

Datasheet No. A-061.003.009
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Aeridesodorata* Lour.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Aeridesballantianiana* Rchb.f., *Aeridescornuta* Roxb., *Aeridesdayana* Guillaumin, *Aeridesflavida* Lindl., *Aeridesjucunda* Rchb.f., *Aerideslatifolia* (Thunb. ex Sw.) Sw., *Aeridesmicholitzii* Rolfe [Invalid], *Aeridesnobilis* R. Warner, *Aeridesodorata* var. *annamensis* Costantin, *Aeridesodorata* var. *ballantianiana* (Rchb.f.) A.H.Kent, *Aeridesodorata* var. *birmanica* Rchb.f., *Aeridesodorata* var. *demidovii* Linden, *Aeridesodorata* var. *eburnean* Cogn., *Aeridesodorata* f. *immaculata* (Guillaumin) M. Wolff & O. Gruss, *Aeridesodorata* var. *major* Ortgies, *Aeridesodorata* var. *micholitzii* (Rolfe) Guillaumin, *Aeridesodorata* var. *pallida* Guillaumin, *Aeridesreichenbachii* Linden, *Aeridesreichenbachii* var. *cochinchinensis* Rchb.f., *Aeridesrohaniana* Rchb.f., *Aeridessuaveolens* Blume [Illegitimate], *Aeridessuaveolens* var. *virens* (Lindl.) Blume, *Aeridessuavissima* Lindl., *Aeridesvirens* Lindl., *Aeridesswilsoniana* auct., *Aeridiumodorum* Salisb. [Invalid], *Epidendrumaerides* Raesch., *Epidendrumodoratum* (Lour.) Poir., *Limodorumlatifolium* Thunb. ex Sw., *Orxeracornuta* (Roxb.) Raf., *Polytomaodorifera* Lour. ex B.A. Gomes

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Aerides* Lour.
- Species: *Aeridesodorata* Lour.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Vandeae
Subtribus: Sarcantheae
Genus: *Aerides* Lour.
Species: *Aeridesodorata* Lour.

4. Distribution:

Global: China (Yunnan, Guangdong), Himalayas, Bhutan, Bangladesh, India, Nepal, Myanmar, Thailand, Laos, Cambodia, Vietnam, Peninsular Malaysia, Borneo,

India: Widely distributed at the base of Himalayan, Andaman and Nicobar Islands

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

6. Threat Status:

IUCN: Endangered IUCN 3.1

BSI:

7. Habit and Habitat: Grows as an large epiphyte at 600-800 m

8.Life Form:Phanerphytes

9.Economic Importance:Ornamental,Medicinal ground fruit for healing wounds

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (7.57pg) ¹⁶ FeulgenMicrodensitometry¹⁶

12.Basic chromosome number(s): $x=19$ ^{1, 5, 6, 14, 21, 24, 25}

13. Zygotic chromosome number(s): $2n=38$ ^{1, 5, 6, 14, 21, 24, 25} , 76 ⁶

14. Gametic chromosome number(s): $n=19$ ^{14, 15, 18, 20}

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

Image file

16.Ploidy level:Diploid^{1, 5, 6, 14, 15, 18, 20, 21, 24, 25} , Tetraploid⁶

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

KaryotypeMedian, submedian²⁰

Chromosome sizeSmall²⁰

NOR chromosome(s)²⁰

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^{15, 18}

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.):