

Species Datasheet

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Datasheet No. P-016.001.003
- **(family.genus.species)**

DBT- Network Programme

1.Taxon:

Species: *Azolla mexicana* C.Presl

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:Nil

3.Systematic Position: Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Salviniales Bartl. in Mart
- Family: Salviniaceae Martinov
- Subfamily:
- Genus: *Azolla* Lam.
- Species: *Azolla mexicana* C.Presl.
- Subspecies:

4.Distribution:

Global: United States, Mexico, Columbia

India:

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Floating aquatic with blue-green to dark red leaves.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=22^{10, 11}, 24^{4, 8}$

13. Zygotic chromosome number(s): $2n=44^{10, 11}, 48^{4, 8}$

14. Gametic chromosome number(s): $n=24^4$

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

Image file

16.Ploidy level: Tetraploid (sexual)¹⁰

Tetraploid (aneuploid)^{8, 10}

Image file

17.Agametoploidy:

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

19.Genomic formula:

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

21. Somatic chromosomes:⁴

Karyotype Ratio of longest to shortest 1.90⁴

Chromosome size very small⁴

NOR chromosome(s)

Degree of asymmetry asymmetrical⁴

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 24II^4

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; Translocation etc.):