



**UPOV**

**TG/189/1(proj.1)**

**ORIGINAL:** English

**DATE:** 2002-02-25

**INTERNATIONAL UNION  
FOR THE PROTECTION  
OF NEW VARIETIES OF  
PLANTS**

**UNION INTERNATIONALE  
POUR LA PROTECTION  
DES OBTENTIONS  
VÉGÉTALES**

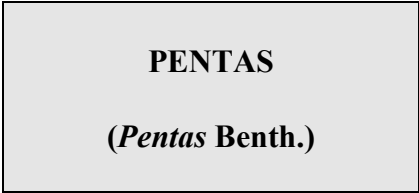
**INTERNATIONALER  
VERBAND ZUM SCHUTZ  
VON PFLANZEN-  
ZÜCHTUNGEN**

**UNIÓN INTERNACIONAL  
PARA LA PROTECCIÓN  
DE LAS OBTENCIONES  
VEGETALES**



**DRAFT**

**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.

| <u>TABLE OF CONTENTS</u>                                 | <u>PAGE</u> |
|----------------------------------------------------------|-------------|
| I. Subject of these Guidelines .....                     | 3           |
| II. Material Required .....                              | 3           |
| III. Conduct of Tests .....                              | 3           |
| IV. Methods and Observations.....                        | 4           |
| V. Grouping of Varieties .....                           | 4           |
| VI. Characteristics and Symbols .....                    | 5           |
| VII. Table of Characteristics .....                      | 6           |
| VIII. Explanations on the Table of Characteristics ..... | 13          |
| IX. Literature .....                                     | 15          |
| X. Technical Questionnaire .....                         | 16          |

## 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 seeds,  
germination capacity of at least 50%.

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. 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 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 test should be carried out under conditions ensuring normal growth.

Seed propagated varieties:

Sowing-time: January (Northern Hemisphere) is recommended for flowering in May.

Growing medium: 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.

Vegetatively propagated varieties:

Growing medium: 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.

In the case of vegetatively propagated varieties, each test should include a total of 25 plants. In the case of seed propagated varieties, each test should include 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 parts 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 rules for cross-pollinated varieties, as provided in the General Introduction, should be followed.

4. All observations on the flower 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: growth type (Technical Questionnaire 7.2)
- (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.

(+) 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<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|-------------------|-----------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------|---------------|
| <b>1.<br/>(*)</b> | <b>Plant: growth habit</b>                          | <b>Plante: port</b>                                       | <b>Pflanze: Wuchsform</b>                                       | <b>Planta: hábito de crecimiento</b>                          |                                                                        |               |
|                   | upright                                             | dressé                                                    | aufrecht                                                        | erecto                                                        |                                                                        | 1             |
|                   | semi-upright                                        | demi-dressé                                               | halbaufrecht                                                    | semierecto                                                    |                                                                        | 2             |
|                   | spreading                                           | étalé                                                     | breitwüchsig                                                    | rastrero                                                      | Mercur, Romance                                                        | 3             |
| <b>2.<br/>(*)</b> | <b>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.<br/>(*)</b> | <b>Stem: length of internodes (in middle third)</b> | <b>Tige: longueur des entrenœuds (au tiers supérieur)</b> | <b>Haupttrieb: Länge der Internodien (im mittleren Drittel)</b> | <b>Tallo: longitud de los entrenudos (en el tercio medio)</b> |                                                                        |               |
|                   | short                                               | courts                                                    | kurz                                                            | cortos                                                        |                                                                        | 3             |
|                   | medium                                              | moyens                                                    | mittel                                                          | medios                                                        | Lola, Titan                                                            | 5             |
|                   | long                                                | longs                                                     | lang                                                            | largos                                                        | Apollo, Venus                                                          | 7             |
| <b>4.<br/>(*)</b> | <b>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.<br/>(*)</b> | <b>Stem: anthocyanin coloration</b>                 | <b>Tige: pigmentation anthocyanique</b>                   | <b>Haupttrieb: Anthocyanfärbung</b>                             | <b>Tallo: pigmentación antociánica</b>                        |                                                                        |               |
|                   | absent                                              | absente                                                   | fehlend                                                         | ausente                                                       | Saturn                                                                 | 1             |
|                   | present                                             | présente                                                  | vorhanden                                                       | presente                                                      | Jupiter, Lore                                                          | 9             |

