



TG/189/1

INTERNATIONAL UNION  
FOR THE PROTECTION  
OF NEW VARIETIES OF  
PLANTS

UNION INTERNATIONALE  
POUR LA PROTECTION  
DES OBTENTIONS  
VÉGÉTALES

INTERNATIONALER  
VERBANDZUMSCHUTZ  
VON PFLANZEN -  
ZÜCHTUNGEN

UNIÓN INTERNACIONAL  
PARA LA PROTECCIÓN  
DE LAS OBTENCIONES  
VEGETALES

**GUIDELINES**  
**FOR THE CONDUCT OF TESTS**  
**FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

**PENTAS**

*(Pentas Benth.)*

**GENEVA**  
**2002**

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## GUIDELINES

### FOR THE CONDUCT OF TESTS

### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

**PENTAS**

*(Pentas Benth.)*

These Guidelines should be read in conjunction with document TG/1/2, which contains explanatory notes on the general principles on which the Guidelines have been established.

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## I. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Pentas Benth.* of the family Rubiaceae.

## II. Material Required

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:

vegetatively propagated varieties: 25 rooted cuttings;

seed propagated varieties: 1 gram of seed,  
germination capacity of at least 50%.

2. In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should be stated by the applicant.

3. The plant material supplied should be visibly healthy, not lacking in vigor or affected by any important pests or diseases.

4. 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. The tests for vegetatively propagated varieties should normally be conducted over one growing cycle. If the examination cannot be completed in one growing cycle, the test should be extended for a second growing cycle.

2. The test for seed-propagated varieties should normally be conducted over two independent growing cycles.

3. 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.

4. 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.

Seedpropagatedvarieties :

- Sowing-time: January (Northern Hemisphere) is recommended for flowering in May
- Growingmedium: Well-drained; seeds should be covered with a very thin layer of sand, and with a thin layer of transparent PVC and cloth until germination
- Temperature: Germination should occur after 2 -3 weeks at a temperature of 18-20 °C

Vegetativelypropagatedvarieties :

- Growingmedium: Well-drained, fertile, with a high content of organic matter or organic substrate
- Temperature: Minimum of 17 °C

The size of the plots 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 cycle. For vegetatively propagated varieties, each test should be designed to result in a total of at least 25 plants. For seed propagated varieties, each test should be designed to result in a total of at least 100 plants. Separate plots for observation and for measuring should only be used if they have been subject to similar environmental conditions.

5. Additional tests for special purposes may be established.

IV. Methods and Observations

1. Unless otherwise indicated, all observations on vegetatively propagated varieties should be made on 10 plants or part taken from each of 10 plants.
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 25 plants, the maximum number of off-types allowed would be 1.
3. For the assessment of uniformity of seed propagated varieties, the recommendations in the General Introduction for cross-pollinated or hybrid varieties should be followed, as appropriate.
4. All observations on the flowers should be made at full flowering.
5. 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 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) Plant: height (characteristic 2)
- (b) Corolla lobe: main color on upper side (characteristic 26) with the following groups:

- Gr.1: white
- Gr.2: light pink
- Gr.3: pink
- Gr.4: red
- Gr.5: purple

## 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. Legend:

(\*) Characteristics that should be used on all varieties in every growing cycle 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. h

