

Species Datasheet

Datasheet No. A-140.028.006
(family.genus.species)

DBT- 1

1. Taxon:

Species: *Lens ervoides*(Bring.) Grande
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. **Synonyms:***Cicer ervoides* Brign., *C. ervoides* Brignoli di Brunhoff, *Ervum ervoides* (Brign.) Hayek, *E. hohenakeri* Fisch. &C.A.Mey., *E. lenticula* Schreb. ex Sturm, *Lens lenticula* (Schreb.) Alef., *L. lenticula* Webb &Berthel., *L. nigricans* subsp. *ervoides* (Brign.) Ladiz., *Vicia ervoides* (Brign.) Fiori, *V. lenticula* (Schreb.) Janka

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus:*Lens*Mill.
- Species: *L.ervoides*(Bring.) Grande

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. ervoides*(Bring.) Grande

4. Distribution:

Global: Africa, Asia and Europe

India: Experimental stations

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Herb. Height ~ 30 cm. Temperate and Subtropical.

8. **Life Form:** Chamaephytes

9. **Economic Importance:** Edible. Potential for disease resistance in lentil .Tertiary gene pool resource for lentil. The plant can be used as a green manure.

10. **Probable Progenitor of:**

11.DNA

C-value Methodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=14^{4,6,26,34,88,92}$

14. Gametic chromosome number(s): $n=7^{4,6,26,34}$

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

Image file

16.Ploidy level: Diploid^{4,6,26,34,87,88,92}

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:^{37,92}

Karyotype Majority submetacentric /subtelocentric 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 families³⁷
and pLc30 and pLc7 repeated DNA sequences^{39,80}

Image file

24.Genomic in situ hybridization:

Image file

25.Linkage map:⁶⁸

Image file

26.Chromosome associations:

Female meiosis

Male meiosis 7 11⁹²

Image file

27. Chromosome distribution at anaphase I: 7:7⁹²

28. Genetic diversity:

Chromosomal level

Image file

DNA level 48,50,57,60,66,67,69,70,75,80,81,82,85,86

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