|                    | English                                          | français                                                    | deutsch                                                | español                                 | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|--------------------|--------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------|---------------|
| <b>6.<br/>(*)</b>  | <b>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             |
| <b>7.<br/>(*)</b>  | <b>Leaf blade: width</b>                         | <b>Limbe: largeur</b>                                       | <b>Blattspreite: Breite</b>                            | <b>Limbo: anchura</b>                   |                                                                        |               |
|                    | narrow                                           | étroit                                                      | schmal                                                 | estrecho                                | Lina                                                                   | 3             |
|                    | medium                                           | moyen                                                       | mittel                                                 | medio                                   | Lilac In                                                               | 5             |
|                    | broad                                            | large                                                       | breit                                                  | ancho                                   | Jupiter                                                                | 7             |
| <b>8.<br/>(*)</b>  | <b>Leaf blade: 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, Lilac In,<br>Purple Rain                                        | 2             |
|                    | obovate                                          | obovale                                                     | verkehrt eiförmig                                      | oboval                                  |                                                                        | 3             |
| <b>9.<br/>(*)</b>  | <b>Leaf blade: green<br/>color of upper side</b> | <b>Limbe: couleur<br/>verte de la partie<br/>supérieure</b> | <b>Blattspreite:<br/>Grünfärbung der<br/>Oberseite</b> | <b>Limbo: color verde<br/>de la haz</b> |                                                                        |               |
|                    | light                                            | claire                                                      | hell                                                   | claro                                   |                                                                        | 3             |
|                    | medium                                           | moyenne                                                     | mittel                                                 | medio                                   | Galaxy                                                                 | 5             |
|                    | dark                                             | foncée                                                      | dunkel                                                 | oscuro                                  | Romance, Saturn                                                        | 7             |
| <b>10.<br/>(*)</b> | <b>Leaf blade:<br/>pubescence</b>                | <b>Limbe: pilosité</b>                                      | <b>Blattspreite:<br/>Behaarung</b>                     | <b>Limbo: pubescencia</b>               |                                                                        |               |
|                    | sparse                                           | faible                                                      | locker                                                 | rala                                    | Mars, Pink In                                                          | 3             |
|                    | medium                                           | moyenne                                                     | mittel                                                 | media                                   | Festival, Partytime                                                    | 5             |
|                    | dense                                            | forte                                                       | dicht                                                  | densa                                   |                                                                        | 7             |

