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**TECHNICAL WORKING PARTY
FOR
ORNAMENTAL PLANTS AND FOREST TREES**

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WORKING PAPER ON TEST GUIDELINES FOR DENDROBIUM
(*Dendrobium Sw.*)

Document prepared by experts from Japan

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I. Subject of these Guidelines

These Test Guidelines apply to all vegetatively propagated varieties of sect. *Brachyanthe*, sect. *Callista*, sect. *Calyptochilus*, sect. *Ceratobium*, sect. *Dendrocoryne*, sect. *Eleutheroglossum*, sect. *Eugenanthe*, sect. *Latourea*, sect. *Oxygenianthe* sect. *Oxyglossum*, sect. *Pedilonum*, sect. *Phalaenanthe*, sect. *Stachyobium*, of *Dendrobium* Sw. of the family Orchidaceae and their hybrids.

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 plant material is recommended:

15 Plants, two to three years old, with at least two pseudobulbs each.

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

3. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

III. Conduct of Tests

1. A test should normally be conducted for one independent growing cycle. If distinctness and/or uniformity cannot be sufficiently established in one independent growing cycle, the test should be extended for a second growing cycle.

2. The tests 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.

3. The tests should be carried out in the greenhouse under conditions ensuring normal growth for the species concerned. 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 period. Each test should include a total of 10 plants. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

4. Additional tests for special purposes may be established.

IV. Methods and Observations

1. All observations determined by measurement, weighing or counting should be made on 10 plants or parts taken from each of 10 plants.

2. For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 plants, the maximum number of off-types allowed would be 1.
3. All observations on the pseudobulb should be made on the flowering pseudobulb.
4. All observations on the leaf should be made on the longest leaf of a flowering pseudobulb.
5. All observations on the inflorescence and the flower should be made at the time when 50% of the flowers on the inflorescence have opened, on the most recently fully opened flower on the inflorescence before fading of color.
6. All observations on the length and width of the flower and parts of the flower should be made on the unextended organ.
7. All observations on the color of the sepal, the petal and the lip should be made on the inner side.
8. All observations on the color of the column should be made on the outer side.
9. Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in 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. The grouping should in the first instance be made according to the species. In addition, 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: size (characteristic 1)
 - (b) Inflorescence: position of flowers (characteristic 18)
 - (c) Flower: length in front view (characteristic 27)
 - (d) Flower: width in front view (characteristic 28)
 - (e) Lip: lobing (characteristic 71)
 - (f) Lip: presence of eye (characteristic 77)
 - (g) Lip: color pattern (except middle part, eye and throat) (characteristic 80)
 - (h) Lip: predominant color (Technical Questionnaire, 5.8)

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. So far only few varieties exist; therefore mainly species and only few example varieties are indicated in the Table of Characteristics. All variety denominations are preceded by group names (GREX). The variety denominations are always placed in quotation marks. Denominations of further example varieties will be indicated as soon as more varieties become available.
4. Legend:
 - (*) Characteristics that should be used on all varieties in every growing period over which examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.
 - (+) See Explanations on the Table of Characteristics in Chapter VIII.

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

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. Plant: size					
(*)					
very small				Enobi Komachi 'Shirayu kihime'	1
small				<i>Dendrobium kingianum</i>	3
medium				Wave King 'Akebono'	5
large				Lucy Girl 'Emiko'	7
very large					9
2. Pseudobulb: attitude					
(*)					
erect					1
semi-erect					3
horizontal					5
semi-drooping					7
drooping					9
3. Pseudobulb: length					
(*)					
very short				Enobi Komachi 'Shirayu kihime'	1
short				<i>Dendrobium kingianum</i>	3
medium				Wave King 'Akebono'	5
long				Snow Cap 'Love Song'	7
very long					9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4. Pseudobulb: thickness (*)					
very thin					1
thin					3
medium					5
thick					7
very thick					9
5. Pseudobulb: shape (*)					
linear					1
lanceolate					2
ovate					3
6. Pseudobulb: shape in cross section					
elliptic					1
circular				Formidable	2
angular				<i>Dendrobium densiflorum</i>	3
7. Plant: number of leaves at time of full flowering (*)					
absent or very few				<i>Dendrobium aggregatum</i>	1
few				Enobi Parade 'Milky Way'	3
medium				Lucy Girl 'Emiko'	5
many					7
very many					9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
8. Plant: age of flowering pseudobulb (principally)					
one year				Formidable	1
two years or more					2
9. Leaf: length (*)					
short				Stardust 'Chiyomi'	3
medium				Wave King 'Akebono'	5
long					7
10. Leaf: width (*)					
narrow				Stardust 'Chiyomi'	3
medium				Wave King 'Akebono'	5
broad				Snow Cap 'Love Song'	7
11. Leaf: shape (*) (+)					
linear					1
elliptic					2
narrow ovate					3
narrow obovate					4
spatulate					5
12. Leaf: presence of variegation					
absent					1
present					9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. Leaf: type of variegation					
brindled					1
spotted					2
striped					3
centered					4
edged					5
14. Leaf: number of colors					
one					1
two					2
three or more					3
15. Leaf: pubescence					
absent					1
present				Formidible	9
16. Leaf: color of pubescence					
white					1
black				Formidible	2
17. Inflorescence: position of adherence					
bottom of pseudbulb					1
top of pseudbulb					2
18. Inflorescence: position of flowers					
along peduncle					1
apical					2

