

Species Datasheet

Datasheet No. A-061.107.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vanda testacea* (Lindl.) Rchb.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aeridestestacea*Lindl.](#)

[*Aeridestestaceum*Lindl.](#)

[*Aerideswrightiana*Lindl.](#)

[*Aerideswrightiana*Lindl. ex Wall. \[Invalid\]](#)

[*Vandaparviflora*Lindl.](#)

[*Vandatestacea* var. *parviflora* \(Lindl.\) M.R.Almeida](#)

[*Vandavitellina*Kraenzl.](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Genus: *Vanda* R.Br.
- Species: *Vanda testacea* (Lindl.) Rchb.f.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Genus: *Vanda* R.Br.
Species: *Vanda testacea* (Lindl.) Rchb.f.

4. Distribution:

Global: Myanmar, Sri Lanka, India, China, Nepal and Bhutan at elevations of 780 to 2000 m

India: Himalayas from Garhwal to Assam and South India at lower elevations

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Small to medium sized epiphyte in Doon valley at 700m

8.Life Form:Herbaceous perennial

9.Economic Importance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{8,12, 13, 14, 20, 27, 32, 35}$

13. Zygotic chromosome number(s): $2n=38^{12, 20, 27, 32, 35}$

14. Gametic chromosome number(s): $n=19^{8, 12, 13, 14}$

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

Image file

16.Ploidy level:Diploid^{8,12, 13, 14, 20, 27, 32, 35}

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:²⁰

Karyotype Median, submedian²⁰

Chromosome size Small²⁰

NOR chromosome(s) 4²⁰

Degree of asymmetry Symmetrical²⁰

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^{8, 13, 14}

Image file

27. Chromosome distribution at anaphase I: Unequal distribution of chromosomes observed in few tetrads, dyads and triads also seen^{8, 13, 14}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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