Species Datasheet

Datasheet No. P-016.001.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Azolla filiculoides* Lam.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Azollaarbuscula*Desv.
*Azollamagellanica*Willd.
Azollasquamosa Molina

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 filiculoides* Lam.
- Subspecies:

4.Distribution:

Global:native to warm temperate and tropical regions of theAmericas as well as most of the old world including Asia and Australia.

India:

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

6.Threat Status:

IUCN: Secure

BSI:

7.Habit and Habitat: It is a floating aquatic fern, with very fast growth, capable of spreading over lake surfaces to give complete coverage of the water in only a few months. Each individual plant is 1–2 cm across, green tinged pink, orange or red at the edges, branching freely, and breaking into smaller sections as it grows. It is not tolerant of cold temperatures,

8.Life Form:

9.Economic Importance: nitrogen-fixing ability

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=$20^{4, 8}$, $22^{10,11}$

13. Zygotic chromosome number(s):2n=$40^{4, 8}$, $44^{10, 11}$, $66^{10, 11}$

14. Gametic chromosome number(s):n=20^{4} ,22^{1}

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

Image file

16.Ploidy level: Diploid (aneuploid)[4] ,

Diploid (sexual)[4, 10, 11] ,

Triploid[10, 11]

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:[4]

Karyotype ratio of longest to shortest 2.0[4]

Chromosome size Very small[4]

NOR chromosome(s)

Degree of asymmetry Asymmetrical[4]

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$20II^4$

$22II^1$

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;Translocationsetc.):