

Datasheet No. A-074.005.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Agave decipiens* Baker

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Agave laxifolia* Baker

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Asparagaceae Juss.
- Subfamily: Agavoideae
- Genus: *Agave* L.
- Species: *A. decipiens* Baker
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Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledones

Series: Epigynae

Ordo: Amaryllideae

Tribus: Agaveae

Genus: *Agave* L.

Species: *A. decipiens* Baker

4. Distribution:

Global: Florida, Cape Provinces, Northern Provinces, India, Pakistan, Spain

India: Peninsular India

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

6. Threat Status:

IUCN: Not evaluated

BSI:

7. Habit and Habitat: Herbaceous, succulent; grows in tropical dry forest

8. Life Form: Perennial

9. Economic Importance: Fiber yielding plant

10. Probable Progenitor of:

11. DNA

C- value

4C (0.1945au)^{1,2}

Methodology

Feulgen microspectrophotometry^{1,2}

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=180$ ^{1,2,16}

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Hexaploid^{1,2,16}

Image file

17. Agametoploidy

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): variant metaphase plates showing $2n=150$ ¹⁶, $2n=160$ ¹⁶ $2n=190$ ¹⁶

21. Somatic chromosomes:

Karyotype

Chromosome size: very small to medium¹⁶

NOR chromosome(s): 22NOR^{1,16}

Degree of asymmetry: Bimodal karyotype with 5 long and 25 short chromosomes in haploid complement^{1,16}

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

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