

Species Datasheet

Datasheet No. A-074.002.005
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Asparagus curillus* B. -Ham. ex Roxb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Asparagopsis curilla* (Buch.-Ham. ex Roxb.) Kunth, *Asparagus nepalensis* Baker, *Protasparagus curillus* (Buch.-Ham. ex Roxb.) Kamble.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Asparagaceae Juss.
- Genus: *Asparagus* L.
- Species: *A. curillus* B. -Ham. ex Roxb.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Liliaceae Juss.
Tribus: Asparageae Dumort.
Genus: *Asparagus* L.
Species: *A. curillus* B. -Ham. ex Roxb.

4. Distribution:

Global : India, Nepal, West Himalaya.

India: Subtropical Himalaya.

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Shrub; Grows in Tropical and Temperate Mixed Forest.

8. **Life Form:** Hemicryptophyte

9. **Economic Importance:** Used in Ayurveda, Roots are used in the treatment of urinary infection, stomach troubles, gonorrhoea, piles, diabetes.

10. **Probable Progenitor of:**

11. **DNA**

C- value

Methodology

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

13. **Zygotic chromosome number(s):** $2n=20$ ¹²

14. **Gametic chromosome number(s):** $n=10$ ^{12, 13, 14}

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

Image file

16. **Ploidy level:** Diploid¹²

Image file

17. **Agameteoploidy**

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

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

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis 10 II ¹⁴

Image file

27. Chromosome distribution at anaphase I: Normal ^{12, 14}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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