

Species Datasheet

Datasheet No. A-030.002.004
(family.genus.species)

DBT- Ne

1. Taxon:

Species: *Caldesia parnassifolia* (Bassi ex L.) Parl.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Alisma calyophyllum* Wall., *A. damasonium* Willd., *A. dubium* Willd., *A. parnassifolia* Bassi ex L., *A. parnassifolium* L., *A. parnassifolium* var. *Baumgartenianum* Schur, *A. parnassifolium* var. *majus* Micheli, *A. parnassifolium* var. *mayus* Micheli, *A. reniforme* D. Don, *Caldesia parnassifolia* var. *dubia* Asch. & Graebn., *C.parnassifolia* var. *major* (Micheli) Buchen, *C. parnassifolia* var. *nilotica* Bouché, *C. parnassifolia* var. *terrestris* Asch. & Graebn., *C. reniformis* (D. Don) Makino, *C.reniformis* f. *natans* H. Hara, *Echinodorus parnassifolius* (L.) Engelm.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Alismataceae Vent.
- Genus: *Caldesia* Parl.
- Species: *C. parnassifolia* (Bassi ex L.) Parl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Apocarpae
Ordo: Alismaceae
Genus: *Caldesia* Parl.
Species: *C. parnassifolia* (Bassi ex L.) Parl.

4. Distribution:

Global: Native to Europe, Eastern Africa, Madagascar, and from China to Australia

India: Assam, Karnataka

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

6. Threat Status:

IUCN: Least concern
BSI:

7. Habit and Habitat: Herb; Grows in lakes, ponds, marshes, and canals.

8. Life Form: Hydrophytes

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): x=

13. Zygotic chromosome number(s): 2n=22^{6,7,8,9,10}

14. Gametic chromosome number(s): n=11^{8,10}

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:

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:

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level¹¹

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