

Species Datasheet

Datasheet No. A-403.024.002
(family.genus.species)

DBT-1

1. Taxon:

Species: *Cosmos caudatus*Kunth
Subspecies
Variety
Cultivar
Hybrid

Image file

2. **Synonyms:**[*Bidensartemisiifolia* subsp. *caudata* \(Kunth\) Kuntze](#), [*B. berteriana*Spreng.](#), [*B. carnea*Heer](#), [*B. caudata* \(Kunth\) Sch.Bip.](#), [*Cosmeacaudata* \(Kunth\) Spreng.](#), [*Cosmoscaudatus* var. *caudatus*](#),[*C. caudatus* var. *exaristatus*Sherff](#)

3. Systematic Position:

APG IV (2016)

- Kingdom:Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Asterales Link
- Family: AsteraceaeBercht. & J. Presl
- Genus: *Cosmos* Cav.
- Species: *C. caudatus*Kunth

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: CompositaeGiseke
Genus: *Cosmos* Cav.
Species: *C. caudatus*Kunth

4. Distribution:

Global:Belize, Bolivia, Brazil, Caribbean, Central America, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, India, Madagascar, Mexico, West Indies

India:

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:**Herb.

8. **Life Form:**Chamaephytes

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C-value **Methodology**

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

13. **Zygotic chromosome number(s):** $2n=48$ ¹⁶

14. **Gametic chromosome number(s):** $n=24$ ^{16,17}

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, aneusomy, polysomy):

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 level ¹⁸

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