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

# TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES

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WORKING PAPER ON TEST GUIDELINES FOR IMPATIENS (Impatience valerianella Hook. f.)

Document prepared by experts from France

#### I. Subject of these Guidelines

This Test Guidelines apply to all varieties of *Impatiens vallerianella* Hook. f. of the family Balsaminacae.

#### II. <u>Material Required</u>

- 1. The competent authorities decide when, where and in what quantity and quality the plant material required for testing the variety is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must make sure that all customs formalities are complied with. As a minimum, the following quantity of material is recommended:
  - 20 rooted cuttings125 grams for seed propagated varieties
- 2. The plant material supplied should be visibly healthy, not lacking in vigor or affected by any important pests or diseases.
- 3. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

#### III. Conduct of Tests

- 1. A test should normally be conducted for one growing period after the year of establishment. If distinctness and/or uniformity cannot be sufficiently established in one growing period, the test should be extended for a second growing period.
- 2. The test should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.

The size of the tests should be such that plants or parts of plants may be removed for measurement and counting without prejudice to the observations which must be made up to the end of the growing period. Each test should include a total of 20 plants for vegetatively propagated varieties and 60 plants for seed propagated varieties. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

4. Additional tests for special purposed may be established.

#### IV. Methods and Observations

- 1. All observations determined by measurement or counting should be made on 10 plants or parts taken from each of 10 plants vegetatively propagated varieties and on 20 plants or parts taken from each of 20 plants for seed propagated varieties..
- 2. For the assessment of uniformity of vegetatively propagated varieties a population standard of 1% with an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, the maximum number of off-types allowed would be 1. (To be checked)

For the assessment of uniformity of seed propagated varieties the breeding history of the variety has to be taken into consideration.

- 3. Unless otherwise indicated, all observations should be made on typical organs of 20 plants at the time of mid maturity, this being the time when petal colour is at its most intense.
- 4. 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 DE 6500 and should fall within the tolerance set out in British Standard 950, Part I. These determinations should be made with the plant part placed against a white background.

#### V. Grouping of Varieties

- 1. The collection of varieties to be grown should 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. Their various states of expression should be fairly evenly distributed throughout the collection.
- 2. It is recommended that the competent authorities use the following characteristics for grouping varieties:

(a) Leaf: variegation on upper side (characteristic 9)

(b) Flower: type (characteristic 19)

(c) Flower: number of colours (characteristic 21)

(d) Flower: main colour (characteristic 22)

#### VI. Characteristics and Symbols

- 1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the Table of Characteristics should be used.
- 2. Notes (numbers), for the purposes of electronic data processing, are given opposite the states of expression for each characteristic.

#### 3. <u>Legend</u>:

- (\*) Characteristics that should be used on all varieties in every growing period over which examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.
- (+) See Explanations on the Table of Characteristics in Chapter VIII.