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

VII. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tablă de caractere

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1. Plant: growth habit (*)</b>	<b>Plante: port</b>	<b>Pflanze: Wuchsform</b>	<b>Planta: hábitode crecimiento</b>		
upright	dressé	aufrecht	erecto		1
semi-upright	demi-dressé	halbaufrecht	semierecto		2
spreading	étalé	breitwüchsig	rastrero	Mercur, Romance	3
<b>2. Plant: height (*)</b>	<b>Plante: hauteur</b>	<b>Pflanze: Höhe</b>	<b>Planta: altura</b>		
short	courte	niedrig	baja		3
medium	moyenne	mittel	media		5
tall	grande	hoch	alta	Festival, Partytime	7
<b>3. Stem: length of internodes (in middle third) (*)</b>	<b>Tige: longueur des entrenœuds (autiers supérieur)</b>	<b>Haupttrieb: Länge der Internodien (im mittleren Drittel)</b>	<b>Tallo: longitud de los entrenudos (en el terciomedio)</b>		
short	courts	kurz	cortos		3
medium	moyens	mittel	medios	Lola, Titan	5
long	longs	lang	largos	Apollo, Venus	7
<b>4. Stem: green color (*)</b>	<b>Tige: couleur verte</b>	<b>Haupttrieb: Grünfärbung</b>	<b>Tallo: color verde</b>		
light	claire	hell	claro	Jupiter, Mercur, Saturn	3
medium	moyenne	mittel	medio		5
dark	foncée	dunkel	oscuro	Romance	7
<b>5. Stem: anthocyanin coloration (*)</b>	<b>Tige: pigmentation anthocyanique</b>	<b>Haupttrieb: Anthocyanfärbung</b>	<b>Tallo: pigmentación antocianica</b>		
absent	absente	fehlend	ausente	Saturn	1
present	présente	vorhanden	presente	Jupiter, Lore	9
<b>6. Leaf blade: length (*)</b>	<b>Limbe: longueur</b>	<b>Blattspreite: Länge</b>	<b>Limbo: longitud</b>		
short	court	kurz	corto		3
medium	moyen	mittel	medio	Lina, Pluto	5
long	long	lang	largo	Festival, Lilac In, Saturn	7



