

Species Datasheet

Datasheet No. G-007.001.003
(family.genus.species)

1.Taxon:

Species: *Abies spectabilis* Spach

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file:

2. Synonyms: *Abies brevifolia* (A.Henry) Dallim., *A. chilrowensis* Parl., *A. spectabilis* var. *brevifolia* (A.Henry) Rehder, *A. spectabilis* subsp. *langtangensis* (Silba) Silba, *A. spectabilis* var. *langtangensis* Silba, *A. webbiana* (Wall. ex D.Don) Lindl., *A. webbiana* var. *brevifolia* A.Henry, *Picea naphta* Knight, *P. webbiana* (Wall. ex D.Don) Loudon, *Pinus spectabilis* D.Don, *P. striata* Buch.-Ham. ex Gord., *P. tinctoria* Wall. ex D.Don, *P. webbiana* Wall.ex D.Don

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Pinales Gorozh.
- Family: Pinaceae Spreng. ex F.Rudolphi
- Genus: *Abies* Mill.
- Species: *A. spectabilis* Spach

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Abietineae
Genus: *Abies* Mill.
Species: *A. spectabilis* Spach

4.Distribution:

Global: Afghanistan, China, North Pakistan, North India (Himalayas), Nepal

India: Jammu & Kashmir, Sikkim

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

6.Threat Status:

IUCN: Near Threatened

BSI:

7.Habit and Habitat:Large evergreen tree (50 m tall), *Abiesspectabilis*commonly occurs as a canopy dominant species in very wet forestespecially from c. 2500 m to 4,000 mabove sea level.

8.Life Form:Phanerophytes

9.Economic Importance: Timber is valuable for house buildings.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=12^{1, 2, 3}$

13. Zygotic chromosome number(s): $2n=$

14. Gametic chromosome number(s): $n=12$ (endosperm mitosis)^{2, 3}

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

Image file

16.Ploidy level:Diploid^{2, 3}

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:^{2, 3}

KaryotypeMedian and subterminal^{2, 3}

Chromosome size Large^{2, 3}

NOR chromosome(s)

Degree of asymmetry Moderately asymmetrical^{2, 3}

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; Translocation etc.):

