

Species Datasheet

Datasheet No. A-403.017.001
(family.genus.species)

DBT-1

1. Taxon:

Species: *Calendula arvensis* M.Bieb.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Calendula arvensis* subsp. *arvensis*

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Asterales Link
- Family: Asteraceae Bercht. & J. Presl
- Genus: *Calendula* L.
- Species: *C. arvensis* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: Compositae Giseke
Genus: *Calendula* L.
Species: *C. arvensis* L.

4. Distribution:

Global: India, Stoliczka, South Europe, Western Asia

India: Kashmir, Western Himalaya

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

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

2C(5.41 pg) ¹Flow cytometry

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 36^{2,3,4}, 2n = 44^{1,5-10}$

14. Gametic chromosome number(s): $n = 22^{11}$

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 level¹²

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