

Species Datasheet

Datasheet No. A-377.017.001
(family.genus.species)

DBT- Network Pr

1.Taxon:

Species: *Ecbolium ligustrinum* (Vahl) Vollesen

Subspecies

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Ecbolium* *ecbolium* (L.) Voss, *E.linneanum* Kurz, *E.linneanum* var. *dentatum* (Klein ex Link) C.B.Clarke, *E.linneanum* var. *laetevirens* (Vahl) C.B.Clarke, *E.viride* var. *dentatum* (Klein ex Link) Santapau, *E.viride* var. *laetevirens* (Vahl) Santapau, *E.viride* subsp. *ligustrinum* (Vahl) M.R.Almeida, *E. ligustrinum* var. *ligustrinum*, *Eranthemum* *ecbolium* T.Anderson, *Justicia* *ecbolium* L., *J.ligustrina* Vahl,

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Ecbolium* Kurz
- Species: *E.ligustrinum* (Vahl) Vollesen

Bentham and Hooker(1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Ecbolium* Kurz
- Species: *E.ligustrinum* (Vahl) Vollesen

4.Distribution:

Global: India, Sri Lanka, Malaysia

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Herb/ Shrub.

8.Life Form: Chamaephytes

9.Economic Importance:

10. Probable Progenitor of: Not found.

11.DNA

C-value Methodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=36^{1, 2}$, $2n=40^3$, $2n=44^4$

14. Gametic chromosome number(s): $n=18^{2, 5}$

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

Image file

16.Ploidy level:

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 metacentric / sub metacentric³

Chromosome size – 0.8 μm to 2 μm³

NOR chromosome(s)

Degree of asymmetry: Symmetrical³

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes: GISH.

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

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)