

Plant		Cymbidium		501	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Height of pseudobulb	5 plants	Measurement	mm (integer)		Height of normal pseudobulb at flowering time
2	Leaf length	5 plants	Measurement	cm (integer)		Maximum leaf length
3	Leaf width	5 plants	Measurement	mm (integer)		Maximum leaf width
4	Leaf number	5 plants	Measurement	leaves (integer)		Leaf number on normal pseudobulb at flowering time
5	Flower number per pseudobulb	5 flowers	Measurement	flowers (round to the 1st decimal place)		
6	Lateral length of flower	5 flowers	Measurement	mm (integer)		
7	Length of dorsal sepal	5 flowers	Measurement	mm (integer)		Longitudinal length of dorsal petal
8	Length of petal	5 flowers	Measurement	mm (integer)		Longitudinal length of petal
9	Length of lip	5 flowers	Measurement	mm (integer)		Longitudinal length of lip
10	Color of whole flower	5 flowers	Observation	1:White 2:Yellow 4:Red 5:Pink 6:Purple 7:Brown 8:Green 9:Multi-colored		

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1	Shape of plant	5 plants	Observation	2:Erect 5:Intermediate 8:Deflected		
2	Shape of pseudobulb(front view)	5 plants	Observation	5:Broad linear 6:Ovate 7:Elliptic 8:Orbicular		
3	Shape of cross section of pseudobulb	5 plants	Observation	8:Elliptic 9:Orbicular		
4	Diameter of pseudobulb	5 plants	Measurement	mm (integer)		
5	Shape of leaf	5 plants	Observation	2:Linear lanceolate 3:Broad linear 4:Linear 5:Oblanceolate 7:Spathulate		
6	Shape of leaf apex	5 plants	Observation	2:Acute 3:Unequal acute 5:Obtuse 6:Unequal obtuse 7:Emarginate 8:Unequal emarginate		
7	Shape of cross section of leaf	5 plants	Observation	3:Flat 5:Shallow V shape 7:Deep V shape		
8	Leaf serration	5 plants	Observation	0:Absent 8:Present		
9	Thickness of leaf	5 plants	Measurement	mm (round to the 1st decimal place)		
10	Leaf color	5 plants	Observation	3:Light green 5:Green 7:Dark green 9:Other		Surface color
11	Mottle on leaf	5 plants	Observation	3:Absent 5:Partially present 7:Present		
12	Coloration of sheath	5 plants	Observation	0:Absent 8:Present		
13	Color of sheath	5 plants	Observation			Indicate reference number of JHS color chart
14	Intlorescense	5 plants	Observation	5:Raceme 7:Panicle		
15	Length of flower stem	5 plants	Measurement	cm (integer)		
16	Thickness of flower stem	5 plants	Measurement	mm (round to the 1st decimal place)		

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17	Color of flower stem (upper)	5 plants	Observation			Indicate reference number of JHS color chart
18	Color of flower stem (middle)	5 plants	Observation			Indicate reference number of JHS color chart
19	Color of flower stem (lower)	5 plants	Observation			Indicate reference number of JHS color chart
20	Angle of flower stem	5 plants	Observation	1:Erect 3:Semi-erect 5:Horizontal 7:Deflected		
21	Type of flower	5 plants	Observation	2:Single 5:Semi-double 8:Double		
22	Type of flowering	5 plants	Observation	1:Folding 3:Semi-folding 5:Flat 7:Semi-reverse 9:Reverse		
23	Longitudinal length of flower	5 plants	Measurement	mm (integer)		
24	Shape of dorsal sepal	5 plants	Observation	2:Linear lanceolate 3:Broad linear 6:Oblong 7:Spathulate		
25	Shape of vertical section of dorsal sepal	5 plants	Observation	1:I 2:II 3:III 4:IV 5:V 6:VI 7:VII		
26	Shape of dorsal sepal apex	5 plants	Observation	3:Attenuate-acuminate 4:Acute 5:Mucronate 6:Truncate 7:Retuse		
27	Curvature of dorsal sepal margin	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
28	Undulation of dorsal sepal margin	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
29	Width of dorsal sepal	5 plants	Measurement	mm (integer)		

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30	Shape of leteral sepal	5 plants	Observation	2:Curved linear lanceolate 3:S-shape curved linear 5:Curved broad linear 7:Curved obvoid 8:Broad obvoid		
31	Shape of vertical section of lateral sepal	5 plants	Observation	1:I 2:II 3:III 4:IV 5:V 6:VI 7:VII		
32	Shape of lateral sepal apex	5 plants	Observation	3:Unequal attenuate acute 4:Unequal acute 5:Unequal mucronate 6:Unequal obtuse 7:Unequal emarginate		
33	Curvatune of leteral sepal	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
34	Undulation of lateral sepal	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
35	Length of lateral sepal	5 plants	Measurement	mm (integer)		
36	Width of lateral sepal	5 plants	Measurement	mm (integer)		
37	Shape of petal	5 plants	Observation	1:Linear 3:Broad linear 4:Narrow rectangle 5:Long rhomb 7:Obvoid 9:Wide sickle		
38	Shape of vertical section of petal	5 plants	Observation	1:I 2:II 3:III 4:IV 5:V 6:VI 7:VII		
39	Shape of petal apex	5 plants	Observation	3:Unequal acute 4:Unequal attenuate acute 5:Unequal mucronate 6:Unequal obtuse 7:Unequal emarginate		
40	Curvature of petal margin	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
41	Undulation of petal margin	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
42	Width of petal	5 plants	Measurement	mm (integer)		