English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>7. Leafblade:width (* )</b>	<b>Limbe:largeur</b>	<b>Blattspreite:Breite</b>	<b>Limbo:anchura</b>		
narrow	étroit	schmal	estrecho	Lina	3
medium	moyen	mittel	medio	LilacIn	5
broad	large	breit	ancho	Jupiter	7
<b>8. Leafblade:shape (* )</b>	<b>Limbe:forme</b>	<b>Blattspreite:Form</b>	<b>Limbo:forma</b>		
ovate	ovale	eiförmig	oval	Lilli	1
elliptic	elliptique	elliptisch	elíptico	Comet,LilacIn, PurpleRain	2
obovate	obovale	verkehrteiförmig	oboval		3
<b>9. Leafblade:green (* ) colorofupperside</b>	<b>Limbe:couleur vertedelapartie supérieure</b>	<b>Blattspreite: Grünfärbungder Oberseite</b>	<b>Limbo:colorverde delahaz</b>		
light	claire	hell	claro		3
medium	moyenne	mittel	medio	Galaxy	5
dark	foncée	dunkel	oscuro	Romance,Saturn	7
<b>10. Leafblade: (* ) pubescence</b>	<b>Limbe:pilosité</b>	<b>Blattspreite: Behaarung</b>	<b>Limbo:pubescencia</b>		
sparse	faible	locker	rala	Mars,PinkIn	3
medium	moyenne	mittel	media	Festival,Partytime	5
dense	forte	dicht	densa		7
<b>11. Leafblade: blistering</b>	<b>Limbe:cloûre</b>	<b>Blattspreite: Blasigkeit</b>	<b>Limbo:abullonado</b>		
absentorveryweak	nulleoutrèsfaible	fehlendodersehr gering	ausenteomuydébil	Lina	1
weak	faible	gering	débil	LilacIn,Partytime	3
medium	moyenne	mittel	medio		5
strong	forte	stark	fuerte		7
verystrong	trèsforte	sehrstark	muyfuerte		9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>12. Inflorescence:</b> (* <b>maximum</b> (+) <b>diameter</b>	<b>Inflorescence:</b> <b>diamètre <u>maximal</u></b>	<b>Blütenstand: <u>größter</u></b> <b>Durchmesser</b>	<b>Inflorescencia:</b> <b>diámetro <u>máximo</u></b>		
small	petit	klein	pequeño		3
medium	moyen	mittel	medio	Festival	5
large	grand	groß	grande	LilacIn	7
<b>13. Inflorescence:</b> (* <b>minimum</b> (+) <b>diameter</b>	<b>Inflorescence:</b> <b>diamètre <u>minimal</u></b>	<b>Blütenstand: <u>kleinster</u></b> <b>Durchmesser</b>	<b>Inflorescencia:</b> <b>diámetro <u>mínimo</u></b>		
small	petit	klein	pequeño		3
medium	moyen	mittel	medio		5
large	grand	groß	grande		7
<b>14. Inflorescence:</b> (* <b>height</b> (+) <b>height</b>	<b>Inflorescence:</b> <b>hauteur</b>	<b>Blütenstand:Höhe</b>	<b>Inflorescencia:</b> <b>altura</b>		
low	basse	niedrig	baja		3
medium	moyenne	mittel	media		5
high	haute	hoch	alta		7
<b>15. Inflorescence:</b> (* <b>shape of upper</b> (+) <b>side</b>	<b>Inflorescence: forme</b> <b>de la face supérieure</b>	<b>Blütenstand: Form</b> <b>der Oberseite</b>	<b>Inflorescencia:</b> <b>forma de la cara superior</b>		
flat	plate	eben	plana		1
rounded	arrondie	rundlich	redondeada	Galaxy, Pluto, Titan	2
<b>16. Corolla: diameter</b> (* <b>height</b>	<b>Corolle: diamètre</b>	<b>Krone: Durchmesser</b>	<b>Corola: diámetro</b>		
small	petit	klein	pequeño		3
medium	moyen	mittel	medio	Lina, Lola	5
large	grand	groß	grande		7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>17. Corollatube: (* length (+)</b>	<b>Tubedelacorolle: longueur</b>	<b>Kronenröhre:Länge</b>	<b>Tubodelacorola: longitud</b>		
short	court	kurz	corto	RedIn	3
medium	moyen	mittel	medio	Lola,Venus	5
long	long	lang	largo		7
<b>18. Corollatube:color (* )</b>	<b>Tubedelacorolle: couleur</b>	<b>Kronenröhre:Farbe</b>	<b>Tubodelacorola: color</b>		