|                            | English                                           | français                                              | deutsch                                                  | español                                                  | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|----------------------------|---------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|---------------|
| <b>11.</b>                 | <b>Leaf blade:<br/>blistering</b>                 | <b>Limbe: cloûre</b>                                  | <b>Blattspreite:<br/>Blasigkeit</b>                      | <b>Limbo: abullonado</b>                                 |                                                                        |               |
|                            | absent or very weak                               | nulle ou très faible                                  | fehlend oder sehr gering                                 | ausente o muy débil                                      | Lina                                                                   | 1             |
|                            | weak                                              | faible                                                | gering                                                   | débil                                                    | Lilac In, Partytime                                                    | 3             |
|                            | medium                                            | moyenne                                               | mittel                                                   | medio                                                    |                                                                        | 5             |
|                            | strong                                            | forte                                                 | stark                                                    | fuerte                                                   |                                                                        | 7             |
|                            | very strong                                       | très forte                                            | sehr stark                                               | muy fuerte                                               |                                                                        | 9             |
| <b>12.<br/>(*)<br/>(+)</b> | <b>Inflorescence:<br/><u>maximum</u> diameter</b> | <b>Inflorescence:<br/>diamètre <u>maximal</u></b>     | <b>Blütenstand:<br/><u>größter</u><br/>Durchmesser</b>   | <b>Inflorescencia:<br/>diámetro <u>máximo</u></b>        |                                                                        |               |
|                            | small                                             | petit                                                 | klein                                                    | pequeño                                                  |                                                                        | 3             |
|                            | medium                                            | moyen                                                 | mittel                                                   | medio                                                    | Festival                                                               | 5             |
|                            | large                                             | grand                                                 | groß                                                     | grande                                                   | Lilac In                                                               | 7             |
| <b>13.<br/>(*)<br/>(+)</b> | <b>Inflorescence:<br/><u>minimum</u> diameter</b> | <b>Inflorescence:<br/>diamètre <u>minimal</u></b>     | <b>Blütenstand:<br/><u>kleinster</u><br/>Durchmesser</b> | <b>Inflorescencia:<br/>diámetro <u>mínimo</u></b>        |                                                                        |               |
|                            | small                                             | petit                                                 | klein                                                    | pequeño                                                  |                                                                        | 3             |
|                            | medium                                            | moyen                                                 | mittel                                                   | medio                                                    |                                                                        | 5             |
|                            | large                                             | grand                                                 | groß                                                     | grande                                                   |                                                                        | 7             |
| <b>14.<br/>(*)<br/>(+)</b> | <b>Inflorescence:<br/>height</b>                  | <b>Inflorescence:<br/>hauteur</b>                     | <b>Blütenstand: Höhe</b>                                 | <b>Inflorescencia:<br/>altura</b>                        |                                                                        |               |
|                            | low                                               | basse                                                 | niedrig                                                  | baja                                                     |                                                                        | 3             |
|                            | medium                                            | moyenne                                               | mittel                                                   | media                                                    |                                                                        | 5             |
|                            | high                                              | haute                                                 | hoch                                                     | alta                                                     |                                                                        | 7             |
| <b>15.<br/>(*)<br/>(+)</b> | <b>Inflorescence: shape<br/>of upper side</b>     | <b>Inflorescence: forme<br/>de la face supérieure</b> | <b>Blütenstand: Form<br/>der Oberseite</b>               | <b>Inflorescencia:<br/>forma de la cara<br/>superior</b> |                                                                        |               |
|                            | flat                                              | plate                                                 | eben                                                     | plana                                                    |                                                                        | 1             |
|                            | rounded                                           | arrondie                                              | rundlich                                                 | redondeada                                               | Galaxy, Pluto, Titan                                                   | 2             |

|                | English                                                          | français                                                                              | deutsch                                                                  | español                                                                               | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|----------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------|
| <b>16. (*)</b> | <b>Corolla: diameter</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             |
| <b>17. (*)</b> | <b>Corolla tube: length</b>                                      | <b>Tube de la corolle: longueur</b>                                                   | <b>Kronenröhre: Länge</b>                                                | <b>Tubo de la corola: longitud</b>                                                    |                                                                        |               |
|                | short                                                            | court                                                                                 | kurz                                                                     | corto                                                                                 | Red In                                                                 | 3             |
|                | medium                                                           | moyen                                                                                 | mittel                                                                   | medio                                                                                 | Lola, Venus                                                            | 5             |
|                | long                                                             | long                                                                                  | lang                                                                     | largo                                                                                 |                                                                        | 7             |
| <b>18. (*)</b> | <b>Corolla tube: color</b>                                       | <b>Tube de la corolle: couleur</b>                                                    | <b>Kronenröhre: Farbe</b>                                                | <b>Tubo de la corola: 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.</b>     | <b>Corolla limb: length</b>                                      | <b>Limbe de la corolle: longueur</b>                                                  | <b>Kronenrand: Länge</b>                                                 | <b>Corona de la corola: longitud</b>                                                  |                                                                        |               |
|                | short                                                            | court                                                                                 | kurz                                                                     | corto                                                                                 |                                                                        | 3             |
|                | medium                                                           | moyen                                                                                 | mittel                                                                   | medio                                                                                 |                                                                        | 5             |
|                | long                                                             | long                                                                                  | lang                                                                     | largo                                                                                 |                                                                        | 7             |
| <b>20. (*)</b> | <b>Corolla limb: color of distal part of hairs on inner side</b> | <b>Limbe de la corolle: couleur de la partie distale des poils de la face interne</b> | <b>Kronenrand: Farbe des distalen Teils der Haare auf der Innenseite</b> | <b>Corona de la 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             |
|                | red purple                                                       | rouge pourpre                                                                         | rotpurpur                                                                | púrpura rojizo                                                                        | Purple Rain                                                            | 4             |
|                | blue purple                                                      | bleu pourpre                                                                          | blaupurpur                                                               | púrpura azulado                                                                       |                                                                        | 5             |
|                | grey purple                                                      | gris pourpre                                                                          | graupurpur                                                               | púrpura grisáceo                                                                      | Romance                                                                | 6             |

