

Species Datasheet

Datasheet No. A-030.003.001
(family.genus.species)

DBT- Ne

1.Taxon:

Species: *Limnophyton obtusifolium* (L.) Miq
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Alisma kotschy* Hochst., *A. obtusifolium* (L.) Thwaites; *A. sagittifolium* Willd.; *A. sagittifolium* Thwaites, *Caldesia sagittarioides* Ostenf., *Dipseudochorion sagittifolium* (Willd.) Buchenau; *D. sagittifolium* Buch., *Limnophyton parvifolium* Peter, *Sagittaria nymphaeifolia* Hochst., *S. obtusifolia* L.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Alismataceae Vent.
- Genus: *Limnophyton* Miq.
- Species: *L. obtusifolium* (L.) Miq

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Apocarpae
Ordo: Alismaceae
Genus: *Limnophyton* Miq.
Species: *L. obtusifolium* (L.) Miq

4. Distribution:

Global: Widespread in tropical Africa; also in Madagascar, India, Ceylon and Malay Islands

India: Peninsular to North & East India

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Aquatic herb; Tropical Moist Forest, grows at the margin of ponds, in mud, Swamps and pools, in standing or flowing water

8. Life Form: Hemicryptophytes

9. Economic Importance: Aqueous extract possesses anti-ulcer activity.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): x=

13. Zygotic chromosome number(s): $2n=22^{1,3,4,5,6,7}$, $2n=24^{2,7,8}$

14. Gametic chromosome number(s): $n=11^{1,3}$ $n=12^8$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):

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 sub-metacentric to sub-telocentric chromosomes¹ ; majority sub-telocentric chromosomes³

Chromosome size: Medium to long¹

NOR chromosome(s): 2 NOR^{1,7} ; 4NOR⁷

Degree of asymmetry: asymmetric¹

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: 11 II¹

Image file

27.Chromosome distribution at anaphase I: Lagging and sticky bridges¹

28. Genetic diversity:

Chromosomal level¹

Image file

DNA level

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