RHS Colour Chart (indicate reference number)	Code RHS des couleurs (préciser le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
<b>19. Corollathroat: (* color of distal part (+) of hair on inner side</b>	<b>Gorgedelacorolle: couleur de la partie distale des poils de la face interne</b>	<b>Kronenschlund: Farbe des distalen Teils der Haare auf der Innenseite</b>	<b>Gargantadela corola: color de la parte distal de los pelos de la cara interior</b>		
whitish	blanchâtre	weißlich	blanquecino	Lilli,Lola,Saturn	1
pink	rose	rosa	rosa		2
red	rouge	rot	rojo		3
redpurple	rouge pourpre	rot purpur	púrpura rojizo	Purple Rain	4
bluepurple	bleu pourpre	blau purpur	púrpura azulado		5
greypurple	gris pourpre	grau purpur	púrpura grisáceo	Romance	6
<b>20. Corolla lobe: (* attitude (+)</b>	<b>Lobedelacorolle: port</b>	<b>Kronzipfel:Haltung</b>	<b>Lóbulodelacorola: porte</b>		
semi-erect	demi-dressé	halbaufrecht	semierecto	Jupiter,Lola,Saturn	1
horizontal	horizontal	waagrecht	horizontal	Festival, Partytime , Purple Rain	2
recurved	incurvé	zurückgeschlagen	recurvado		3
<b>21. Corolla lobe: (* length (+)</b>	<b>Lobedelacorolle: longueur</b>	<b>Kronzipfel:Länge</b>	<b>Lóbulodelacorola: longitud</b>		
short	court	kurz	corto	Comet	3
medium	moyen	mittel	medio	Lina,Lola	5
long	long	lang	largo		7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>22. Corolla lobe: (* ) width</b>	<b>Lobedela corolle: largeur</b>	<b>Kronzipfel:Breite</b>	<b>Lóbulodela corola: anchura</b>		
narrow	étroit	schmal	estrecho		3
medium	moyen	mittel	medio	Comet,Lina,Lola	5
broad	large	breit	ancho		7
<b>23. Corolla lobe: (* ) shape</b>	<b>Lobedela corolle: forme</b>	<b>Kronzipfel:Form</b>	<b>Lóbulodela corola: forma</b>		
ovate	ovale	eiförmig	oval	Lina,Lola,Lore	1
elliptic	elliptique	elliptisch	elíptico		2
obovate	obovale	verkehrteiförmig	oboval		3
<b>24. Corolla lobe: (* ) number of colors on upper side</b>	<b>Lobedela corolle: nombre de couleurs sur la partie supérieure</b>	<b>Kronzipfel:Anzahl Farben der Oberseite</b>	<b>Lóbulodela corola: número de colores en la cara superior</b>		
one	une	eine	uno	Festival,Jupiter,Mars	1
more than one	plus d'une	mehr als eine	más de uno	Romance	2
<b>25. Corolla lobe: main (* ) color on upper side (+)</b>	<b>Lobedela corolle: principale couleur sur la face supérieure</b>	<b>Kronzipfel: Hauptfarbe der Oberseite</b>	<b>Lóbulodela corola: color principal en la cara superior</b>		
RHS Colour Chart (indicate reference number)	Code RHS des couleurs (préciser le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indique el número de referencia)		
<b>26. Varieties with more than one color on upper side: corolla lobe : secondary color</b>	<b>Variétés ayant plus d'une couleur sur la face supérieure : lobe de la corolle: couleur secondaire</b>	<b>Sorten mit mehr als einer Farbe an der Oberseite: Kronzipfel: Sekundärfarbe</b>	<b>Variedades con más de un color en la cara superior : lóbulodela corola: color secundario</b>		
white	blanche	weiß	blanco		1
pink	rose	rosa	rosa		2
red	rouge	rot	rojo		3
red purple	rouge pourpre	rot purpur	púrpura rojizo		4
blue purple	bleu violacé	blau purpur	púrpura azulado	Romance	5