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. Inflorescence:					
(*) number of flowers					
few					3
medium					5
many					7
20. Peduncle: length					
(*)					
(+)					
short				Lucy Girl 'Emiko'	3
medium				Enobi Parade 'Milky Way'	5
long				Queen Southeast 'Crystal Queen'	7
21. Peduncle: thickness					
(*)					
thin					3
medium				Lucy Girl 'Emiko'	5
thick					7
22. Peduncle: attitude					
(*)					
erect					1
semi-erect					3
horizontal					5
semi-recurving					7
recurving					9
23. Pedicel: length					
(*)					
(+)					
short				Wave King 'Akebono'	3
medium				Snow Cap 'Love Song'	5
long					7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24. Pedicel: thickness					
(*)					
thin				Wave King 'Akebono'	3
medium					5
thick					7
25. Flower: general impression of petals and sepals					
(*)					
all incurving					1
some incurving, some spreading					2
all spreading					3
some spreading, some reflexing					4
all reflexing					5
some incurving, some reflexing					6
26. Flower: length of spur					
short				<i>Dendrobium kingianum</i>	3
medium				Formidable	5
long					7
27. Flower: length in front view					
(*)					
(+)					
short				Enobi Komachi 'Shirayu kihime'	3
medium				Lucy Girl 'Emiko'	5
long					7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28. Flower: width in front view					
(*)					
(+)					
narrow				Enobi Komachi 'Shirayu kihime'	3
medium				Lucy Girl 'Emiko'	5
broad					7
29. Flower: fragrance					
(*)					
absent or very weakly expressed					1
weak expressed				Snow Cap 'Love Song'	2
strongly expressed					3
30. Dorsal sepal: curvature of longitudinal axis					
(*)					
strongly incurving					1
moderately incurving					3
straight					5
moderately recurving					7
strongly recurving					9
31. Dorsal sepal: length					
(*)					
short				Enobi Parade 'Milky Way'	3
medium				Wave King 'Akebono'	5
long					7
32. Dorsal sepal: width					
(*)					
narrow				Enobi Parade 'Milky Way'	3
medium				Wave King 'Akebono'	5
broad					7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33. Dorsal sepal:					
(*) shape					
(+)					
linear					1
elliptic					2
lanceolate					3
ovate					4
broad ovate					5
broad obovate					6
34. Dorsal sepal:					
(*) shape in cross					
(+)					
strongly concave					1
moderately concave					2
flat					3
moderately convex					4
strongly convex					5
35. Dorsal sepal:					
(*) twisting					
absent or very weak					1
weak				Stardust 'Chiyomi'	3
medium					5
strong					7
very strong					9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
36. (*)					
Dorsal sepal: undulation of margin					
absent or very weak					1
weak					3
medium				Pink Beauty 'Queen'	5
strong					7
very strong					9
37. (*)					
Lateral sepal: curvature of longitudinal axis					
strongly incurving					1
moderately incurving					3
straight					5
moderately recurving					7
strongly recurving					9
38. (*)					
Lateral sepal: length					
short				Enobi Parade 'Milky Way'	3
medium				Wave King 'Akebono'	5
long					7
39. (*)					
Lateral sepal: width					
narrow				Enobi Parade 'Milky Way'	3
medium				Wave King 'Akebono'	5
broad					7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
40. Lateral sepal:					
(*) shape					
(+)					
linear					1
elliptic					2
lanceolate					3
ovate					4
broad ovate					5
broad obovate					6
41. Lateral sepal:					
(*) shape in cross					
(+)					
strongly concave					1
moderately concave					2
flat					3
moderately convex					4
strongly convex					5
42. Lateral sepal:					
(*) twisting					
absent or very weak					1
weak				Stardust 'Chiyomi'	3
medium					5
strong					7
very strong					9

