

Datasheet No. A-061.013.009
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Bulbophyllumbicolor* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Cirrhopetalumbicolor* (Lindl.) Rolfe, *Phyllorchisbicolor* (Lindl.) Kuntze, *Phyllorkisbicolor* (Lindl.) Kuntze

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobiinae
- Genus: *Bulbophyllum* Thouars
- Species: *Bulbophyllumbicolor* Lindl.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Dendrobieae

Genus: *Bulbophyllum* Thouars

Species: *Bulbophyllumbicolor* Lindl.

4.Distribution:

Global: China, Laos, Thailand, Vietnam, India

India: Eastern Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows as an epiphyte at 1400-1900 m

8.Life Form: Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{19, 24}$

13. Zygotic chromosome number(s): $2n=$

14. Gametic chromosome number(s): $n=20^{19, 24}$

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

Image file

16.Ploidy level: Diploid^{19, 24}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):Some PMCs with 19 IIs seen^{19, 24}

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 20 II, occasional PMC's with 19 II, in 50% of PMC's one bivalent either did not congress at the equator or lagged behind at A-I^{19, 24}

Image file

27.Chromosome distribution at anaphase I: A-I segregation irregular¹⁹

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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

Pollen stainability; Translocation etc.): Pollen stainability 50%¹⁹