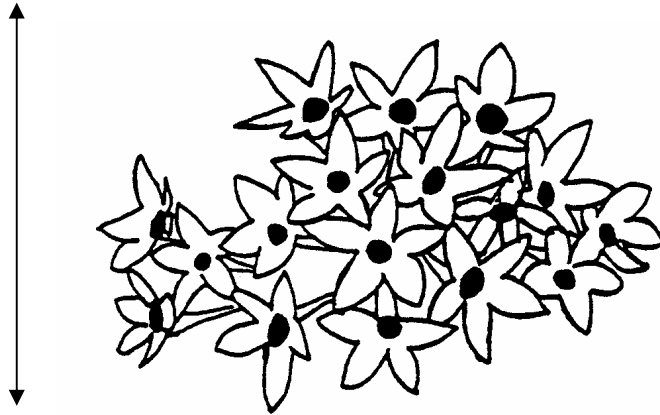
English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>27. <u>Varieties with more than one color on upper side: corolla lobe: distribution of secondary color</u></b> (*)	<b><u>Variétés ayant plus d'un couleur sur la face supérieure: lobe de la corolle: répartition de la couleur secondaire</u></b>	<b><u>Sorten mit mehr als einer Farbe an der Oberseite: Kronzipfel: Verteilung der Sekundärfarbe</u></b>	<b><u>Variedades con más de un color en la cara superior: lóbulo de la corola: distribución del color secundario</u></b>		
at the tip	à l'extrémité	an der Spitze	en el ápice		1
along margin	le long du bord	am Rand	al largo del margen	Romance	2
splashed	maculée	fleckig	manchado		3
eyed	mouchetée	augenförmig	moteado		4
median stripe	striem médiane	Mittelstreifen	estría central		5
<b>28. <u>Anthers: level in relation to top of limb</u></b> (*)	<b><u>Anthères: position par rapport au sommet du limbe</u></b>	<b><u>Antheren: Höhe im Verhältnis zum obersten Teil der Krone</u></b>	<b><u>Anteras: niveles en relación con la parte superior de la corona</u></b>		
above	au-dessus	oberhalb	por encima	Purple Rain	1
same level	au même niveau	in gleicher Höhe	al mismo nivel	Apollo	2
below	au-dessous	unterhalb	por debajo		3
<b>29. <u>Anther: color of pollen</u></b>	<b><u>Anthère: couleur du pollen</u></b>	<b><u>Anthere: Farbe des Pollens</u></b>	<b><u>Antera: color del polen</u></b>		
whitish	blanchâtre	weißlich	blanquecino		1
yellowish	jaunâtre	gelblich	amarillento	Jupiter, Mars, Mercur	2
greyish	grisâtre	gräulich	grisáceo	Purple Rain	3
<b>30. <u>Pistil: length of style</u></b> (*)	<b><u>Pistil: longueur du style</u></b>	<b><u>Stempel: Länge des Griffels</u></b>	<b><u>Pistilo: longitud del estilo</u></b>		
short	court	kurz	corto	Purple Rain	3
medium	moyen	mittel	medio	Lore, Venus	5
long	long	lang	largo	Jupiter, Saturn	7
<b>31. <u>Stigma: size of lobes</u></b> (*)	<b><u>Stigmate: taille des lobes</u></b>	<b><u>Narbe: Größe der Lappen</u></b>	<b><u>Estigma: tamaño de los lóbulos</u></b>		
small	petits	klein	pequeños	Comet	3
medium	moyens	mittel	medios	Galaxy, Jupiter	5
large	gros	groß	grandes		7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>32. Stigma: color of (* ) lobes</b>	<b>Stigmate: couleur des lobes</b>	<b>Narbe: Farber der Lappen</b>	<b>Estigma: color de los lóbulos</b>		
white	blancs	weiß	blanco	Romance	1
yellowgreen	vertjaune	gelbgrün	verdeamarillento	Galaxy, Purple Rain	2
pink	roses	rosa	rosa	Lilli, Lola	3
red	rouges	rot	rojo		4
redpurple	rouge pourpre	rot purpur	púrpura rojizo	Lilo, Partytime	5
bluepurple	bleu pourpre	blau purpur	púrpura azulado	Jupiter	6
greyish	grisâtres	gräulich	grisáceo	Comet, Pluto	7

