

Species Data Sheet

Datasheet No. A-078.012.015
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyanotistuberosa*(Roxb.) Schult. &Schult. f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2.Synonyms:*Cyanotisconcanensis* Hassk.,*C. sahyadrica* Blatt.,*C. stocksii* Hassk.,*C.tuberosa* var. *tuberosa*,*C. thomsonii* Hassk.,*Tonningiatuberosa* (Roxb.) Kuntze, *Tradescantiatuberosa* Roxb.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Cyanotis* D. Don.
- Species: *C. tuberosa* (Roxb.) Schult. &Schult. f.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledones

Series: Coronarieae

Ordo: Commelinaceae Mirb.

Genus: *Cyanotis*D. Don

Species: *C.tuberosa*(Roxb.) Schult. &Schult.

f.

4.Distribution:

Global: India

India:Peninsular India

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Herb, found in grassland.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12. Basic chromosome number(s): $x=12^1$

13. Zygotic chromosome number(s): $2n=24^{1,2,3,4,6,14}48^{2,3,4,14}72^{2,3,4}$

14. Gametic chromosome number(s): $n=12^{2,6,24}36^{3,24}$

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

Image file

16. Ploidy level: Hexaploid³

Image file

17. Agamete ploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype: Only subterminal¹

Chromosome size: Medium size

NOR chromosome(s):

Degree of asymmetry: Asymmetrical¹

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: $12\Pi^6$

Image file

27. Chromosome distribution at anaphase I: 12:12⁶

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

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