

Species Datasheet

Datasheet No. A-377.009.013
(family.genus.species)

DBT- No

1. Taxon:

Species: *Barleria lawii* T. Anderson

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Barleria beddomei* T. Anderson ex Bedd, *B. sepalosa* C.B. Clarke

3. Systematic Position:

APG IV (2016)

Kingdom: Plantae

Clade: Angiosperms

Clade: Eudicot

Clade: Asterids

Order: Lamiales

Family: Acanthaceae Juss.

Genus: *Barleria* L.

Species: *B. lawii* T. Anderson

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Dicotyledons

Subclass: Gamopetalae

Series: Bicarpellatae

Cohors: Personales

Ordo: Acanthaceae Juss.

Genus: *Barleria* L.

Species: *B. lawii* T. Anderson

4. Distribution:

Global: India

India: Western Ghats, Gujarat, Karnataka, Kerala, Madhya Pradesh and Maharashtra.

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Shrub. Grows on open hillslopes in sholas and dry and moist deciduous forests.

8. Life Form: Chamaephytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40$ ¹²

14. Gametic chromosome number(s): $n=20$ ¹²

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

Image file

16. Ploidy level:

Image file

17. Agamaploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype –Majority metacentric¹², one pair show secondary constriction¹²

Chromosome size–1.38 μ to 2.38 μ ¹²

NOR chromosome(s)

Degree of asymmetry: Moderately symmetrical, in 4b category of Stebbins¹²

Image

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: 20II. Normal¹²

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information: