

Species Datasheet

Datasheet No. A-061.096.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

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

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. **Synonyms:** *Gastrochilus maculatus* (Dalzell) Kuntze, *Loxoma maculatum* (Dalzell) Garay, *Loxomorchis maculata* (Dalzell) Rauschert, *Micropera maculata* Dalzell, *Saccolabium maculatum* (Dalzell) Hook.f., *Sarcochilus maculatus* (Dalzell) Pfitzer

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 maculata* (Dalzell) C.J.Saldanha

4.Distribution:

Global: India

India: Goa, Karnataka, Kerala, Maharashtra, Tamil Nadu

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

6.Threat Status:

IUCN:

BSI: Endemic

7. **Habit and Habitat:** Epiphytic herb, moist deciduous forests

8. **Life Form:** Herbaceous perennial

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C-value

Methodology

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

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

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

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

Image file

16. Ploidy level: Diploid^{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) 4

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 (Apoixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):