Species Datasheet

Datasheet No. A-140.031.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species
Subspecies
Variety:*Myroxylonbalsamum* var. *pereirae* (Royle) Harms
Cultivar
Hybrid

Image file

2. Synonyms:*Myrospermumpereirae*Royle, *M.sonsonatense*Oerst., *M.sonsonatense* Pereira ex Oersted, *Myroxylonpereirae*Klotzsch, *M.pereirae*Royle, *Toluiferabalsamum* var. *pereirae* (Royle) Baill., *T.pereirae*Baill.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Clade: Fabids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Genus: *Myroxylon*L.f.
- Species: *M.balsamum*(L.) Harms
- Variety: *M. balsamum* var. *pereirae* (Royle) Harms

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: RosalesBercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: PapilionaceaeGiseke
Genus:*Myroxylon*L.f.
Species: *M. balsamum* (L.) Harms
Variety: *M. balsamum* var. *pereirae* (Royle) Harms

4.Distribution:

Global: America, Caribbean, India, Sri Lanka

India: Karnataka, Kerala, West Bengal

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat: Tree.

8.Life Form: Phanerophyte

9.Economic Importance: Peru balsam is obtained from the scorched and wounded trunk of*Myroxylonbalsamum*var. *pereirae.*Crude balsam is

used in cough syrup and other medicinal. Essential oil is used in cosmetics and perfumery.

10. Probable Progenitor of:

11.DNA
C-value **Methodology**

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n= 28[1]

14. Gametic chromosome number(s):

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

16.Ploidy level:
Image file

17.Agametoploidy:

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

19.Genomic formula:

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

21.Somatic chromosomes:

Karyotype
Chromosome size
NOR chromosome(s)
Degree of asymmetry
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 (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):