

Species Datasheet

Datasheet No. A-140.093.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Lablab purpureus* (L.) Sweet
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Lablab purpureus* subsp. *Purpureus*

3. Systematic Position: APG IV; Bentham and Hooker:

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: Papilionaceae Giseke
Genus: *Lablab* Adans
Species: *Lablab purpureus* (L.) Sweet

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Lablab* Adans
- Species: *Lablab purpureus* (L.) Sweet

4. Distribution:

Global

India

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat:

8. Life Form:

9. Economic Importance: Green manure. Cover crop

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 22^{1,2,3,4,14,15}$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level:

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: $3,4,14$

Karyotype Majority metacentric chromosomes

Chromosome size

NOR chromosome(s) 4

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s): CMA/DAPI banding⁴, DAPI/CPD banding¹⁴

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization: 5S and 45 rDNA¹⁴, 18S–5.8S–25S rDNA¹⁵

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:⁵

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level⁴

Image file

DNA level^{4,6-13}

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