

Species Datasheet

Datasheet No. A-034.001.005
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Aponogeton natans* (L.) Engl. & K.Krause

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Aponogeton flavidum* Ham. ex Hook.f., *A. lineare* Vahl, *A. lucens* Hook.f., *A. monostachyon* L.f., *A. monostachys* Edgew., *Potamogeton indicus* Roth ex Roem. & Schult., *Saururus natans* L., *Spathium monostachyum* (L.f.) Edgew.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R.Br.
- Family: Aponogetonaceae Planch.
- Genus: *Aponogeton* L.f.
- Species: *A. natans* (L.) Engl. & K.Krause

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledones

Series: Apocarpae

Ordo: Najadaceae Juss.

Tribus: Aponogetoneae Benth. & Hook. f.

Genus: *Aponogeton* L.f.

Species: *A. natans* (L.) Engl. & K.Krause

4. Distribution:

Global: Bangladesh, India, Nepal, Shri Lanka, Indo-China.

India: Throughout country

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Perennial aquatic herb with floating leaves. Grows in fresh water shallow ponds and lakes.

8. Life Form: Tuberous geophyte

9. Economic Importance: Tubers edible.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=24^7$

$$2n=50^8$$

$$2n=52^8$$

$$2n=76^{9,10}$$

$$2n=78^{8,11}$$

$$2n=80^{2,4}$$

$$2n=92^{8,12}$$

14. Gametic chromosome number(s): $n=25^8$

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

Image file

16. Ploidy level: Polyploid⁹

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 chromosomes⁹

Chromosome size very small to small⁹

NOR chromosome(s) 8NOR⁹

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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