

Species Datasheet

(Family.genus.species)

Datasheet No. G-007.003.003

DBT- Network Programme

1.Taxon:

Species: *Larix sibirica* Ledeb.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Larix altaica* Fisch. ex Gordon, *L. altaica* Fisch. ex Parl., *L. archangelica* C.Lawson, *L. decidua* var. *rossica* Henk. & Hochst., *L. decidua* var. *russica* (Endl.) Henkel & W.Hochst., *L. decidua* var. *sibirica* (Ledeb.) Regel, *L. decidua* subsp. *sibirica* (Ledeb.) Domin, *L. europaea* Middend., *L. europaea* var. *russica* (Endl.) Beissn., *L. europaea* var. *sibirica* (Ledeb.) Loudon, *L. pseudolarix* Lodd.ex Gordon, *L. russica* (Endl.) Sabine ex Trautv., *L. sibirica* var. *hybrida* Y.N.Lee, *L. sibirica* f. *pendula* Schelle, *L. sibirica* var. *viridis* Y.N.Lee, *L. sukaczewii* Dylis, *Pinus larix* var. *intermedia* Antoine, *P. larix* var. *russica* Endl., *P. pseudolarix* Steud.

3.Systematic Position:

Christenhusz et al. (2011)

Class: Equisetopsida C. Agardh

Subclass: Pinidae Cronquist

Order: Pinales Gorozh.

Family: Pinaceae Spreng.

Genus: *Larix* Mill.

Species: *L. sibirica* Ledeb.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae Eichler

Genus: *Larix* Mill.

Species: *L. sibirica* Ledeb.

4.Distribution:

Global: Native of western Russia

India:

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

6. Threat Status:

IUCN: Least concern

BSI:

7. Habit and Habitat: Medium to large sized deciduous tree (20-50 m tall), occurs in lowland taiga of western Siberia, 500-2400 m a.s.l

8. Life Form: Phanerophytes

9. Economic Importance: An important timber tree in Russia, wood is also milled for construction timber and veneer and pulped for the paper industry.

10. Probable Progenitor of:

11. DNA**C-value Methodology**

2C (24.59pg) 18 Feulgen microdensitometry¹⁸

12. Basic chromosome number(s): $x=12$ 1, 5, 7, 6, 9, 12, 14, 17, 18, 21, 24, 26

13. Zygotic chromosome number(s): $2n=24$ 1, 5, 7, 9, 12, 14, 17, 18, 21, 24, 26, 24, 36, 48¹⁹,
24, 24+1B, 24/48²²,
24, 24/48¹³,
24, 22/23/25/26, 24/36, etc. 28,
24+0-1B¹⁵

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

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

Image file

16. Ploidy level: Diploid^{1, 5, 7, 9, 12, 14, 17, 18, 21, 24, 26},
Triploid (sporadic)^{19, 20},
Tetraploid (sporadic)^{19, 20}
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: 5

Karyotype Median and submedian5
Chromosome size Large5
NOR chromosome(s) 45
Degree of asymmetry Symmetrical5
Image file

22. Banding pattern(s):CMA+, DAPI+ bands 5
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.):