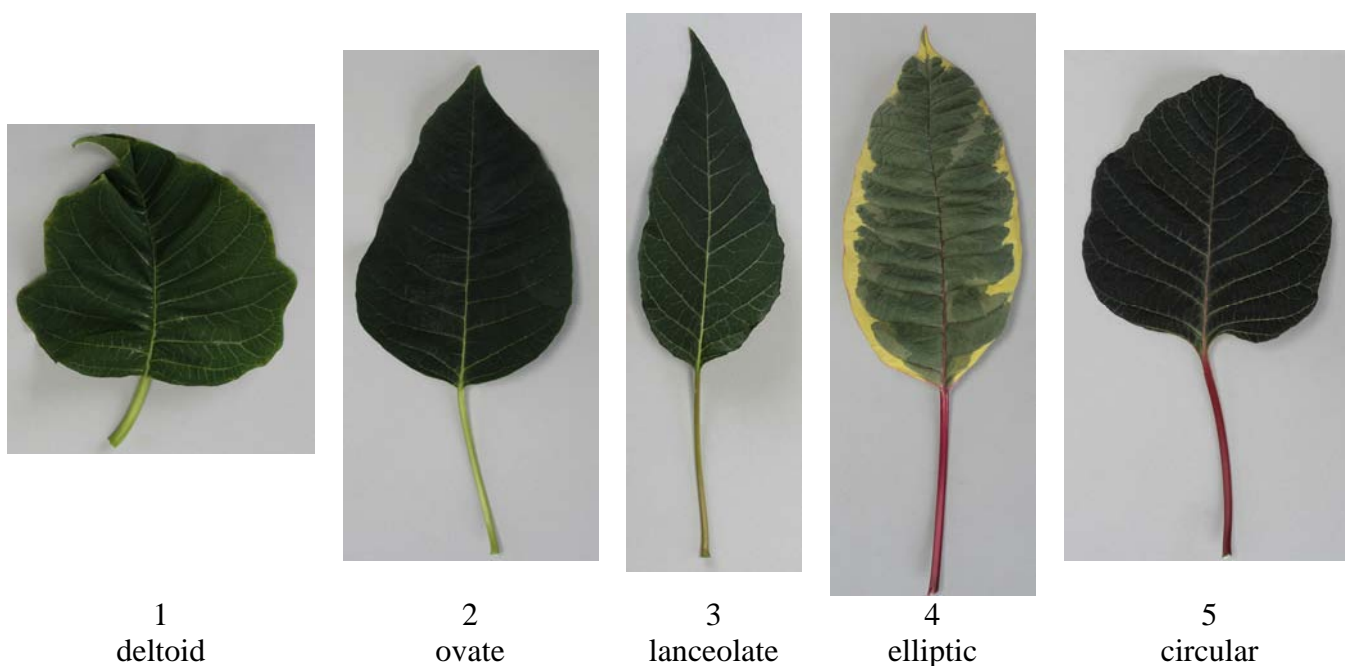
Explanations covering several characteristics

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

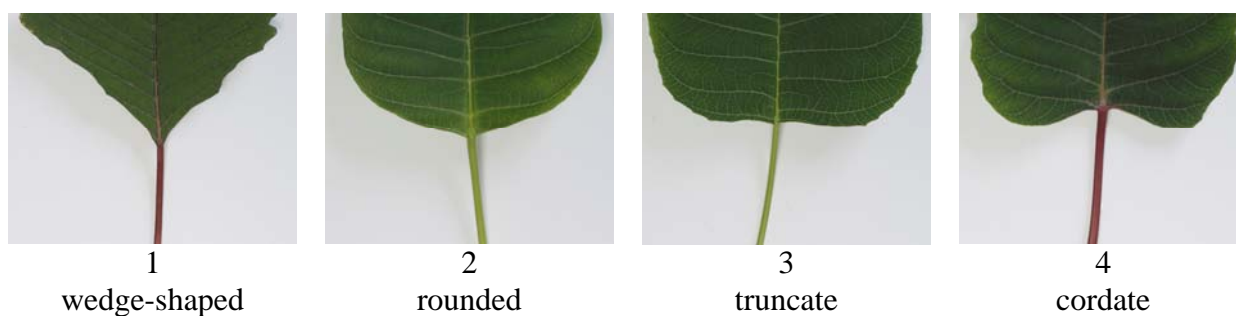
- (a) Leaf and petiole: observations on the leaf should be made on the second fully developed leaf from the top.
- (b) Transitional leaves are leaves with partly bract-colored or fully bract-colored leaf blades.