|                           | English                                                     | français                                                                           | deutsch                                                | español                                                                   | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|---------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------|
| <b>21.<br/>(*<br/>(+)</b> | <b>Corolla lobe:<br/>attitude</b>                           | <b>Lobe de la corolle:<br/>port</b>                                                | <b>Kronzipfel: Haltung</b>                             | <b>Lóbulo de la corola:<br/>porte</b>                                     |                                                                        |               |
|                           | semi-erect                                                  | demi-dressé                                                                        | halbaufrecht                                           | semierecto                                                                | Jupiter, Lola, Saturn                                                  | 1             |
|                           | horizontal                                                  | horizontal                                                                         | waagerecht                                             | horizontal                                                                | Festival, Partytime,<br>Purple Rain                                    | 2             |
|                           | recurved                                                    | incurvé                                                                            | zurückgeschlagen                                       | recurvado                                                                 |                                                                        | 3             |
| <b>22.<br/>(*</b>         | <b>Corolla lobe: length</b>                                 | <b>Lobe de la corolle:<br/>longueur</b>                                            | <b>Kronzipfel: Länge</b>                               | <b>Lóbulo de la corola:<br/>longitud</b>                                  |                                                                        |               |
|                           | short                                                       | court                                                                              | kurz                                                   | corto                                                                     | Comet                                                                  | 3             |
|                           | medium                                                      | moyen                                                                              | mittel                                                 | medio                                                                     | Lina, Lola                                                             | 5             |
|                           | long                                                        | long                                                                               | lang                                                   | largo                                                                     |                                                                        | 7             |
| <b>23.<br/>(*</b>         | <b>Corolla lobe: width</b>                                  | <b>Lobe de la corolle:<br/>largeur</b>                                             | <b>Kronzipfel: Breite</b>                              | <b>Lóbulo de la corola:<br/>anchura</b>                                   |                                                                        |               |
|                           | narrow                                                      | étroit                                                                             | schmal                                                 | estrecho                                                                  |                                                                        | 3             |
|                           | medium                                                      | moyen                                                                              | mittel                                                 | medio                                                                     | Comet, Lina, Lola                                                      | 5             |
|                           | broad                                                       | large                                                                              | breit                                                  | ancho                                                                     |                                                                        | 7             |
| <b>24.<br/>(*</b>         | <b>Corolla lobe: shape</b>                                  | <b>Lobe de la corolle:<br/>forme</b>                                               | <b>Kronzipfel: Form</b>                                | <b>Lóbulo de la corola:<br/>forma</b>                                     |                                                                        |               |
|                           | ovate                                                       | ovale                                                                              | eiförmig                                               | oval                                                                      | Lina, Lola, Lore                                                       | 1             |
|                           | elliptic                                                    | elliptique                                                                         | elliptisch                                             | elíptico                                                                  |                                                                        | 2             |
|                           | obovate                                                     | obovale                                                                            | verkehrt eiförmig                                      | oboval                                                                    |                                                                        | 3             |
| <b>25.<br/>(*</b>         | <b>Corolla lobe:<br/>number of colors on<br/>upper side</b> | <b>Lobe de la corolle:<br/>nombre de couleurs<br/>sur la partie<br/>supérieure</b> | <b>Kronzipfel: Anzahl<br/>Farben der<br/>Oberseite</b> | <b>Lóbulo de la corola:<br/>número de colores<br/>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             |