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
43. Lateral sepal: undulation of margin (*)					
absent or very weak					1
weak				Wave King 'Akebono'	3
medium				Pink Beauty 'Queen'	5
strong					7
very strong					9
44. Sepal: number of colors (*)					
one					1
two					2
three					3
more than three					4
45. Sepal: color pattern (*)					
self-colored					1
shaded					2
edged					3
striped					4
netted					5
spotted					6
46. Sepal: ground color					
RHS Colour Chart (indicate reference number)					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
47.	<u>Shaded varieties</u> only: Sepal: extent of shading				
<hr/>					
	small				3
<hr/>					
	medium				5
<hr/>					
	large				7
<hr/>					
48.	<u>Shaded varieties</u> only: Sepal: color of shading				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					
49.	<u>Edged varieties</u> only: Sepal: color of edging				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					
50.	<u>Striped varieties</u> only: Sepal: color of stripes				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					
51.	<u>Netted varieties</u> only: Sepal: color of netting				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					
52.	<u>Spotted varieties</u> only: Sepal: color of spots				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
53. Petal: curvature of longitudinal axis					
(*)					
strongly incurving					1
moderately incurving					3
straight					5
moderately recurving					7
strongly recurving					9
54. Petal: length					
(*)					
short				Enobi Parade 'Milky Way'	3
medium				Wave King 'Akebono'	5
long					7
55. Petal: width					
(*)					
narrow				Enobi Parade 'Milky Way'	3
medium				Wave King 'Akebono'	5
broad					7
56. Petal: shape					
(*)					
(+)					
linear					1
elliptic					2
lanceolate					3
ovate					4
broad ovate					5
broad obovate					6

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
57. Petal: shape in cross section					
(*)					
(+)					
strongly concave					1
moderately concave					2
flat					3
moderately convex					4
strongly convex					5
58. Petal: twisting					
(*)					
absent or very weak					1
weak				Pink Beauty 'Queen'	3
medium					5
strong					7
very strong					9
59. Petal: undulation of margin					
(*)					
absent or very weak					1
weak				Stardust 'Chiyomi'	3
medium				Wave King 'Akebono'	5
strong				Pink Beauty 'Queen'	7
very strong					9
60. Petal: number of colors					
(*)					
one					1
two					2
three					3
more than three					4

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
61. Petal: ground color					
RHS Colour Chart (indicate reference number)					
62. Petal: color pattern (*)					
self-colored					1
shaded					2
edged					3
striped					4
netted					5
spotted					6
63. <u>Shaded varieties</u> only: Petal: extent of shading					
small					3
medium					5
large					7
64. <u>Shaded varieties</u> only: Petal: color of shading					
RHS Colour Chart (indicate reference number)					
65. <u>Edged varieties</u> only: Petal: color of edging					
RHS Colour Chart (indicate reference number)					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
66.	<u>Striped varieties</u> only: Petal: color of stripes				
<hr/>					
RHS Colour Chart (indicate reference number)					
<hr/>					
67.	<u>Netted varieties</u> only: Petal: color of netting				
<hr/>					
RHS Colour Chart (indicate reference number)					
<hr/>					
68.	<u>Spotted varieties</u> only: Petal: color of spots				
<hr/>					
RHS Colour Chart (indicate reference number)					
<hr/>					
69.	Lip: length				
(*)	<hr/>				
	short			Enobi Parade 'Milky Way'	3
	medium			Wave King 'Akebono'	5
	long				7
<hr/>					
70.	Lip: width				
(*)	<hr/>				
	narrow			Enobi Parade 'Milky Way'	3
	medium			Himezakura 'Fujikko'	5
	broad			Wave King 'Akebono'	7
<hr/>					
71.	Lip: lobing				
(*)	<hr/>				
	entire				1
	lobed				2
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
72.	<u>Varieties with</u>				
(*)	<u>entire lip only:</u>				
(+)	Lip: shape				
<hr/>					
	elliptic				1
<hr/>					
	transverse elliptic				2
<hr/>					
73.	<u>Varieties with</u>				
(*)	<u>entire lip only:</u>				
(+)	Lip: overlapping of basal part				
<hr/>					
	absent				1
<hr/>					
	present				9
<hr/>					
74.	<u>Varieties with</u>				
(*)	<u>lobed lip only:</u> Lip:				
(+)	shape of lateral lobes				
<hr/>					
	pointed				1
<hr/>					
	short truncate				2
<hr/>					
	medium truncate				3
<hr/>					
	long truncate				4
<hr/>					
75.	<u>Varieties with</u>				
(*)	<u>lobed lip only:</u> Lip:				
(+)	shape of apical lobe				
<hr/>					
	reniform				1
<hr/>					
	rhombic				2
<hr/>					
	transverse elliptic				3
<hr/>					
	elliptic				4
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
76. Lip: curving (* (+)					
wholly incurved					1
partly incurved, partly straight					2
flat					3
partly outcurved, partly straight					4
wholly outcurved					5
partly incurved, partly outcurved					6
77. Lip: presence of eye (* (+)					
absent					1
present					9
78. Lip: shape of eye (* (+)					
type I					1
type II					2
type III					3
type IV					4

