

Species Datasheet

Datasheet No. A-074.002.017
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Asparagus laevissimus* Steud. ex Baker

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Protasparagus laevissimus* (Steud. ex Baker) Kamble

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Asparagaceae Juss.
- Genus: *Asparagus* L.
- Species: *A. laevissimus* Steud. ex Baker

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Liliaceae Juss.
Tribus: Asparageae Dumort.
Genus: *Asparagus* L.
Species: *A. laevissimus* Steud. ex Baker

4. Distribution:

Global: India

India: Peninsular India

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Under shrub; Grows in Tropical Dry Forest.

8. **Life Form:** Hemicryptophytes

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C- value

Methodology

12. **Basic chromosome number(s):**

13. **Zygotic chromosome number(s):** $2n=40^{2,3,20}$

14. **Gametic chromosome number(s):** $n=10^{4,5,6}$
 $n=20^{20}$

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

Image file

16. **Ploidy level:** Diploid⁴

Tetraploid³

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:

Karyotype Majority submetacentric chromosomes³

Chromosome size Very small to small³

NOR chromosome(s) 2 NOR³

Degree of asymmetry Low level of asymmetry³

Image file

22. Banding pattern(s):

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 10 II⁴

Image file

27. Chromosome distribution at anaphase I: Regular⁴

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):Pollen stainability- 90%⁴