### VII. Table of characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	Français	Deutsch	Español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1	Cotyledon : size	Cotylédon : taille				
	very small	très petite				1
	small	petite				3
	medium	moyenne				5
	large	grande				7
	•	très grande	to delete or to	ha kant		9
	very large	ties grande	to delete or to for seed cvs. ?	ве кері		9
2*	Plant : height of	Plante : hauteur du	Jan zaza znat			
	foliage	feuillage				
	low	basse			Pink Ice	2
	medium				Rosebud Lavender	3
		moyenne				5
24	high	haute			Thomas	7
3*	Plant: width or diameter?	Plante: largeur or diamètre?				
	narrow	Etroite				3
	medium	Moyenne			Pink Ice	5
	broad	Large			Cesilie	7
4	Cham a andha ananin	o4 Time a mathematic				
4	Stem: anthocyanin a upper third	au tiers supérieur				
	absent or very weak	absente ou très faible			Gumbo	1
	weak	Faible			Piquant	3
	medium	Moyenne			Cesilie	5
	strong	Forte			Burgund	7
	very strong	très forte			8	9
F.w.	T 6 1 41	T				
5*	Leaf: length (including petiole)	Feuille : longueur (pétiole compris)				
	short	Courte				3
	medium	Moyenne			Pink Ice	5
	long	Longue				7
6*	Leaf : width	Feuille : largeur				
6*						3
6*	narrow	Etroite			Pink Ice	3 5
6*					Pink Ice	3 5 7
<b>6</b> * <b>7</b> *	narrow medium	Etroite Moyenne			Pink Ice	5
	narrow medium Broad  Leaf: ratio length/windth	Etroite Moyenne large  Feuille: rapport longueur/largeur			Pink Ice	5 7
	narrow medium Broad  Leaf: ratio length/windth  Small	Etroite Moyenne large  Feuille: rapport longueur/largeur petit			Pink Ice	5 7
	narrow medium Broad  Leaf: ratio length/windth  Small Medium	Etroite Moyenne large  Feuille: rapport longueur/largeur  petit moyen			Pink Ice	5 7
	narrow medium Broad  Leaf: ratio length/windth  Small	Etroite Moyenne large  Feuille: rapport longueur/largeur petit			Pink Ice	5 7
7*	narrow medium Broad  Leaf: ratio length/windth  Small Medium Large	Etroite Moyenne large  Feuille: rapport longueur/largeur  petit moyen grand			Pink Ice	5 7

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	English	Français	Deutsch	Español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9*TQ	Leaf : variegation of upper side	Feuille : panachure sur la face supérieure			<u> </u>	
	absent present	Absente Présente			Gumbo Pink Ice	1 9
10*TQ	Leaf: ground color on (or of?) upper side	Feuille : couleur de fond face supérieure				
	green red	verte rouge			Gumbo	1 2
11*	Leaf : intensity of ground color of upper side	Feuille : intensité couleur de fond face supérieur				
	light medium dark	claire moyenne foncée			Cesilie	3 5 7
12	Leaf: ornamentation of upper side	Feuille : ornemen- tation de la face supérieure				
	absent	absente présente				1 9
13	Leaf : size of ornamentation of	Feuille : taille de l'ornementation	proposal to delete			
	upper side	de la face supérieure				
	small medium large	petite moyenne grande	proposal to delete			3 5 7
14	Leaf: color of ornamentation of upper side	Feuille : couleur de l'ornementation de la face supérieure	proposai io uciere			
	cream yellow yellow and red	crème jaune jaune et rouge	proposal to delete			1 2 3
15*	Leaf : color between veins of lower side	Feuille : couleur entre les nervures de la face intérieure				
	green red	verte rouge	proposal to delete	the asterisk		1 2
16	Leaf : color of veins on lower side	Feuille : couleur des nervures sur la face intérieure				
	green red	verte rouge			Gumbo Didi Orange	1 2

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	English	Français	Deutsch	Español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17	Petiole : anthocyanin coloration of upper side	Pétiole : anthocyane sur la face supérieure			<u> </u>	
	absent or very weak weak	absent ou très faible faible				1 3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
18	Peduncle: anthocyanin coloration	Pédoncule : couleur de l'anthocyane	2			
	absent or very weak	absent ou très faible			Gumbo	1
	weak	faible			Didi Orange	3
	medium	moyenne				5
	strong	forte				7
	very strong	très forte				9
19*TQ	Flower : type	Fleur : type				
	single	simple			Gumbo	1
	double	double			Didi Orange	2
20*TQ	Flower : diameter	Fleur : diamètre				
	very small	très petit				1
	small	petit			Pink Ice	3
	medium	moyen				5
	large	grand			Gumbo	7
	very large	très grand				9
21*TQ	Flower:	Fleur : nombre de				
	number of colors	couleurs				
	one	une				1
	two	deux				2
22*TQ	Flower : main color	Fleur: couleur				
	DHG C 1 CI	principale				
	RHS Colour Chart	indiquer la couleur du				
	(Indicate reference number)	code RHS				
23*TQ	Flower : secondary color	Fleur : couleur secondaire				
	RHS Colour Chart	indiquer la couleur du				
	(Indicate reference number)	code RHS				
24*+	Upper petal : width	Pétale supérieur :				
		largeur				
	Narrow	Petite			Gumbo	3
	Medium	moyenne				5
	Broad	grande			Piquant	7