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
79. Lip: number of colors (*)					
one					1
two					2
three					3
four					4
five					5
more than five					6
80. Lip: color pattern (except middle part, eye and throat) (*)					
self-colored					1
shaded					2
edged					3
striped					4
netted					5
spotted					6
81. <u>Shaded varieties only</u>: Lip: extent of shading					
small					3
medium					5
large					7
82. Lip: ground color					
RHS Colour Chart (indicate reference number)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
83. (+)	Lip: color of middle part					
	RHS Colour Chart (indicate reference number)					
84.	<u>Shaded varieties</u> only: Lip : color of shading					
	RHS Colour Chart (indicate reference number)					
85.	<u>Edged varieties</u> only: Lip: color of edging					
	RHS Colour Chart (indicate reference number)					
86.	<u>Striped varieties</u> only: Lip: color of stripes					
	RHS Colour Chart (indicate reference number)					
87.	<u>Netted varieties</u> only: Lip: color of netting					
	RHS Colour Chart (indicate reference number)					
88.	<u>Spotted varieties</u> only: Lip: color of spots					
	RHS Colour Chart (indicate reference number)					

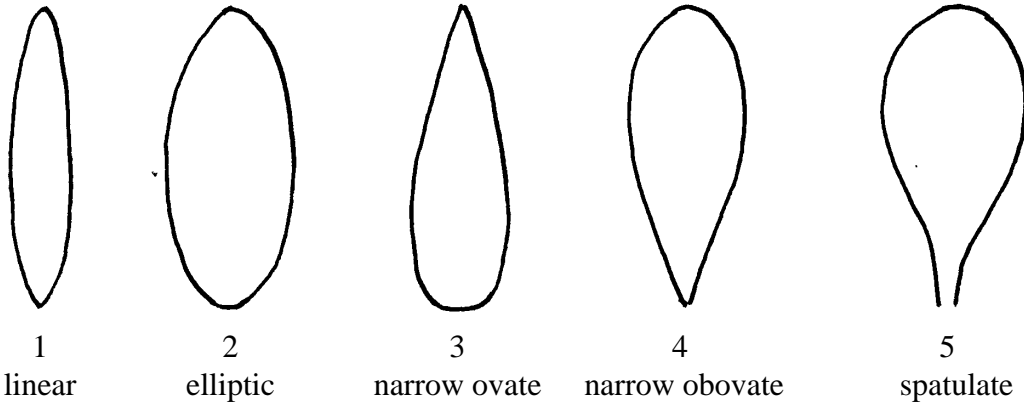
English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<hr/>					
89.	<u>Varieties with eye only: Lip: color of eye</u>				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					
90.	<u>Varieties with differently colored throat only: Lip: color of throat</u>				
<hr/>					
	RHS Colour Chart (indicate reference number)				
<hr/>					
91.	Lip: twisting				
(*)					
<hr/>					
	absent or very weak				1
<hr/>					
	weak				3
<hr/>					
	medium				5
<hr/>					
	strong				7
<hr/>					
	very strong				9
<hr/>					
92.	Lip: undulation of margin				
(*)					
<hr/>					
	absent or very weak			Enobi Parade 'Milky Way'	1
<hr/>					
	weak			Stardust 'Chiyomi'	3
<hr/>					
	medium			Wave King 'Akebono'	5
<hr/>					
	strong			Pink Beauty 'Queen'	7
<hr/>					
	very strong				9
<hr/>					

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
93. Lip: fringing of margin (*)					
absent or very fine					1
fine					3
medium					5
coarse					7
94. Lip: callus (*)					
absent					1
present					9
95. Lip: pubescence (*)					
absent or very weak					1
weak					3
medium					5
strong					7
very strong					9
96. Column: length (*)					
short					3
medium					5
long					7
97. Column: color of apex					
RHS Colour Chart (indicate reference number)					

