

Species Datasheet

Datasheet No. A-377.009.025
(family.genus.species)

DBT- No.

1. Taxon:

Species: *Barleria sepalosa*C.B.Clarke
Subspecies
Variety
Cultivar
Hybrid
Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

Kingdom: Plantae
Clade: Angiosperms
Clade: Eudicot
Clade: Asterids
Order: Lamiales Bromhead
Family: Acanthaceae Juss.
Genus: *Barleria* L.
Species: *B. sepalosa*C.B.Clarke

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Bicarpellatae
Cohors: Personales
Ordo: Acanthaceae Juss.
Genus: *Barleria*L.
Species: *B. sepalosa*C.B.Clarke

4. Distribution:

Global: India

India: Maharashtra.

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

6. Threat Status:

IUCN:Critically Endangered.

BSI:

7. Habit and Habitat: Shrub.Grows on exposed hill slopes.

8. Life Form: Chamaephytes

9. Economic Importance:Ornamental

10. Probable Progenitor of:

11. DNA

C-value Methodology

12 .Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=40¹²

14. Gametic chromosome number(s): n=20¹²

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytenechromosomes/ Neocentric Chromosomes etc):

Image file

16. Ploidy level:Diploid¹²

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:

Karyotype: Majority metacentric¹²

Chromosome size: 1.7µm to 4.1µm¹²

NOR chromosome(s)

Degree of asymmetry: Moderately symmetrical, 4B category of Stebbins's asymmetry classes¹²

22. Banding pattern(s):

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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: 20II¹²

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information: (Translocations; Inversion; Female meiosis; Male meiosis; Male sterility)