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	English	Français	Deutsch	Español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25*+	Lateral petal : width	Pétale latéral : larg	eur		•	
	narrow	petite				3
	medium	moyenne				5
	broad	grande				7
26*TQ	Petal : differently	Pétale : zone coloré	e			
	colored zone at base	différemment à				
		la base				
	absent	absente			Gumbo	1
	present	présente			Piquant	9
27*	Petal : size of the	Pétale : taille de la				
	differently colored	zone colorée				
	zone at base	différemment à la b	oase			
	small	Petite				3
	medium	Moyenne			Piquant	5
	large	Grande			-	7
28*	Petal : color of the differently colored	Pétale : couleur de zone colorée				
	zone at base	différemment à la b	oase			
	RHS Colour Chart	indiquer la couleur d	lu			
	(Indicate reference	code RHS				
	number)					
29	Time of beginning of	Floraison : époque				
	flowering	de début de la				
		floraison				
	early	précoce				3
	medium	moyenne				5
	late	tardive				7

### X. Technical Questionnaire

			Reference Number (not to be filled in by the applicant)
	to be completed in o	TECHNICAL QUESTION connection with an applicat	NNAIRE ion for plant breeders' rights
1.	Species	Impatiens walleriana Hoo	ok. f.
		IMPATIENS	
2.	Applicant (Name and a	ddress)	
3.	Proposed denomination	or breeder's reference	

4.	Informa	tion 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 and when)	
			[]
	(d)	Other (specify)	
			[]
4.2	Method	of reproduction	
	_	cuttings	[]
	_	in vitro propagation	[]
	- ot	her (state method)	[]
4.3	Other in	formation	

5.	Characteristics of the variety to be indicated (the numl corresponding characteristic in Test Guidelines; please which best corresponds).		
	Characteristics	Example Varieties	Note
<b>5.1</b> (9)	Leaf: variegation of upper side		
	absent	Gumbo	1[ ]
	present	Pink Ice	9[ ]
5.2 (6)	Leaf: ground color on upper side		
	green	Gumbo	1[ ]
	red		9[]
5.3 (19)	Flower: type		
	single	Gumbo	1[ ]
	double	Didi Pink	2[ ]
5.4 (21)	Flower: diameter		
	small	Pink Ice	3[ ]
	medium		5[ ]
	large	Gumbo	7[ ]
5.5(i) (22)	Flower: main color		
	RHS Colour Chart (indicate reference number)		
5.5(ii) (22)	Flower: main color		
	white		1[ ]
	pink		2[ ]
	blue pink		3[ ]
	orange		4[ ]
	red		5[ ]
	purple		6[ ]
	violet		7[ ]
	other color (indicate)		8[ ]

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	Characteristics	Example Varieties	Note
5.6 (23)	Flower: secondary color		
	white		1[ ]
	pink		2[ ]
	blue pink		3[ ]
	orange		4[ ]
	red		5[ ]
	purple		6[ ]
	violet		7[ ]
	other color (indicate)		8[ ]
5.7 (26)	Petal: zone at base		
	absent	Gumbo	1[ ]
	present	Piquant	9[]

6.	Similar varieties	and differences from the	se varieties	
	Denomination of similar variety	Characteristic in which the similar variety is different o	State of expression of similar variety	State of expression of candidate variety
<u>o)</u>	In the case of ide the difference.	ntical states of expression	ons of both varieties, plea	se indicate the size of
7.	Additional inform	nation which may help to	distinguish the variety	
7.	1 Resistance to pes	and diseases		
7.2	2 Special condition	s for the examination of	the variety	
7.3	3 Other information	1		
A	representative color	photo of the variety shou	ld be added to the Techni	ical Questionnaire.

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(a)		• 1	1	for release under le nt, human and anim	C
	Yes	[]	No	[]	
(b)	Has such authorization been obtained?				
	Yes	[ ]	No	[]	

[End of document]