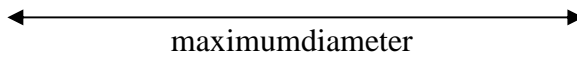
VIII. Explanations on the Table of Characteristics

Ad.12: Inflorescence: maximum diameter

Ad.13: Inflorescence: minimum diameter

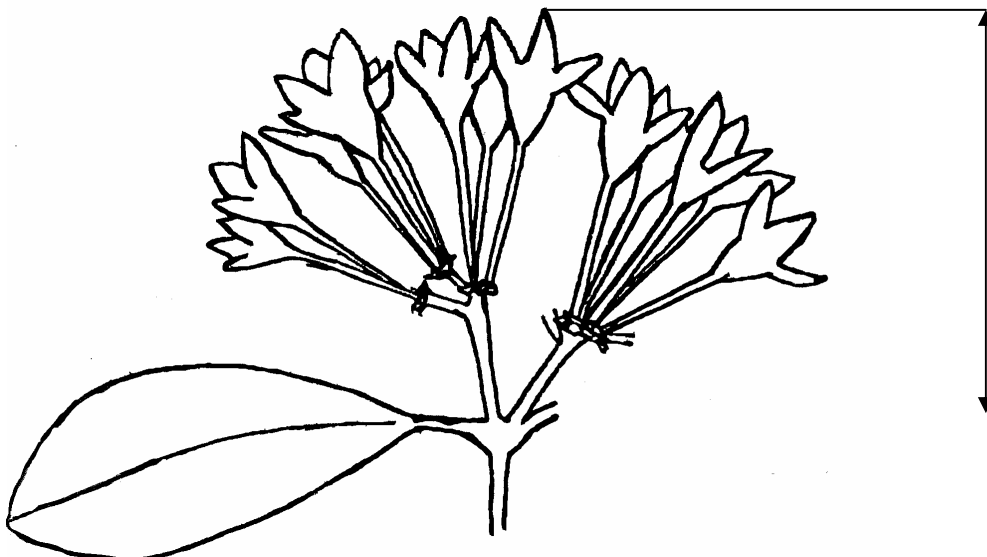


minimum  
diameter



maximum diameter

Ad.14: Inflorescence: height



height





Ad.15:Inflorescence: shapeofupperside

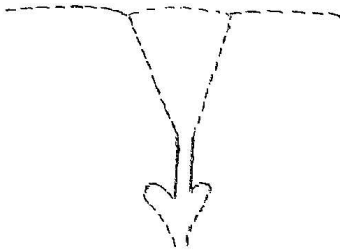


1  
flat

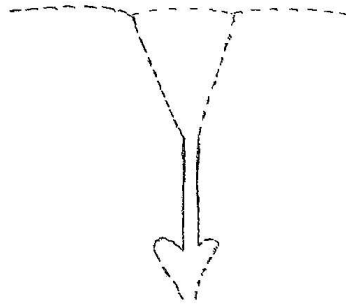


2  
rounded

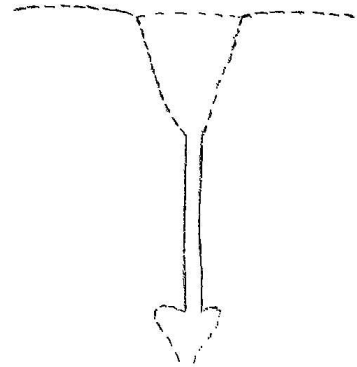
Ad.17:Corollatube:length



3  
short

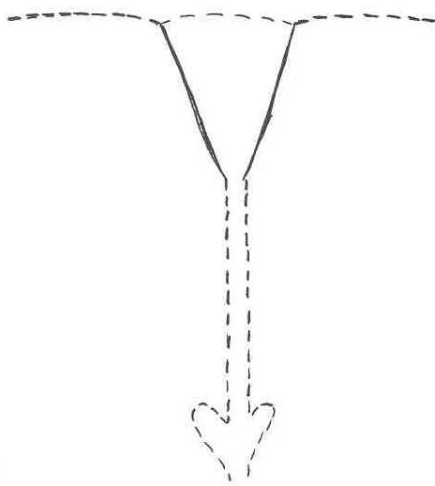


5  
medium

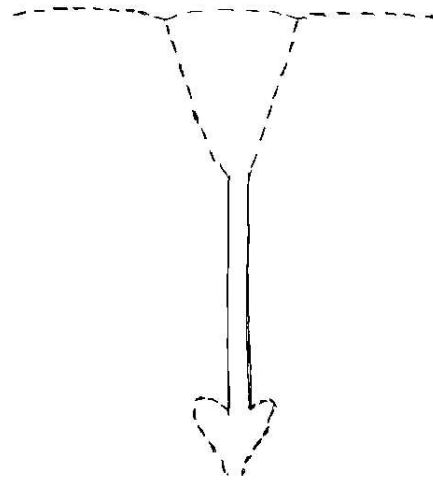


7  
long

Ad.17+19:Corollathroatandcorollatube

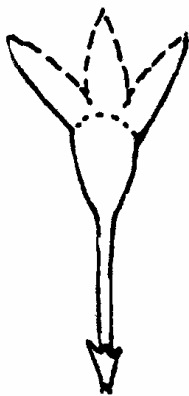


throat

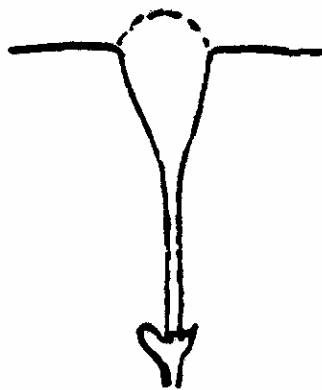


tube

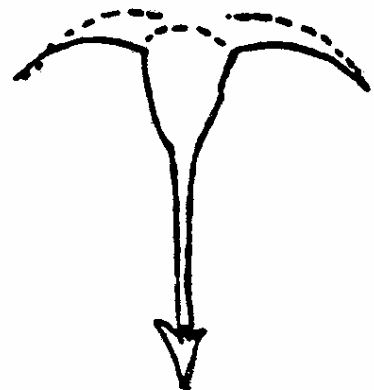
Ad.20:Corollalobe:attitude



1  
semi-erect



2  
horizontal



3  
recurved

Ad.25:Corollalobe:maincoloronupperside :

The main color of the flower is determined by the main color on the upper side of the inner tepals; the main color is the color which is present in the greatest area; in the case of bicolored or multicolored tepals where none of the colors is clearly predominant, the lightest color is considered to be the main color.

IX. Literature

Hortig A. M., Pentas lanceolata – Ein neue Beet -, Topf - und Schnittblume, Zierpflanzenbau Nr.23 -18.11.1993, pp.1002 -1004.

Papenhagen A., Sprau G., Neue Beetpflanze, wüchsig und erstaunlich witterungsfest, Gartenbörse und Gartenwelt, 1989, 2, 73 -75.

Pearse H. L., Pentas, Pentas, Pentas, Farming in South Africa, Flowers and Ornamental Shrubs j., 10/1979.

Schwarz A., Dapper H., Pentas lanceolata, Biologie und Kultur einer wenig bekannten Zierpflanze, Zierpflanzenbau Nr.25 -13.12.1989, pp.1012- 1016.

