

Datasheet No. P-002.002
(Family: Genus)

1. Genus: *Isoetes* L.

2. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Succlass: Lycopodiidae Bek.
- Order: Isoetales Prantl
- Family: Isoetaceae Reichenb.
- Subfamily:
- Genus: *Isoetes* L.

3. Species:

Global: Accepted (84), Unassessed (75)

India:

4. Taxonomic riddles: ^{8, 9}

5. Distribution:

Global:

India:

6. Habit and Habitat:

7. Economic Importance:

8. DNA content range:

Methodology

9. Basic chromosome number(s): $x=11^{2, 5, 6, 11, 12, 13, 14, 15, 16, 17, 18}$

10. Zygotic chromosome number(s): $2n=22^{12, 13, 15},$

$22+1f^{15, 18},$

$22+2f^5,$

$24^6,$

$33^6,$

$33+1f^2,$

$33+1-3f^{5, 7},$

$33+1f^{14, 17},$

$36^{3, 5, 6, 7},$

$36+3f^5,$

$39^{3, 6},$

$44^{2, 5},$

$44+1f^{2, 11, 13, 16, 18},$

$44+1-2f^5,$

$44+3f^5,$

$45f^5.$

$55+1^{18}$,

$66^{1, 10}$,

$66+1f^3$

11. Gametic chromosome number(s): $n=11^{12, 13, 15}$,

$55+1f^{4, 19, 20}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):

13. Ploidy level: Diploid (sexual) $^{12, 13, 15, 18}$,

Diploid 5 ,

Triploid $^{2, 5, 6, 14, 17}$,

Triploid (aneuploid) $^{3, 5, 6, 7}$,

Tetraploid $^{2, 5, 11, 13, 16, 18}$,

Tetraploid (aneuploid) $^{3, 5, 6}$,

Pentaploid (sterile) $^{2, 18}$,

Hexaploid $^{1, 3, 10}$,

Decaploid (sexual) $^{4, 19, 20}$

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

16. Karyograms: 1, 10

Meiosis: 4, 5, 11, 12, 13, 15, 19, 20

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: 8, 9

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: