

# Species Datasheet

Datasheet No. A-074.002.001  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species *Asparagus adscendens* Roxb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Asparagopsis adscendens* (Roxb.) Kunth, *Asparagus satawur* J.A. Murr., *Protasparagus adscendens* (Roxb.) Kamble

## 3. Systematic Position:

### APG IV (2016)

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

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Ordo: Liliaceae Juss.  
Tribus: Asparageae Dumort.  
Genus: *Asparagus* L.  
Species: *A. adscendens* Roxb.

## 4. Distribution:

**Global :** India, Pakistan and West Himalaya.

**India:** West Himalaya and North West India.

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

## 6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Sub-erect, spiny, herbaceous climber. Grows in Temperate Mixed Forest.

8. **Life Form:** Hemicryptophyte

9. **Economic Importance:** Used in Ayurveda, Unani and Sidha. Whole plant is used for the treatment of dysuria. Tubers are given to cows to increase lactation.

## 10. Probable Progenitor of:

## 11. DNA

C- value

Methodology

## 12. Basic chromosome number(s):

13. **Zygotic chromosome number(s):**  $2n=20$ <sup>1,2,3</sup>

14. **Gametic chromosome number(s):**  $n=10$ <sup>4,5,6</sup>

15. **Specialized chromosomes (B chromosomes/ Sex chromosomes/ Polytene chromosomes/ Neocentric chromosomes):** B chromosomes (3)<sup>2</sup>

Image file

16. **Ploidy level:** Diploid<sup>2,3,4</sup>

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:**

**Karyotype** Majority submetacentric chromosomes<sup>3</sup>

**Chromosome size** Small to medium<sup>3</sup>

**NOR chromosome(s)** 3 NOR<sup>3</sup>

**Degree of asymmetry** Low level of asymmetry<sup>3</sup>

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<sup>4</sup>

Image file

**27. Chromosome distribution at anaphase I:** Regular<sup>4</sup>; Inversion bridge<sup>4</sup>

**28. Genetic diversity:**

**Chromosomal level**

Image file

**DNA level**

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