Species Datasheet

Datasheet No. A-403.017.002 **DBT-** 1
(family.genus.species)

1.Taxon:

Species: *Calendula officinalis*L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Calendulaaurantiaca*Kotschy ex Boiss., *C.eriocarpa* DC., *C.hydruntina* (Fiori) Lanza, *C.officinalis* var. *officinalis,C.officinalis* var. *prolifera* Hort., *C.prolifera* Hort. ex Steud., *C.* × *santamariae* Font Quer, *C.sinuata* var. *aurantiaca* (Klotzsch ex Boiss.) Boiss.,*Calthaofficinalis* (L.) Moench

3. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: CompositaeGiseke
Genus: *Calendula* L.
Species: *C.officinalis* L.

4.Distribution:

Global: Argentina, Australia, Bolivia, Brazil, Chile, China, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, New Zealand, Peru, USA

India: Cultivated

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Herb.Cultivated and often run wild near cultivated fields

8.Life Form: Chamaephytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=8[13]

13. Zygotic chromosome number(s):2n=28[3,14],2n= 32[5, 15,16,17]

14. Gametic chromosome number(s):n=16[13]

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 level[12 , 18]

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