Species Datasheet

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Datasheet No. P-051.026.003
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Microsorum pteropus* (Blume) Copel.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position:
Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Polypodiaceae J. Presl& C. Presl
- Subfamily: Microsoroideae B.K. Nayar
- Genus: *Microsorum* Link
- Species: *Microsorum pteropus* (Blume) Copel.
- Subspecies:
- Variety:

4.Distribution:

Global: Bangladesh; Cambodia; China (Guangdong, Guangxi, Guizhou, Yunnan); Hong Kong; India; Indonesia; Japan; Lao People's Democratic Republic; Malaysia; Myanmar (Myanmar (mainland)); Nepal; Papua New Guinea (Papua New Guinea (main island group)); Philippines; Taiwan, Province of China (Taiwan, Province of China (main island)); Thailand; Viet Nam

India: Andaman Is., Arunachal Pradesh, Assam, Kerala, Meghalaya, Nicobar Is., Sikkim, Tamil Nadu

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: The species grows in the flood zone of shaded streams or on wet rocks, usually in the spray zone, in stream beds in dense forests in situations where the whole plant is immersed during high flows, 0-800 m alt., usually in spraying water, not so rare throughout the country. It is dependent upon clean water and intolerant of pollution.

8.Life Form:

9.Economic Importance: The species is found in the aquarium trade, however the source of material is not known.

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=36[1, 7, 10, 11, 12, 16, 20, 24]

13. Zygotic chromosome number(s):2n=72[10, 11, 12] ,

108 [10, 11, 12]

14. Gametic chromosome number(s):n=36[1, 7, 10, 11, 12, 16, 20, 24] ,

72 [13, 32, 33]

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

chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel: Diploid (sexual)[1, 7, 10, 11, 12, 16, 20, 24] ,

Triploid (sterile hybrid)[10, 11, 12],

Tetraploid (sexual) [13, 32, 33],

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

Chromosome size

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 Diploid: 36II[7, 10, 11, 12, 16] ,

Triploid: Irregular meiosis[10, 11, 12]

Tetraploid: 72II[32, 33]

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.):