

Species Datasheet

Datasheet No. G-011.006.006
(family.genus.species)

1.Taxon:

Species: *Cupressus lusitanica* Mill

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Callitropsis lusitanica* (Mill.) D.P.Little, *Cupressus benthamii* var. *lindleyi* (Klotzsch ex Endl.) Mast., *C. coulteri* J.Forbes, *C. excelsa* J.Scott ex Carriere, *C. glauca* Lam., *C. glauca* var. *tristis* Endl., *C. karwinskiana* Regel, *C. lindleyi* Klotzsch ex Endl., *C. lindleyi* var. *hondurensis* (Silba) Silba, *C. lindleyi* subsp. *hondurensis* (Silba) Silba, *C. lusitanica* var. *chlorocarpa* Franco, *C. lusitanica* var. *communis* Franco, *C. lusitanica* var. *epruinosa* Franco, *C. lusitanica* subsp. *genuina* Franco, *C. lusitanica* var. *glauca* A.Henry, *C. lusitanica* var. *hondurensis* Silba, *C. lusitanica* var. *lindleyi* (Klotzsch ex Endl.) Carriere, *C. lusitanica* var. *lusitanica*, *C. lusitanica* subsp. *mexicana* (K.Koch) Maire, *C. lusitanica* var. *skinneri* (J.Scott ex Carriere) A.Henry, *C. lusitanica* var. *tristis* (Endl.) Carriere, *C. lusitanica* var. *uhdeana* (Gordon ex Carriere) Carriere, *C. lusitanica* f. *vulgaris* Franco, *C. mexicana* K.Koch, *C. pendula* L'Her., *C. sinensis* J.Lee ex Gord., *C. thurifera* Lindl., *C. uhdeana* Gordon ex Carriere, *Hesperocyparis lindleyi* (Klotzsch ex Endl.) Silba, *H. lindleyi* subsp. *hondurensis* (Silba) Silba, *H. lusitanica* (Mill.) Bartel, *Juniperus uhdeana* Gordon, *Neocupressus lusitanica* (Mill.) de Laub., *N. lusitanica* var. *lindleyi* (Klotzsch ex Endl.) de Laub.

3. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Cupressus* L.
- Species: *C. lusitanica* Mill

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Cupressineae

Genus: *Cupressus* L.

Species: *C. lusitanica* Mill

4.Distribution:

Global: Mexico to the mountains of Guatemala, Portugal.

India: Goa, Tamil Nadu, Uttarakhand

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

6. Threat Status:

IUCN: Least concern

BSI:

7. Habit and Habitat: Evergreen tree (25-30 m tall), Forming pure, dense stands or scattered in mixed montane conifer forest or pine forest, also in pine-oak forest and woodland

8. Life Form: Phanerophytes

9. Economic Importance: valuable timber tree where it grows tall and straight, but not used extensively in its native range.

10. Probable Progenitor of:

11. DNA

C-value	Methodology
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2C (21.50 pg) ¹¹	
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	Flow cytometry ¹¹
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12. Basic chromosome number(s): $x=11$ ^{3, 5, 6, 7, 8}

13. Zygotic chromosome number(s): $2n=22$ ^{3, 6}

14. Gametic chromosome number(s): $n=11$ ^{7, 8}

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

Image file

16. Ploidy level: Diploid^{3, 6, 7, 8}

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:^{3, 6}

Karyotype Median and submedian^{3, 6}

Chromosome size Large^{3, 6}

NOR chromosome(s) 2³

Degree of asymmetry Symmetrical^{3, 6}

Image file

22. Banding pattern(s): CMA⁺ bands³

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 11II^{7, 8}

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.):