

Datasheet No. A-085.002.025
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:*Musa rubra* Wall. ex Kurz

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:*Musa laterita*Cheesman

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Commelinids
- Order: Zingiberales Griseb.
- Family: Musaceae Juss.
- Genus:*Musa* L.
- Species: *M. rubra* Wall. ex Kurz

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Epigynae
- Ordo: Scitamineae
- Genus:*Musa* L.
- Species:*M. rubra* Wall. ex Kurz

4. Distribution:

Global: Bangladesh, India, Myanmar, Thailand

India: Manipur, Mizoram

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

6. Threat Status:

IUCN: Least concern

BSI:

7. Habit and Habitat:Large stoloniferous herb; grows as undergrowth and also on the slopes of forest margins

8. Life Form:Cormous geophyte

9. Economic Importance: Grown as ornamental plant

10. Probable Progenitor of:

11. DNA

C-value

2C (1.221±0.011 pg)²²

Methodology

Flow cytometry²²

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=22^{22,24,25}

14. Gametic chromosome number(s):n=11²⁴

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):89% cells showed presence of 1 B chromosome²⁴

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, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype: Majority metacentric chromosomes²⁴

Chromosome size: 1.33-2.74 μ ²⁴

NOR chromosome(s): 10 NOR²⁴

Degree of asymmetry: Stebbins 3A category²⁴

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: 11II²⁴; 8II + (1-2) III²⁴

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; Translocation setc): Pollen fertility – 98.6%²⁴