

Final Species Datasheet

Datasheet No. G-006.001.005 DBT- Network Programme
(Family.genus.species)

1. Taxon:

Species: *Ephedra intermedia* Schrenk & C.A. Mey.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Ephedra ferganensis* V.A. Nikitin, *Ephedra intermedia* var. *persica* Stapf, *Ephedra intermedia* var. *schrenkii* Stapf, *Ephedra intermedia* var. *tibetica* Stapf, *Ephedra microsperma* V.A. Nikitin, *Ephedra persica* (Stapf) V.A. Nikitin, *Ephedra tesquorum* V.A. Nikitin, *Ephedra tibetica* (Stapf) V.A. Nikitin, *Ephedra valida* V.A. Nikitin, *Ephedra vulgaris* var. *submonostachys* Boiss. & Buhse

3. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Ephedrales Dumort.
- Family: Ephedraceae Dumort.
- Genus: *Ephedra* L.
- Species: *E. intermedia* Schrenk & C.A. Mey.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Gnetaceae Blume

Genus: *Ephedra* L.

Species: *E. intermedia* Schrenk & C.A. Mey.

4. Distribution:

Global: Afghanistan, China, Russia, and Southern Siberia to Iran

India: Himachal Pradesh, Jammu & Kashmir, Uttar Pradesh and Uttarakhand

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

6. Threat Status:

IUCN: Least concern

BSI:

7. Habit and Habitat: Shrub, Grows on rocky soil, fairly common.

8.Life Form:Phanerophytes

9.Economic Importance: Stem contains ephedrine

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s): $x=7$ _{1, 2,12, 13}

13. Zygotic chromosome number(s): $2n=14$ _{1, 2,28 12,13}

14. Gametic chromosome number(s): $n=14$ (pollen mitosis)_{12, 13}

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

Image file

16.Ploidy level:Diploid_{1, 2}, Tetraploid_{12,13}

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:_{1, 2,12,13}

Karyotype Diploid: Median and subterminal_{1, 2,12,13}

Chromosome sizeLarge_{1, 2,12,13}

NOR chromosome(s)₂ (pollen mitosis)_{12,13}

Degree of asymmetryAsymmetrical_{1, 2,12,13}

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 4, 8, 9

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