X. TechnicalQuestionnaire

	ReferenceNumber (notto befilledinbytheapplicant)
<p>TECHNICALQUESTIONNAIRE tobecpletedinconnectionwithanapplicationforplantbreeders' rights</p>	
1. Species	<p><i>Pentas</i> Benth.  PENTAS</p>
2. Applicant(Nameandaddress)	
3. Proposeddenomination orbreeder'sreference	

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 and when)

.....

(d) Other (specify)

.....

4.2 Method of reproduction

– cuttings

– *in vitro* propagation

– seed

– other (specify)

4.3 Other information

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

Characteristics	Example Varieties	Note
<b>5.1i Corolla lobe: main color on upper side (25)</b>		
RHS Colour Chart (indicate reference number)	.....	
<b>5.1ii Corolla lobe: main color on upper side (25)</b>		
white	WhiteIn	1[]
light pink	Pluto	2[]
pink	Titan	3[]
red	Partytime	4[]
purple	Apollo	5[]

6. Similar varieties and differences from these varieties

Denomination of similar variety	Characteristic in which the similar variety is different <sup>o)</sup>	State of expression of similar variety	State of expression of candidate variety
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<sup>o)</sup> In the case of identical states of expression of both varieties, please indicate the size of the difference.

7. Additional information which may help to distinguish the variety

7.1 Resistance to pests and diseases

7.2 Special conditions for the examination of the variety

Plant type:

– pot plant type

– cut flower type

7.3 Other information

Are representative color photos of the variety to be added to the Technical Questionnaire.

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 that question is yes, please attach a copy of such an authorization.

[End of document]