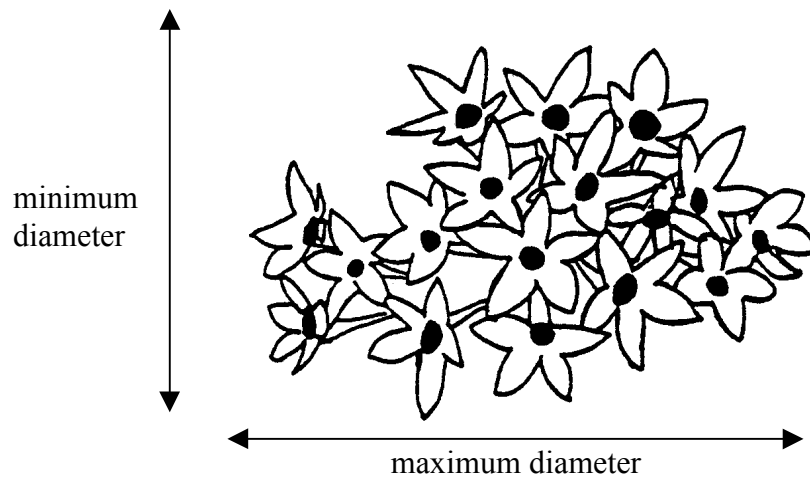
|                   | English                                                                                                       | français                                                                                                                         | deutsch                                                                                                  | español                                                                                                                  | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|-------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------|
| 26.<br>(*)<br>(+) | <b>Corolla lobe: main color on upper side</b>                                                                 | <b>Lobe de la corolle: principale couleur sur la face supérieure</b>                                                             | <b>Kronzipfel: Hauptfarbe der Oberseite</b>                                                              | <b>Lóbulo de la 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 (indíquese el número de referencia)                                                                 |                                                                        |               |
| 27.               | <b><u>Varieties with more than one color on upper side: corolla lobe: secondary color</u></b>                 | <b><u>Variétés ayant plus d'une couleur sur la face supérieure: lobe de la corolle: couleur secondaire</u></b>                   | <b><u>Sorten mit mehr als einer Farbe an der Oberseite: Kronzipfel: Sekundärfarbe</u></b>                | <b><u>Variedades con más de un color en la cara superior: lóbulo de la corola: color secundario</u></b>                  |                                                                        |               |
|                   | white                                                                                                         | blanche                                                                                                                          | weiß                                                                                                     | blanco                                                                                                                   |                                                                        | 1             |
|                   | pink                                                                                                          | rose                                                                                                                             | rosa                                                                                                     | rosa                                                                                                                     |                                                                        | 2             |
|                   | red                                                                                                           | rouge                                                                                                                            | rot                                                                                                      | rojo                                                                                                                     |                                                                        | 3             |
|                   | red purple                                                                                                    | rouge pourpre                                                                                                                    | rotpurpur                                                                                                | púrpura rojizo                                                                                                           |                                                                        | 4             |
|                   | blue purple                                                                                                   | bleu violacé                                                                                                                     | blaupurpur                                                                                               | púrpura azulado                                                                                                          | Romance                                                                | 5             |
| 28.<br>(*)        | <b><u>Varieties with more than one color on upper side: corolla lobe: distribution of secondary color</u></b> | <b><u>Variétés ayant plus d'une 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                                                                                                  | a lo largo del margen                                                                                                    | Romance                                                                | 2             |
|                   | splashed                                                                                                      | maculée                                                                                                                          | fleckig                                                                                                  | manchado                                                                                                                 |                                                                        | 3             |
|                   | eyed                                                                                                          | mouchetée                                                                                                                        | augenförmig                                                                                              | moteado                                                                                                                  |                                                                        | 4             |
|                   | median stripe                                                                                                 | strie médiane                                                                                                                    | Mittelstreifen                                                                                           | estría central                                                                                                           |                                                                        | 5             |
| 29.<br>(*)        | <b>Anthers: level in relation to top of limb</b>                                                              | <b>Anthères: position par rapport au sommet du limbe</b>                                                                         | <b>Antheren: Höhe im Verhältnis zum obersten Teil der Krone</b>                                          | <b>Anteras: nivel en relación con la parte superior de la corona</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             |

