

Species Data Sheet

Datasheet No. A-078.012.017
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyanotis villosa* (Spreng.) Schult. & Schult. f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Cyanotislanceolata* Wight, *Tomningiavillosa* (Spreng.) Kuntze, *Tradescantiacyanotidea* Hassk., *T. villosa* Spreng.

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. villosa* (Spreng.) Schult. & Schult. f.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledones

Series: Coronarieae

Ordo: Commelinaceae Mirb.

Genus: *Cyanotis* D. Don

Species: *C. villosa* (Spreng.) Schult.

& Schult. f.

4. Distribution:

Global: India, Srilanka

India: Karnataka, Kerala, Tamil Nadu.

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

12. Basic chromosome number(s): $x=4^4$

13. Zygotic chromosome number(s): $2n=24^{1,6,7,15,16,25,26,27,28}26^{8,25,26,27}48^{26}$

14. Gametic chromosome number(s): $n=12^{6,10,15,16,25}13^{8,25,26}$

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

Image file

16. Ploidy level: Diploid^{6,25,26}

Image file

17. Agamete ploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): Aneuploidy^{8,26,27}, Centric fragment²⁷

21. Somatic chromosomes:

Karyotype:

Chromosome size:

NOR chromosome(s): $8NOR^6$

Degree of asymmetry: Symmetrical¹

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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:12II^{6,8,25,26}13II^{25,26}

Image file

27. Chromosome distribution at anaphase I:12:12^{6,26}, 11:13²⁶, 13:13²⁶

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

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