Explanations for individual characteristics

Ad.10: Leaf blade: shape



Ad.11: Leaf blade: shape of base



Ad. 12: Leaf blade: number of colours on upper side



1
one



2
two



3
more than two

Ad. 14: Only varieties with more than one-colored leaves: Leaf blade: main colour

Ad. 15: Only varieties with more than one-colored leaves: Leaf blade: secondary colour

Ad. 16: Only varieties with more than two-colored leaves: Leaf blade: tertiary colour

The main colour is the colour with the largest surface area. The secondary colour is the colour with the second largest surface area. If the area of the colour is nearly equal, the darker colour is the main colour. The tertiary colour is the colour with the third largest surface area.

Ad. 18: Leaf blade: number of lobes



1
none or few

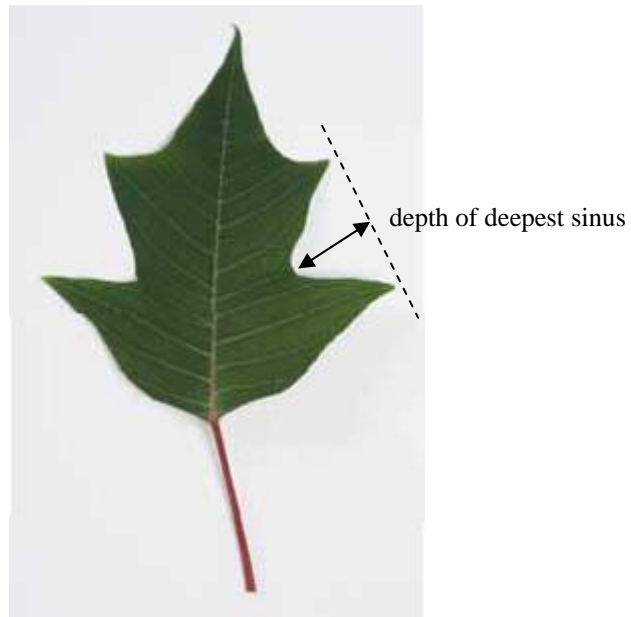


2
medium



3
many

Ad. 19: Leaf blade: depth of deepest sinus



3
shallow



5
medium



7
deep

Ad. 20: Leaf blade: curvature of main vein



3
strong

Ad. 25: Transitional leaves: number of partly bract-colored leaf blades

Ad. 26: Transitional leaves: number of fully bract-colored leaf blades

Ad. 29: Bract: number



partly bract-colored leaf blade



fully bract-colored leaf blade



bract

partly bract-colored
leaf blade

bract



fully bract-colored
leaf blade

Ad. 27: Transitional leaves: lobing



1
absent or weak



2
medium



3
strong

Ad. 28: Transitional leaves: curvature along main vein of fully bract-colored leaf blades