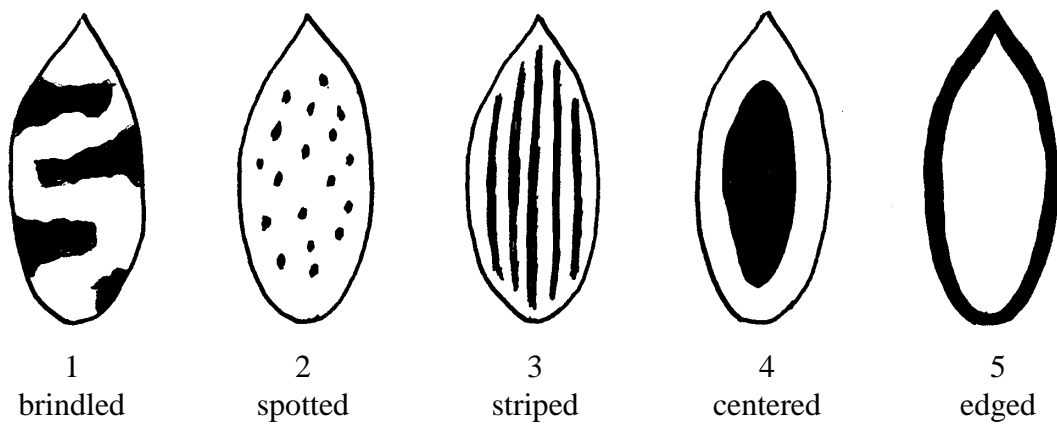
English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
98. Time of flowering (*)					
early winter					1
mid winter					2
spring					3
summer					4
autumn					5
perpetual				<i>Dendrobium Sophronites</i>	6