|                    | English                        | français                           | deutsch                            | español                               | Example Varieties<br>Exemples<br>Beispielssorten<br>Variedades ejemplo | Note/<br>Nota |
|--------------------|--------------------------------|------------------------------------|------------------------------------|---------------------------------------|------------------------------------------------------------------------|---------------|
| <b>30.</b>         | <b>Anther: color of pollen</b> | <b>Anthère: couleur du pollen</b>  | <b>Anthere: Farbe des Pollens</b>  | <b>Antera: color del polen</b>        |                                                                        |               |
|                    | whitish                        | blanchâtre                         | weißlich                           | blanquecino                           |                                                                        | 1             |
|                    | yellowish                      | jaunâtre                           | gelblich                           | amarillento                           | Jupiter, Mars, Mercur                                                  | 2             |
|                    | greyish                        | grisâtre                           | gräulich                           | grisáceo                              | Purple Rain                                                            | 3             |
| <b>31.<br/>(*)</b> | <b>Pistil: length of style</b> | <b>Pistil: longueur du style</b>   | <b>Stempel: Länge des Griffels</b> | <b>Pistilo: longitud del estilo</b>   |                                                                        |               |
|                    | short                          | court                              | kurz                               | corto                                 | Purple Rain                                                            | 3             |
|                    | medium                         | moyen                              | mittel                             | medio                                 | Lore, Venus                                                            | 5             |
|                    | long                           | long                               | lang                               | largo                                 | Jupiter, Saturn                                                        | 7             |
| <b>32.<br/>(*)</b> | <b>Stigma: size of lobes</b>   | <b>Stigmate: taille des lobes</b>  | <b>Narbe: Größe der Lappen</b>     | <b>Estigma: tamaño de los lóbulos</b> |                                                                        |               |
|                    | small                          | petits                             | klein                              | pequeños                              | Comet                                                                  | 3             |
|                    | medium                         | moyens                             | mittel                             | medios                                | Galaxy, Jupiter                                                        | 5             |
|                    | large                          | gros                               | groß                               | grandes                               |                                                                        | 7             |
| <b>33.<br/>(*)</b> | <b>Stigma: color of lobes</b>  | <b>Stigmate: couleur des lobes</b> | <b>Narbe: Farbe der Lappen</b>     | <b>Estigma: color de los lóbulos</b>  |                                                                        |               |
|                    | white                          | blancs                             | weiß                               | blanco                                | Romance                                                                | 1             |
|                    | yellow green                   | vert jaune                         | gelbgrün                           | verde amarillento                     | Galaxy, Purple Rain                                                    | 2             |
|                    | pink                           | roses                              | rosa                               | rosa                                  | Lilli, Lola                                                            | 3             |
|                    | red                            | rouges                             | rot                                | rojo                                  |                                                                        | 4             |
|                    | red purple                     | rouge pourpre                      | rotpurpur                          | púrpura rojizo                        | Lilo, Partytime                                                        | 5             |
|                    | blue purple                    | bleu pourpre                       | blaupurpur                         | púrpura azulado                       | Jupiter                                                                | 6             |
|                    | greyish                        | grisâtres                          | gräulich                           | grisaceo                              | Comet, Pluto                                                           | 7             |