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43	Vertical length of petal	5 plants	Measurement	mm (integer)		
44	Shape of lip	5 plants	Observation	1:Long spathulate 3:Narrow triangular 4:Triangular 5:Horseshoe-shaped 7:Orbicular 8:Elliptic		
45	Shape of vertical section of lip	5 plants	Observation	1:I 2:II 3:III 4:IV 5:V 6:VI 7:VII		
46	Spape of lip apex	5 plants	Observation	1:Attenuate acute 2:Acute 3:Mucronate 5:Obtuse 7:Retuse		
47	Fringe (incision) of lip apex	5 plants	Observation	0:Absent 8:Present		
48	Curvature of lip margin	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
49	Undulation of lip margin	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
50	Fringe (incision) of lip margin	5 plants	Observation	0:Absent 8:Present		
51	Hair on lip	5 plants	Observation	0:Absent 3:Weak 5:Intermediate 7:Strong		
52	Width of lip	5 plants	Measurement	mm (integer)		
53	Length of lip	5 plants	Measurement	mm (integer)		
54	Color distribution of inside of dorsal sepal	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
55	Ground color of inside of dorsal sepal	5 plants	Observation			Indicate reference number of JHS color chart
56	Color of multicolored	5 plants	Observation			Indicate reference number of JHS color chart

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57	Color distribution of outside of dorsal sepal	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
58	Ground color of outside of dorsal sepal	5 plants	Observation			Indicate reference number of JHS color chart
59	Color of outside of color-adjacent portion of dorsal sepal	5 plants	Observation			Indicate reference number of JHS color chart
60	Color distribution of inside of lateral sepal	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
61	Ground color of inside of lateral sepal	5 plants	Observation			Indicate reference number of JHS color chart
62	Color of inside of color-adjacent portion of lateral sepal	5 plants	Observation			Indicate reference number of JHS color chart
63	Color distribution of outside of lateral sepal	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
64	Ground color of outside of lateral sepal	5 plants	Observation			Indicate reference number of JHS color chart
65	Color of outside of color-adjacent portion of lateral sepal	5 plants	Observation			Indicate reference number of JHS color chart
66	Color distribution of inside of petal	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		

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67	Ground color of inside of petal	5 plants	Observation			Indicate reference number of JHS color chart
68	Color of inside of color-adjacent portion of petal	5 plants	Observation			Indicate reference number of JHS color chart
69	Color distribution of outside of petal	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
70	Ground color of outside of petal	5 plants	Observation			Indicate reference number of JHS color chart
71	Color of outside of color-adjacent portion of petal	5 plants	Observation			Indicate reference number of JHS color chart
72	Color distribution of inside of lip	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
73	Ground color of inside of lip	5 plants	Observation			Indicate reference number of JHS color chart
74	Color of inside of color-adjacent portion of lip	5 plants	Observation			Indicate reference number of JHS color chart
75	Color distribution of outside of lip	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other		
76	Ground color of outside of lip	5 plants	Observation			Indicate reference number of JHS color chart

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77	Color of outside of color-adjacent portion of lip	5 plants	Observation		Indicate reference number of JHS color chart
78	Color distribution of inside of column	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other	
79	Ground color of inside of column	5 plants	Observation		Indicate reference number of JHS color chart
80	Color of inside of color-adjacent portion of column	5 plants	Observation		Indicate reference number of JHS color chart
81	Color distribution of outside of column	5 plants	Observation	1:Uniform 2:Mottled tone 3:Soft 4:Marginal 5:Variegation 6:Wedgy 7:Linear 8:Meshed 9:Other	
82	Ground color of outside of column	5 plants	Observation		Indicate reference number of JHS color chart
83	Color of outside of color-adjacent portion of column	5 plants	Observation		Indicate reference number of JHS color chart
84	Color of pollen sac	5 plants	Observation		Indicate reference number of JHS color chart

Plant		Cymbidium		501	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Flowering time	5 plants	Observation			
2	Sprouting time of previous flowering pseudobulb	5 plants	Observation			
3	Number of sprouting pseudobulbs per previous pseudobulb	5 plants	Observation	sprouting pseudobulbs (integer)		Average
4	Time of flower bud formation	5 plants	Observation			

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Days from first to final flowering	5 plants	Observation	days (integer)		Days from first flowering date to final flowering date
2	Discontinuity of flower production	5 plants	Observation	1:Absent 3:Few 5:Intermediate 7:Many 9:Extremely many		
3	Tolerance to diseases	5 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		
4	Tolerance pest insects	5 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		
5	Tolerance to low temperature	5 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		
6	Tolerance to high temperature	5 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		
7	Degree of leaf scorch	5 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		

Plant	Cymbidium		501	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Longevity of flower	5 plants	Observation	3:Bad 5:Intermediate 7:Good	
2	Number of flowering stem per pseudobulb	5 plants	Measurement	flowering stems (integer)	Number of flowering stem per pseudobulb

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Hardiness of flower stalk	5 plants	Observation	3:Weak 5:Intermediate 7:Strong	
2	Fragrance of flower	5 plants	Sensory	0:Absent 3:Faint 5:Intermediate 7:Strong	