VIII. Explanation on the Table of Characteristics

Ad. 11: Leaf: shape

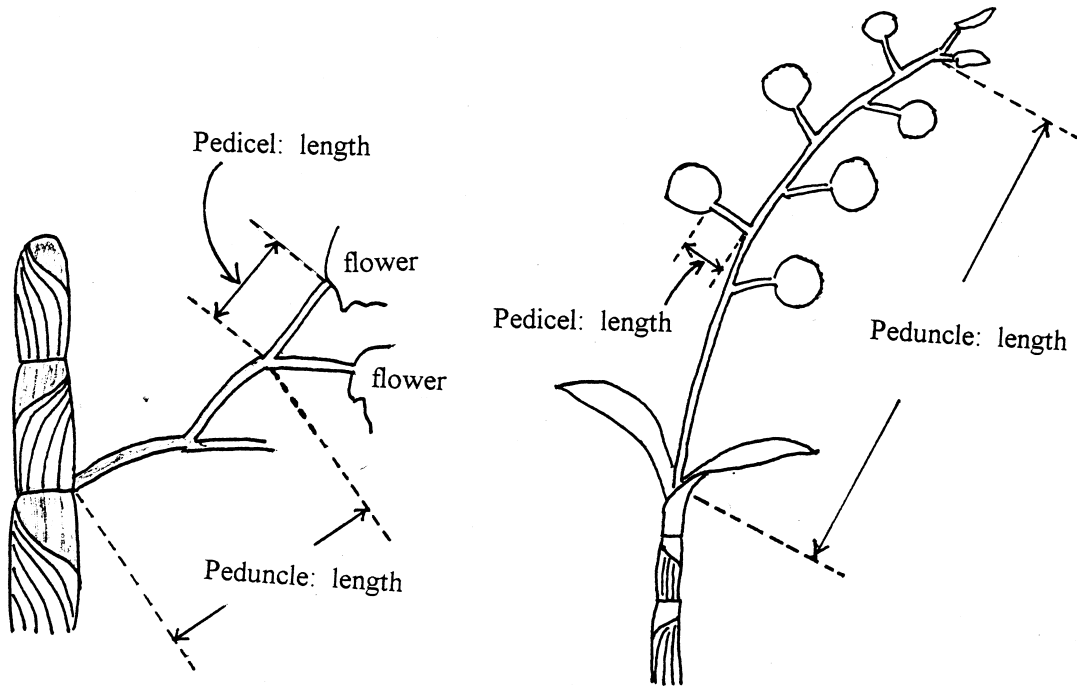


Ad. 13: Leaf: type of variegation



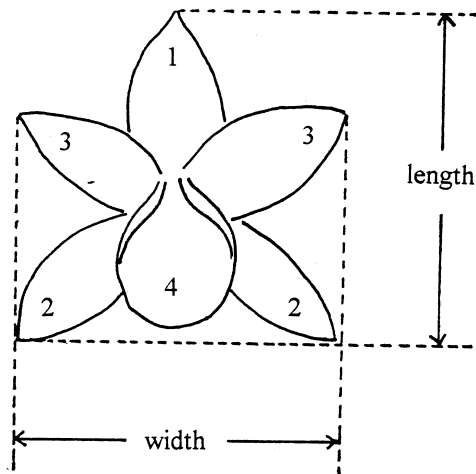
Ad. 20: Peduncle length

Ad. 23: Pedicel length



Ad. 27: Flower: length in front view

Ad. 28: Flower: width in front view

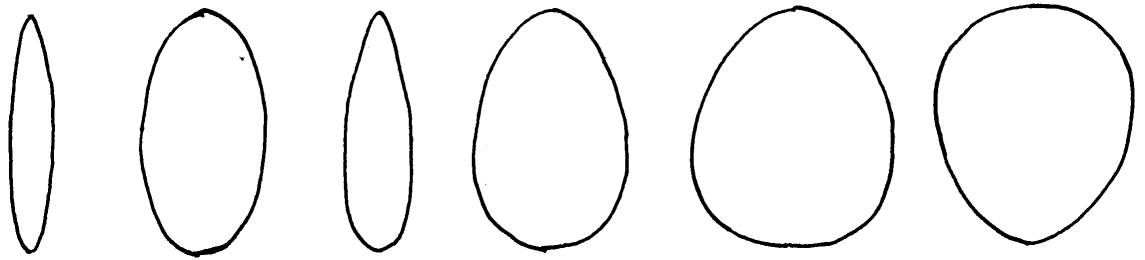


- 1: Dorsal sepal
- 2: Lateral sepal
- 3: Petal
- 4: Lip

Ad. 33: Dorsal sepal: shape

Ad. 40: Lateral sepal: shape

Ad. 56: Petal: shape



1
linear

2
elliptic

3
lanceolate

4
ovate

5
broad ovate

6
broad obovate

Ad. 34: Dorsal sepal: shape in cross section

Ad. 41: Lateral sepal: shape in cross section

Ad. 57: Petal: shape in cross section



inner side ^a

1
strongly
concave

2
moderately
concave

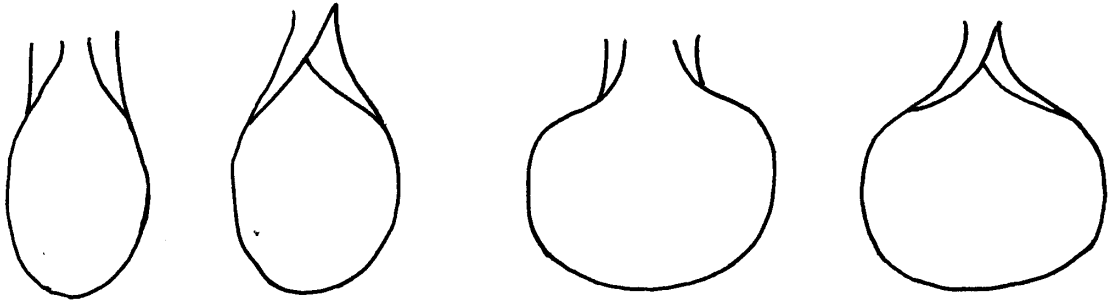
3
flat

4
moderately
convex

5
strongly
convex

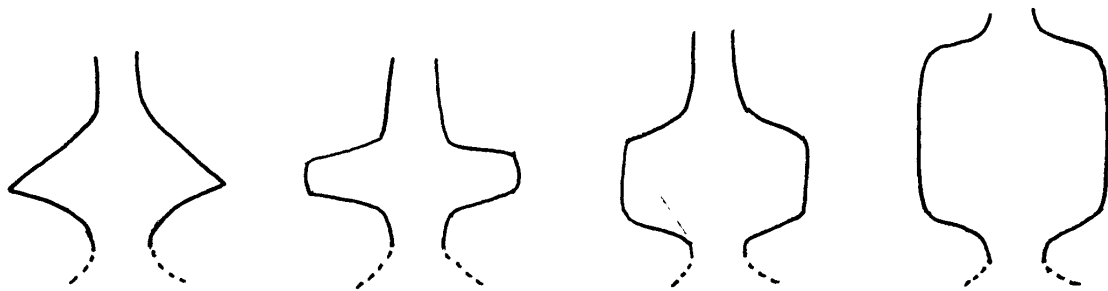
Ad. 72: Varieties with entire lip only: Lip: shape

