

# Species Data Sheet

Datasheet No. A-078.012.003  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Cyanotisaxillaris*(L.) D.Don ex Sweet

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Amischophacelusaxillaris*(L.) R.S.Rao&Kammathy, *Commelinaaxillaris*L., *Cyanotisdisrumpens*Hassk., *Tonningiaaxillaris*(L.) Raf., *T.axillaris*(L.) Kuntze, *Tradescantiaaxillaris*(L.) L., *Zygomenesaxillaris*(L.) Salisb.

## 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. axillaris*(L.) D.Don ex Sweet

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Ordo: Commelinaceae Mirb.  
Genus: *Cyanotis*D. Don.  
Species: *C. axillaris*(L.) D.Don ex

Sweet

## 4. Distribution:

**Global:** India to North Australia

**India:** Throughout India.

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

## 6. Threat Status:

**IUCN:** Least Concern

**BSI:**

7. **Habit and Habitat:** Herb. Found in teak forests; monsoon forest, woodland and wooded grassland, also humid meadows, shallow ditches and field borders.

## 8. Life Form:

## 9. Economic Importance:

## 10. Probable Progenitor of:

## 11. DNA

**C-value Methodology**

**12. Basic chromosome number(s):**  $x=4^{5,15}10^1$

**13. Zygotic chromosome number(s):**  $2n=20^{1,4,5,6,9,14,15,19,24,33,34}24^{35,36}$

**14. Gametic chromosome number(s):**  $n=10^{1,4,5,6,9,15,19,37}12^{35}$

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

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**16. Ploidy level:** Diploid<sup>1,4,5,6,9,19,33,34</sup>

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:** Mostly sub-terminal and terminal<sup>5,15,19,21</sup>

**Chromosome size:** Medium size

**NOR chromosome(s):** 4 NOR<sup>5,21</sup>

**Degree of asymmetry:** Asymmetrical<sup>1,19,21</sup>

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:**10II<sup>4,6,5,19,21</sup>

Image file

**27.Chromosome distribution at anaphase I:**10:10<sup>5</sup>

**28. Genetic diversity:**

**Chromosomal level:**

Image file

**DNA level**

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