

Species Datasheet

Datasheet No. A-061.096.003
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Smithsoniaviridiflora* (Dalzell) C.J.Saldanha

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Aerides dalzelliana* (Santapau) Garay, *Gastrochilus dalzellianus* (Santapau) Santapau & Kopadia, *Gastrochilus viridiflorus* (Dalzell) Kuntze, *Micropera viridiflora* Dalzell, *Saccolabium viridiflorum* (Dalzell) Lindl., *Sarcochilus dalzellianus* Santapau, *Sarcochilus viridiflorus* (Dalzell) T.Cooke

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: *Smithsonia* C.J.Saldanha
- Species: *Smithsonia viridiflora* (Dalzell) C.J.Saldanha

4.Distribution:

Global: India

India: Goa, Karnataka, Kerala, Maharashtra

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

6. Threat Status:

IUCN:

BSI: Endemic

7. Habit and Habitat: Epiphytic herb, evergreen forests

8. Life Form: Phanerophytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=19^{1, 2, 3}$

13. Zygotic chromosome number(s): $2n=38^{1, 2, 3}$

14. Gametic chromosome number(s): $n=$

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

Image file

16. Ploidy level: Diploid^{1, 2, 3}

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:³

Karyotype Median, submedian³

Chromosome size Small to medium³

NOR chromosome(s) 4³

Degree of asymmetry Fairly asymmetrical³

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 level

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