1
absent or weak



2
medium



3
strong

Ad. 32: Largest bract: shape



1
ovate



2
elliptic



3
oblanceolate



4
obovate

Ad. 33: Bract: number of colours of upper side



1
one

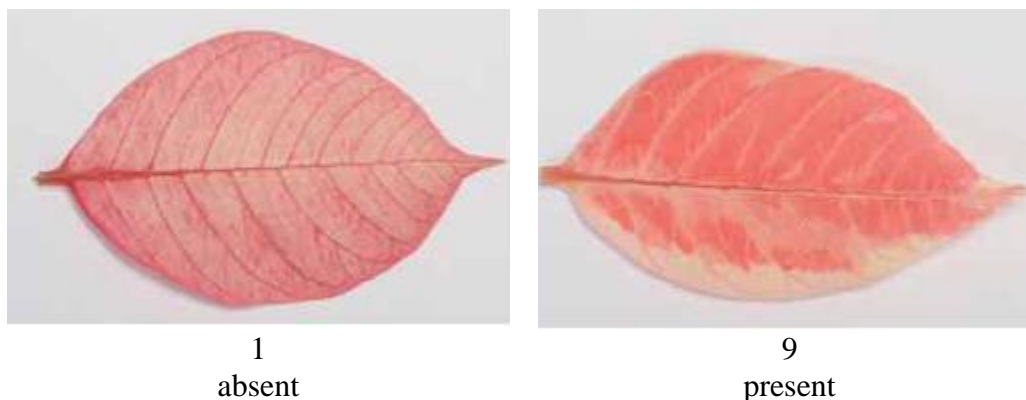


2
two



3
more than two

Ad. 35: Only varieties with more than one colored bracts: Bract: marbling of upper side



Marbling concerns areas of colour which have clearly defined, angular margins.

Ad. 36: Only varieties with marbled bracts: Bract: main colour of upper side

Ad. 37: Only varieties with marbled bracts: Bract: secondary colour of upper side

Ad. 38: Only varieties with marbled bracts with more than two colours: Bract: tertiary colour of upper side

The main colour is the colour with the largest surface area. The secondary colour is the colour with the second largest surface area. If the area of the colour is nearly equal, the darker colour is the main colour. The tertiary colour is the colour with the third largest surface area.

Ad. 42: Only varieties with marbled bracts: Bract: main colour of lower side

Ad. 43: Only varieties with marbled bracts: Bract: secondary colour of lower side

Ad. 44: Only varieties with marbled bracts with more than two colours: Bract: tertiary colour of lower side

The main colour is the colour with the largest surface area. The secondary colour is the colour with the second largest surface area. If the area of the colour is nearly equal, the darker colour is the main colour. The tertiary colour is the colour with the third largest surface area.

Ad. 46: Bract: folding along the main vein



1
absent



9
present

Ad. 47: Bract: twisting



1
absent



9
present

Ad. 49: Cyme: width



cyme width

Ad. 51: Cyathium: main colour of gland

The main colour of the gland should be observed from above.

Ad. 52: Cyathium: deformation of glands



1
absent



9
present

Ad. 53: Time of opening of cyathia

The time of opening of cyathia is when the plants have three cyathia open.

LITERATURE

Ecke, P. et al., 2004: The Ecke Poinsettia Manual. Ball Publishing.

ANNEX II



European Union
Community Plant Variety Office

TECHNICAL QUESTIONNAIRE

to be completed in connection with an application for Community Plant Variety Rights
Please answer all questions. A question without any answer will lead to a non-attribution
of an application date. In cases where a field / question is not applicable, please state so.

- 1. Botanical taxon:** Name of the genus, species or sub-species to which the variety belongs and common name

Euphorbia pulcherrima Willd. ex Klotzsch and its hybrids

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Species *Euphorbia pulcherrima* Willd. ex Klotzsch []

Hybrid []
(indicate species used in crossing)

- 2. Applicant(s):** Name(s) and address(es), phone and fax number(s), Email address, and where appropriate name and address of the procedural representative

.....

.....

- 3. Variety denomination**

a) Where appropriate proposal for a variety denomination:

.....

b) Provisional designation (breeder's reference):

.....

4. Information on origin, maintenance and reproduction of the variety

4.1 Origin

(a) Seedling (indicate parent varieties)..... []

.....
.....
.....
.....

(b) Mutation (indicate parent variety) []

.....
.....
.....
.....

(c) Discovery (indicate where, when
and how the variety has been developed): []

.....
.....
.....
.....

(d) Other (please specify)..... []

.....
.....
.....
.....

4.2 Method of propagation

(a) Cuttings..... []

(b) *In vitro* propagation []

(c) Seed []

(d) Other (please specify): []

.....
.....
.....
.....