Ad. 73: Varieties with entire lip only: Lip: overlapping of basal part



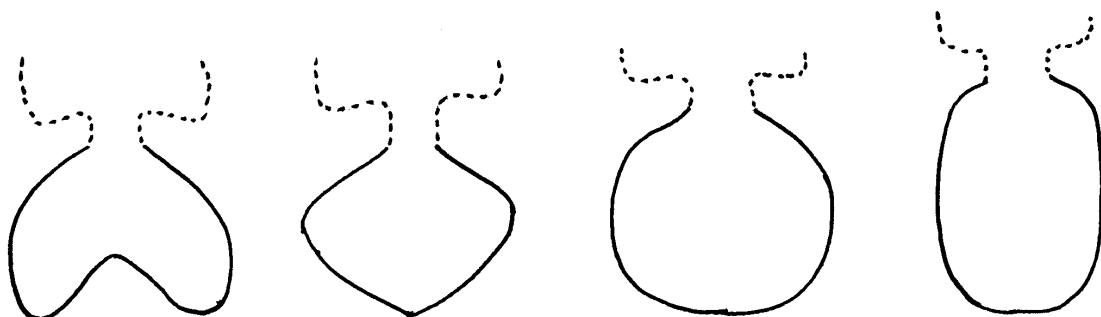
	shape: elliptic (1)		shape: transverse elliptic (2)
overlapping: absent	overlapping: present	overlapping: absent	overlapping: present
(1)	(9)	(1)	(9)

Ad. 74: Varieties with lobed lip only: Lip: shape of lateral lobes



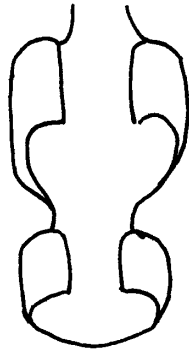
1	2	3	4
pointed	short truncate	medium truncate	long truncate

