

## Species Datasheet

Datasheet No. A-032.009.004  
(family.genus.species)

DBT- 1

### 1.TAXON:

Species:*Vallisneria spiralis* L.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:** *Vallisneria aethiopica* Fenzl, *V. jacquiniana* Spreng., *V. jacquinii* Savi, *V. linnet* Bercht. & J. Presl, *V. micheliana* Spreng., *V. micheli* Savi, *V. numidica* Pomel, *V. pusilla* Barbieri ex Bertol., *V. spiralis* f. *aethiopica* (Fenzl) T. Durand & Schinz, *V. spiralis* var. *numidica* (Pomel) Maire & Weiller, *V. spiralis* var. *pusilla* (Barbieri ex Bertol.) Nyman

### 3.Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Hydrocharitaceae Juss.
- Genus: *Vallisneria* L.
- Species: *V. spiralis* L.

Bentham and Hooker (1862)

- Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Microspermae  
Ordo: Hydrocharideae  
Genus: *Vallisneria* L.  
Species: *V. spiralis* L.

### 4.Distribution:

**Global:** Europe to Indo-China and S. Africa

**India:** Throughout India

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

### 6.Threat Status:

IUCN:Least Concern

BSI

**7.Habit and Habitat:** Aquatic herb. Grows in slow-flowing or lentic lowland water bodies such as canals, ditches, rivers and occasionally lakes.

**8.Life Form:** Hydrophytes

**9.Economic Importance:** Used in aquarium and pond planting

### 10. Probable Progenitor of:

### 11.DNA

C-valueMethodology:

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

**13. Zygotic chromosome number(s):**  $2n=20^{1,2,6} 22^4 24^3 30^3 33^6 40^{3,5,6}$

**14. Gametic chromosome number(s):**  $n=10^4$

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

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

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:** Mostly sub-metacentric<sup>3</sup>

**Chromosome size:** Small size<sup>3</sup>

**NOR chromosome(s):** 2 NOR<sup>3</sup>

**Degree of asymmetry:** Asymmetrical<sup>3</sup>

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**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:**

Image file

**27. Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level:**

Image file

**DNA level**

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