

Species Datasheet

Datasheet No. A-030.004.001
(family.genus.species)

DBT- Ne

1. Taxon:

Species: *Sagittaria guayanensis* Kunth
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Alisma ancile* Mantell ex Steud., *A. echinocarpum* (Mart.) Seub., *A. pubescens* Buch.-Ham. ex Wall., *A. stellatum* Buch.-Ham. ex Wall., *A. stellatum* Buchanan-Hamilton ex Wallich, *Echinodorus guayanensis* (Kunth) Griseb., *E. guianensis* (Kunth) Griseb., *Lophiocarpus guayanensis* (Kunth) Micheli, *L. seubertianus* (Mart. ex Seub.) Micheli, *Lophotocarpus guayanensis* (Kunth) J. G. Sm., *L. guayanensis* (Kunth) T.Durand & Schinz, *L. guayanensis* (Kunth) Griseb., *L. guayanensis* var. *echinocarpus* (Mart.) Buchenau, *L. seubertianus* (Mart. ex Seub.) Buchenau; *Sagittaria bracteata* Willd. ex Seub.; *S. echinocarpa* Mart.; *S. guayanensis* subsp. *guayanensis*; *S. guianensis* Schltdl., *S. guyanensis* Kunth, *S. parviflora* Wall. ex Micheli; *S. seubertiana* Mart. ex Seub.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Alismataceae Vent.
- Genus: *Sagittaria* L.
- Species: *S. guayanensis* Kunth

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Apocarpae
Ordo: Alismaceae
Genus: *Sagittaria* L.
Species: *S. guayanensis* Kunth

4. Distribution:

Global: Many countries of tropical Africa, Southeast Asia, central and South America

India: Assam and East Himalaya

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Aquatic herb; Grows in shallow water and margin of pools, Tropical Moist Forest

8. Life Form: Hydrophytes

9. Economic Importance: Medicinal plant

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=11^1$

13. Zygotic chromosome number(s): $2n=22^{1,2,3,4,5,26,71}$

14. Gametic chromosome number(s): $n=11^{1,5,26,71}$

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 nearly telocentric chromosomes¹

Chromosome size: small to medium¹

NOR chromosome(s)

Degree of asymmetry

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: II's showed stickyness¹

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis ; Inversion; Male sterility; Pollen grain mitosis;

Pollen stainability; Translocations etc): Pollen stainability- 98%¹