Ad. 75: Varieties with lobed lip only: Lip shape of apical lobe

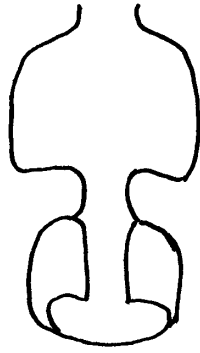


1	2	3	4
reniform	rhombic	transvers elliptic	elliptic

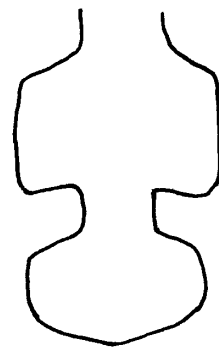
Ad. 76: Lip: curving



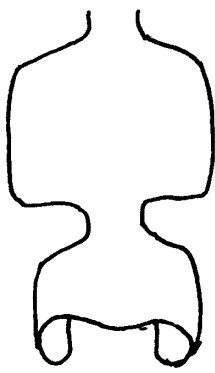
1
wholly incurved



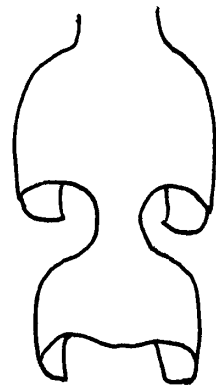
2
partly incurved, partly straight



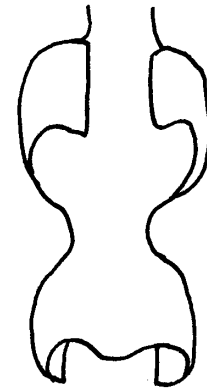
3
flat



4
partly outcurved, partly straight



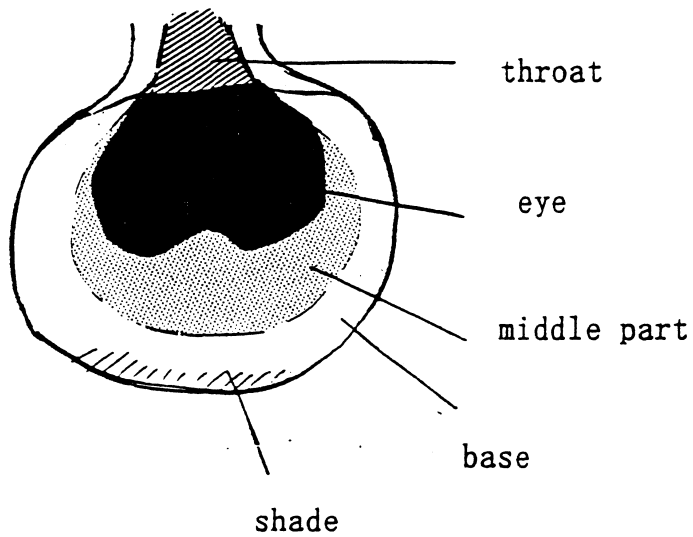
5
wholly outcurved



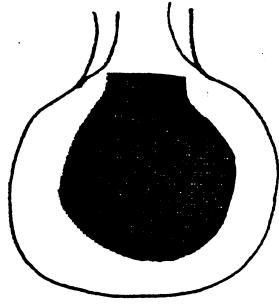
6
partly incurved, partly outcurved

Ad. 77: Lip: presence of eye

Ad. 83: Lip: color of middle part

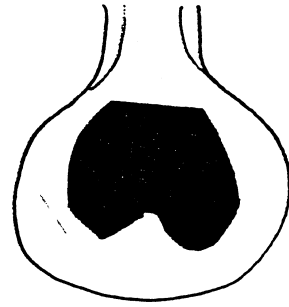


Ad. 78: Lip: shape of eye

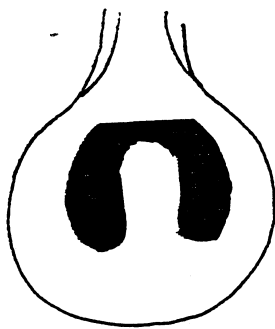


@ @ @

1
type I

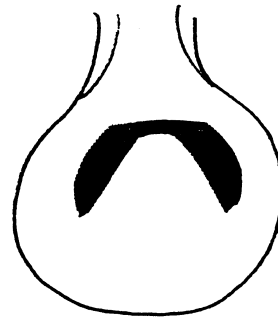


2
type II



@ @ @ @ @

3
type III



4
type IV

IX. Literature

Encyclopedia of Horticulture, Seibun-Do Shinkosha, Tokyo, Japan (in Japanese), (JP).

Karasawa, K., 1994: "Orchid Atlas", Vol. 4, Dendrobium, Orchid Atlas Publishing Society, c/o Yasaka Syobo, Inc., Tokyo, Japan, (JP).

X. Technical Questionnaire

	<p>Reference Number (not to be filled in by the applicant)</p>
<p style="text-align: center;">TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>	
<p>1.1 Genus</p>	<p style="text-align: center;"><i>Dendrobium Sw.</i> DENDROBIUM</p> <p>1.2 Species</p> <p style="text-align: center;">..... (indicate species)</p>
<p>2. Applicant (Name and address)</p>	
<p>3. Proposed denomination or breeder's reference</p>	

4. Information on origin, release, 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 []

– other (state method) []

.....

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
5.1 (1)	Plant: size		
	very small	Enobi Komachi 'Shirayuki hime'	1 []
	small	<i>Dendrobium kingianum</i>	3 []
	medium	Wave King 'Akebono'	5 []
	large	Lucy Girl 'Emiko'	7 []
	very large		9 []
5.2 (18)	Inflorescence: position of flowers		
	along peduncle		1 []
	apical		2 []
5.3 (27)	Flower: length in front view		
	short	Enobi Komachi 'Shirayu kihime'	3 []
	medium	Lucy Girl 'Emiko'	5 []
	long		7 []
5.4 (28)	Flower: width in front view		
	narrow	Enobi komachi 'Shirayu kihime'	3 []
	medium	Lucy Girl 'Emiko'	5 []
	broad		7 []
5.5 (71)	Lip: lobing		
	entire		1 []
	lobed		2 []

	Characteristics	Example Varieties	Note
5.6 (77)	Lip: presence of eye		
	absent		1 []
	present		9 []
5.7 (80)	Lip: color pattern (except middle part, eye and throat)		
	self-colored		1 []
	shaded		2 []
	edged		3 []
	striped		4 []
	netted		5 []
	spotted		6 []
5.8	Lip: predominant color		
	green		1 []
	white		2 []
	yellow		3 []
	pink		4 []
	red		5 []
	purple		6 []
	reddish brown		7 []
bicolor		8 []	

6. Similar varieties and differences from these varieties

Denomination of similar variety	Characteristic in which the similar variety is different ^{o)}	State of expression of similar variety	State of expression of candidate variety
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^{o)} 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 pests and diseases

7.2 Special conditions for the examination of the variety

(a) Conditions for planting (specify)

(b) Other conditions (specify)

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]