

# Species Datasheet

Datasheet No. A-061.034.010  
(family.genus.species)

DBT-1

## 1. Taxon:

**Species:** *Cleisostoma racemiferum* (Lindl.) Garay

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

[\*Aerides racemifera\* \(Lindl.\) Wall. ex Hook.f.](#)

[\*Cleisostomachrysomelas\* \(Rchb.f.\) Garay](#)

[\*Gastrochilus racemiferus\* \(Lindl.\) Kuntze](#)

[\*Saccolabium racemiferum\* Lindl.](#)

[\*Sarcanthus chrysomelas\* Rchb.f.](#)

[\*Sarcanthus lorifolius\* C.S.P. Parish ex Hook.f.](#)

[\*Sarcanthus manlinensis\* Guillaumin](#)

[\*Sarcanthus pallidus\* Lindl.](#)

[\*Sarcanthus racemifer\* \(Lindl.\) Rchb.f.](#)

[\*Sarcanthus tricolor\* Rchb.f.](#)

[\*Sarcanthus yunnanensis\* Schltr.](#)

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Cleisostoma* Blume
- Species: *Cleisostoma racemiferum* (Lindl.) Garay

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledonae  
Series: Microspermae  
Ordo: Orchideae  
Tribus: Vandeae  
Subtribus: Sarcantheae  
Genus: *Cleisostoma* Blume  
Species: *Cleisostoma racemiferum* (Lindl.) Garay

## 4. Distribution:

**Global:** India, Nepal, Sikkim, Bhutan, China, Myanmar, Thailand, Laos, Vietnam

**India:** Sikkim, Assam, Manipur, Meghalaya, Mizoram, Nagaland, West Bengal

**5. Indigenous/Exotic/Endemic; Cultivated/Wild:** Indigenous, wild

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Epiphyte,grows in high rainfall areas at 1300 m

**8.LifeForm:** Phanerophyte

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value      Methodology**

**12.Basic chromosome number(s):** $x=19^3, 5, 12, 15, 16, 19$

**13. Zygotic chromosome number(s):** $2n=38^3, 5, 12, 15$

**14. Gametic chromosome number(s):** $n=19^{15, 16, 18, 19}$

**15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):**

Image file

**16.Ploidy level:**Diploid<sup>3, 5, 12, 15, 16, 18,19</sup>

Image file

**17.Agametoploidy:**

**18.Nature of polyploidy (auto, segmental, allo, autoallo):**

**19.Genomic formula:**

**20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):**cytomixis occasionally observed which results in PMC's with  $n=15$  to  $20^{16, 18}$

**21.Somatic chromosomes:**

**Karyotype**

**Chromosome size**

**NOR chromosome(s)**

**Degree of asymmetry**

Image file

**22. Banding pattern(s):**

Image file

**23.Physical mapping of chromosomes:**

**In situ hybridization**

Image file

**Fluorescent in situ hybridization:**

Image file

**24.Genomic in situ hybridization:**

Image file

**25. Linkage map:**

Image file

**26.Chromosome associations:**

**Female meiosis**

**Male meiosis**<sup>19</sup><sup>16, 18, 19</sup>

Image file

**27.Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level**

Image file

**DNA level**

**29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis;**

**Pollen stainability;Translocationsetc.):**