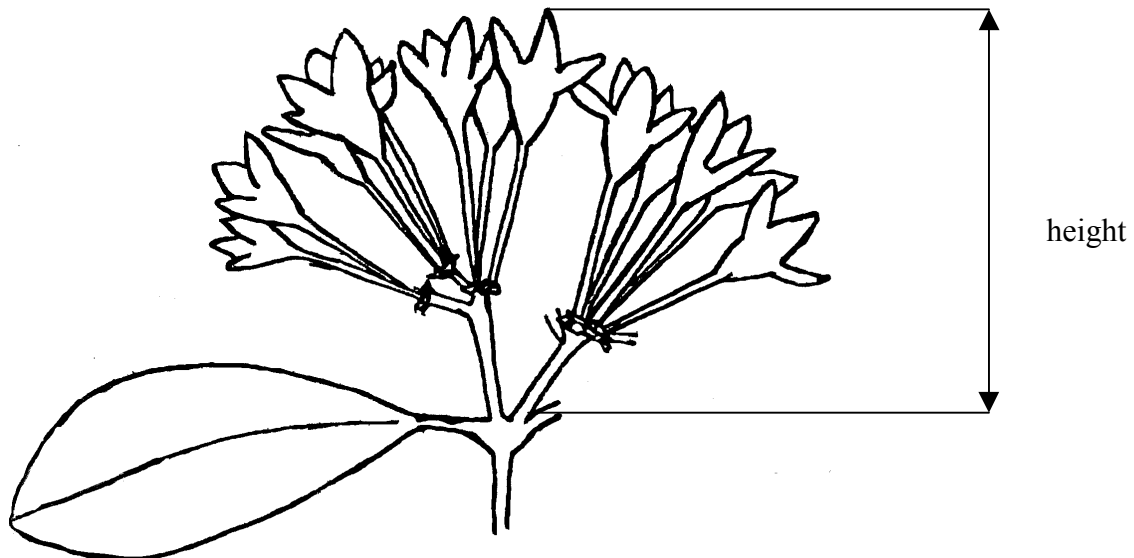
VIII. Explanations on the Table of Characteristics

Ad. 12: Inflorescence: maximum diameter

Ad. 13: Inflorescence: minimum diameter



Ad. 14: Inflorescence: height



Ad. 15: Inflorescence: shape of upper side

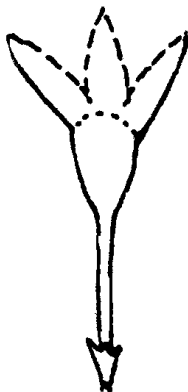


1  
flat

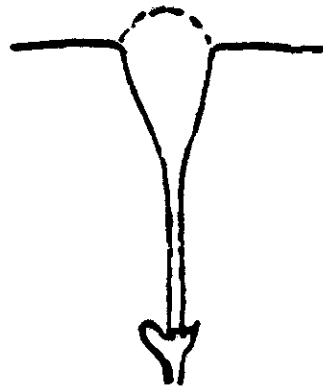


2  
rounded

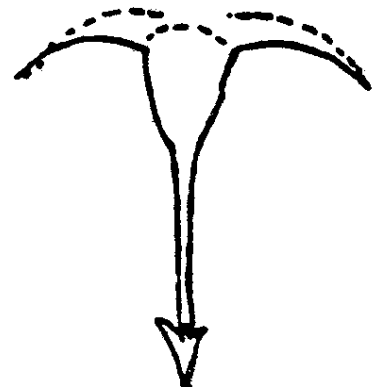
Ad. 21: Corolla lobe: attitude



1  
semi-erect



2  
horizontal



3  
recurved

Ad. 26: Corolla lobe: main color on upper side: 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* – Eine 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. Technical Questionnaire

|                                                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|                                                                                                                                                    | <b>Reference Number</b><br>(not to be filled in by the applicant) |
| <p style="text-align: center;"><b>TECHNICAL QUESTIONNAIRE</b><br/>to be completed in connection with an application for plant breeders' rights</p> |                                                                   |
| <p>1.    Species                      <i>Pentas</i> Benth.</p> <p style="text-align: center;">PENTAS</p>                                           |                                                                   |
| <p>2.    Applicant (Name and address)</p>                                                                                                          |                                                                   |
| <p>3.    Proposed denomination or breeder's reference</p>                                                                                          |                                                                   |

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 (26)</b>  |                   |      |
| RHS Colour Chart (indicate reference number)             | .....             |      |
| <b>5.1ii Corolla lobe: main color on upper side (26)</b> |                   |      |
| white                                                    | White In          | 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 |
|---------------------------------|------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
|---------------------------------|------------------------------------------------------------------------|----------------------------------------|------------------------------------------|

<sup>o)</sup> 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

7.1 Resistance to pest and diseases

7.2 Special conditions for the examination of the variety

Plant growth type:

- potplant [ ]
- cutflower [ ]

7.3 Other information

A representative color photo of the variety should 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]