

Species Datasheet

Datasheet No. A-140.028.007
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Lenslamottei*Czefr.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Genus: *Lens*Mill.
- Species: *L.lamottei*Czefr.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: RosalesBercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: PapilionaceaeGiseke
Genus: *Lens*Mill.
Species: *L.lamottei*Czefr.

4. Distribution:

Global: France, Morocco and Spain

India: Experimental stations

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Climbing herb. Height ~ 15-30 cm. Temperate and Subtropics.

8. Life Form: Chamaephytes

9. Economic Importance: Secondary gene pool resource for lentil

10. Probable Progenitor of:

11. DNA

C-value **Methodology**

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

13. Zygotic chromosome number(s): $2n=14^{6, 7, 26, 34, 87, 88, 93}$

14. Gametic chromosome number(s): $n=7^{4, 6, 7, 34}$

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

Image file

16. Ploidy level: Diploid^{7, 34}

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:⁷

Karyotype Majority metacentric /sub metacentric chromosomes

Chromosome size Medium

NOR chromosome(s) 2

Degree of asymmetry

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization: 18S-5.8S-25S and 5S ribosomal gene families⁴⁰

and pLc30 and pLc7 repeated DNA sequences⁸⁰

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis⁷ II⁷

Image file

27. Chromosome distribution at anaphase I:^{7:7}

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{48,70,85}

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