# Species Datasheet

**Datasheet No. A-140.078.022** **DBT- Networ**
**(family.genus.species)**

**1.Taxon:**

Species: *Cajanusmollis* (Benth.) Maesen
Subspecies
Variety
Cultivar
Hybrid

**2. Synonyms:**

- *Atylosiamollis* Benth.
- *Cantharospermummolle* (Benth.) Taub.
- *Collaeamollis* Graham ex Wall.

**3.Systematic Position: APG IV; Bentham and Hooker:**

**APG IV (2016)**

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Cajanus* DC
- Species:*Cajanusmollis* (Benth.) Maesen

**Bentham and Hooker (1862)**
Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Cajanus* DC
Species: *Cajanusmollis* (Benth.) Maesen

**4.Distribution:**

**Global:** South- Eastern Asia

**India**

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

**6.ThreatStatus:**

**IUCN**

**BSI**

**7.Habit and Habitat:**

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**It forms the Tertiary gene pool

**11.DNA**

| **C-value** | **Methodology** |
|---|---|
| 4C – (3.28 ± 0.03)pg | Feulgen Microdensitometry1 |
| 1C DNA = 0.8 pg | Feulgen Microdensitometry2 |
| 2C DNA = 1.6 pg | Feulgen Microdensitometry2 |
| 4C DNA = 3.3 pg | Feulgen Microdensitometry2 |

**12.Basic chromosome number(s):**

**13. Zygotic chromosome number(s):**2n = 22[1, 2]

**14. Gametic chromosome number(s):**

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

**16.Ploidy level:**Diploid[2]

**17.Agametoploidy:**

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

**19.Genomic formula:**

**20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):**

**21.Somatic chromosomes:**[1]

**Karyotype:** MajoritySubmetacentric and Metacentric

**Chromosome size:** Small

**NOR chromosome(s):**

**Degree of asymmetry:** Asymmetrical karyotype

**22. Banding pattern(s):**

**23.Physical mapping of chromosomes:**

**In situ hybridization**

**Fluorescent in situ hybridization**

**24.Genomicin situ hybridization:**

**25. Linkage map:**

**26.Chromosome associations:**

**Female meiosis**

**Male meiosis**

**27.Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level**[107]

**DNA level**[80, 81, 101]

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