Species Datasheet

Datasheet No. A-061.048.037 **DBT-** 1
(family.genus.species)

1.Taxon:

Species: *Dendrobiumnobile*Lindl.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Callistanobilis (Lindl.) Kuntze
Dendrobiumcoerulescens Wall. exLindl.
Dendrobiumformosanum (Rchb.f.) Masam.
*Dendrobiumlindleyanum*Griff.
Dendrobiumnobile var. *alboluteum*Huyen& Aver.
Dendrobiumnobile var. *formosanum*Rchb.f.
Dendrobiumnobile var. *nobilius*Rchb.f.
Dendrobiumnobile f. *nobilius* (Rchb.f.) M.Hiroe
Dendrobiumnobile var. *nobilus* Burb.

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 nobile* Lindl.

Bentham and Hooker(1862)
Kingdom: Plantae
Division: Phanerogamia
Class:Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Dendrobium* Sw.
Species: *Dendrobium nobile* Lindl.

4.Distribution:

Global: China, Himalayas, India, Bangladesh, Nepal, Bhutan Myanmar, Thailand, Laos, Vietnam

India: Assam, Manipur, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Cool to hot growing epiphyte or lithophyte

8.Life Form: Phanerophyte

9.Economic Importance: Cultivated ornamental, medicinal (Chinese herb), stem powder used as tonic in thirst and dryness of tongue

10. Probable Progenitor of:

11.DNA
C-value Methodology

12.Basic chromosome number(s):x=19[3, 9, 12, 14, 19, 24, 26, 46, 47, 54, 55] , 20[6, 25, 42]

13. Zygotic chromosome number(s):2n=38[3, 9, 12, 14, 19, 24, 26, 46, 47, 54, 55] ,
40[6, 25, 42] ,
57[18],
76[17]

14. Gametic chromosome number(s):n=19[47]

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

16.Ploidy level: Diploid[3, 6, 9, 12, 14, 19, 24, 25, 26, 42, 46, 47, 54, 55]
Triploid [18]
Tetraploid[17]
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:42, 46, 47

KaryotypeMedian, submedian[42, 46, 47]

Chromosome size Small[42, 46, 47]

NOR chromosome(s)4 [42]Sau, H. & A. K. Sharma. 1983

Degree of asymmetry Symmetrical[42, 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

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level5

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):