

Final Species Datasheet

(Family.genus.species)

Datasheet No. G-006.001.006

DBT- Network Programme

1.Taxon:

Species: *Ephedra likiangensis* Florin

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Ephedra likiangensis* f. *likiangensis*

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. likiangensis* Florin

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Gnetaceae Blume

Genus: *Ephedra* L.

Species: *E. likiangensis* Florin

4.Distribution:

Global: Guizhou, Sichuan, and Yunnan

India: Central Himalayas

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

6.Threat Status:

IUCN: Least Concern

BSI:

7.Habit and Habitat: Shrub; A shrub which is wide spreading, mostly from underground stems. Found in rocky landscapes often on slopes at the base of mountains.

8.Life Form: Phanerophytes

9.Economic Importance:The stems of most members of this genus contain the alkaloid ephedrine and are valuable in the treatment of asthma and many other complaints of the respiratory system

10. Probable Progenitor of:

11.DNA

C-value 2C (30.34 pg)¹⁰

Methodology Feulgen microdensitometry¹⁰

12.Basic chromosome number(s): $x=7$ 7, 10

13. Zygotic chromosome number(s): $2n=28$ 10,17

14. Gametic chromosome number(s): $n=14$ (pollen mitosis) 13

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

Image file

16.Ploidy level:Tetraploid 10, 13

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):Allotetraploidy¹⁷

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:13

Karyotype Median and subterminal¹³

Chromosome size Large¹³

NOR chromosome(s)

Degree of asymmetry Asymmetrical¹³

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

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