4.3 Other information

In the case of seed propagated varieties: method of production:

(a) Self-pollinated []

(b) Cross-pollinated (please give details)..... []

.....
.....
.....
.....

(c) Hybrid (please give details)..... []

.....
.....
.....
.....

4.4 Geographical origin of the variety: the region and the country in which the variety was bred or discovered and developed

.....

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the CPVO Protocol; please mark the state of expression which best corresponds).

Characteristics		Example varieties	Note
5.1 (12)	Leaf blade: number of colours of <u>upper</u> side	one	Fiscor 1[]
		two	Dueavant 2[]
		more than two	Fismarble Silver 3[]
5.2 (33)	Bract: number of colours of <u>upper</u> side	one	Fiscor 1[]
		two	Ice Punch 2[]
		more than two	Marblestar 3[]

Characteristics	Example varieties	Note																					
<p>Please fill in point (i) if possible, otherwise point (ii)</p>																							
<p>5.3 (i) <u>Only varieties with one colored bract:</u> Bract: colour of <u>upper</u> side (34) RHS Colour Chart (indicate reference number)</p>																							
<p>5.3 (ii) <u>Only varieties with one colored bract:</u> Bract: colour of <u>upper</u> side (34)</p> <table border="0"> <tr> <td style="padding-left: 100px;">white</td> <td></td> <td style="text-align: right;">1[]</td> </tr> <tr> <td style="padding-left: 100px;">yellow</td> <td></td> <td style="text-align: right;">2[]</td> </tr> <tr> <td style="padding-left: 100px;">pink</td> <td></td> <td style="text-align: right;">3[]</td> </tr> <tr> <td style="padding-left: 100px;">orange red</td> <td></td> <td style="text-align: right;">4[]</td> </tr> <tr> <td style="padding-left: 100px;">red</td> <td></td> <td style="text-align: right;">5[]</td> </tr> <tr> <td style="padding-left: 100px;">purple</td> <td></td> <td style="text-align: right;">6[]</td> </tr> <tr> <td style="padding-left: 100px;">other</td> <td style="text-align: center;">.....</td> <td style="text-align: right;">7[]</td> </tr> </table>			white		1[]	yellow		2[]	pink		3[]	orange red		4[]	red		5[]	purple		6[]	other	7[]
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other	7[]																					
<p>5.4 (35) <u>Only varieties with more than one colored bract:</u> Bract marbling of <u>upper</u> side</p> <table border="0"> <tr> <td style="padding-left: 100px;">absent</td> <td style="padding-left: 50px;">Monet</td> <td style="text-align: right;">1[]</td> </tr> <tr> <td style="padding-left: 100px;">present</td> <td style="padding-left: 50px;">Marblestar</td> <td style="text-align: right;">9[]</td> </tr> </table>			absent	Monet	1[]	present	Marblestar	9[]															
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<p>Please fill in point (i) if possible, otherwise point (ii)</p> <p>5.5 (i) <u>Only varieties with marbled bract:</u> Bract: main colour of <u>upper</u> side (36) RHS Colour Chart (indicate reference number)</p>																							
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Please fill in point (i) if possible, otherwise point (ii)

5.6 (i) Bract: colour of spots of upper side

(40)

RHS Colour Chart (indicate reference number)

5.6(ii) Bract: colour of spots of upper side

(40)

white	1[]
yellow	2[]
pink	3[]
orange red	4[]
red	5[]
purple	6[]
other	7[]

6. Similar varieties and differences from these varieties:

Denomination of similar variety	Characteristic in which the similar variety is different ¹⁾	State of expression of similar variety	State of expression of candidate variety

¹⁾ In the case of identical states of expressions of both varieties, please indicate the size of the difference

7. Additional information which may help to distinguish the variety

A representative printed-out colour photo of the variety **must** be added to the Technical Questionnaire.

7.1 Resistance to pests and diseases

.....

7.2 Special conditions for the examination of the variety

YES, please specify

NO

7.3 Other information

YES, please specify

NO

8. GMO-information required

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

YES NO

If yes, please add a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

