

Species Datasheet

Datasheet No. A-061.048.014
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dendrobium bensoniae* Rchb.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Callistabensoniae* (Rchb.f.) Kuntze

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxidinae
- Subtribe: Dendrobiinae
- Genus: *Dendrobium* Sw.
- Species: *Dendrobium bensoniae* Rchb.f.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Dendrobieae

Genus: *Dendrobium* Sw.

Species: *Dendrobium bensoniae* Rchb.f.

4. Distribution:

Global: Myanmar, Thailand, India, 450-1550m

India: Manipur, Mizoram, Nagaland, Sikkim

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Hot to cool growing epiphyte

8. Life Form: Phanerophyte

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19$ ^{46,47, 56}

13. Zygotic chromosome number(s): $2n=38$ ^{47, 56}

14. Gametic chromosome number(s): $n=19$ ^{46, 47}

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

Image file

16.Ploidy level:Diploid^{47, 56}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:^{46, 47}

KaryotypeMedian, submedian^{46, 47}

Chromosome sizeSmall^{46, 47}

NOR chromosome(s)

Degree of asymmetrySymmetrical^{46, 47}

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 ^{19II^{46, 47}}

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apoixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):