

Datasheet No. A-061.013.085  
(family.genus.species)

DBT- Network Programme

**1.Taxon:**

Species: *Bulbophyllum sterile* (Lam.) Suresh

Subspecies:

Variety:

Cultivar

Hybrid

Image file

**2. Synonyms:** *Bulbophyllum caudatum* Lindl., *Bulbophyllum nilgherrense* Wight, *Epidendrum sterile* Lam., *Phyllorchis caudata* (Lindl.) Kuntze, *Phyllorkis caudata* (Lindl.) Kuntze, *Phyllorkis nilgherrensis* (Wight) Kuntze

**3.Systematic Position:**

**APG IV (2016)**

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobieae
- Genus: *Bulbophyllum* Thouars
- Species: *Bulbophyllum sterile* (Lam.) Suresh

**Bentham and Hooker(1862)**

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Dendrobieae

Genus: *Bulbophyllum* Thouars

Species: *Bulbophyllum sterile* (Lam.) Suresh

**4.Distribution:**

**Global:** Bangladesh, India, Nepal

**India:** Andhra Pradesh, Goa, Karnataka, Kerala, Maharashtra, Tamil Nadu

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:** Grows as an epiphyte at 1300-1700 m

**8.Lifeform:** Phanerophytes

**9.Economic Importance:**

**10. Probable Progenitor of:**

## 11.DNA

C-value      Methodology

12.Basic chromosome number(s): $x=19$ <sup>18, 19, 24</sup>

13. Zygotic chromosome number(s): $2n=38$ <sup>18</sup>

14. Gametic chromosome number(s): $n=19$ <sup>18, 19, 24</sup>

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

Image file

16.Ploidy level:Diploid<sup>18, 19, 24</sup>

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):Few PMCs with 20 IIs<sup>19, 24</sup>

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** 19 II<sup>19, 24</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; Translocation etc.):**