

Datasheet No. A-097.002.009
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:*Luzula spicata* (L.) DC.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:*Gymnodes spicata* Fourr., *Juncooides spicata* Kuntze, *J. spicatum* (L.) Coville, *Juncus spicatus* L., *Luciola spicata* Sm., *Luzula compacta* Desf., *L. spicata* f. *compacta* (E.Mey.) I.Grint., *L. spicata* f. *petraea* Laest. ex Neuman, *L. spicata* var. *compacta* E.Mey., *L. spicata* var. *major* Lange, *L. spicata* var. *petraea* Laest., *L. spicata* var. *relaxa* Krylov

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Poales Small
- Family: Juncaceae Juss.
- Genus: *Luzula* DC.
- Species: *L. spicata* (L.) DC.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Calycineae
- Ordo: Juncaceae Juss.
- Genus: *Luzula* DC.
- Species: *L. spicata* (L.) DC.

4. Distribution:

Global: Afghanistan, Alaska, Albania, Alberta, Aleutian Island, Altay, Arizona, Austria, British Columbia, Bulgaria, Buryatiya, California, China, Colorado, Corse, Czechoslovakia, East European Russia, Finland, France, Føroyar, Germany, Great Britain, Greece, Greenland, Iceland, Idaho, India, Iran, Irkutsk, Italy, Kazakhstan, Kirgizstan, Krasnoyarsk, Labrador, Maine, Manitoba, Mongolia, Montana, Morocco, Nevada, New Hampshire, New Mexico, New York, Newfoundland, North Caucasus, North European Russia, Northwest Territories, Norway, Oregon, Pakistan, Poland, Québec, Romania, Sardegna, Spain, Svalbard, Sweden, Switzerland, Tadzhikistan, Tibet, Transcaucasus, Turkey, Tuva, Ukraine, Uzbekistan, Vermont, Washington, West Siberia, Xinjiang, Yugoslavia, Yukon

India: Himachal Pradesh, Jammu and Kashmir, Punjab, Uttarakhand

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb; found on alpine slopes and heaths, dry or damp situations among grasses, herbs, or lichens, and in subalpine forests

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology

4C (7.77±0.28 pg)¹

Feulgen cytophotometry¹

12. Basic chromosome number(s):

13. **Zygotic chromosome number(s):** $2n=12^{25}$; $2n=14^{25}$; $2n=24^{1,25,26,27}$; $2n=36^{28}$

14. **Gametic chromosome number(s):** $n=6^{25}$; $n=12^{29}$

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, aneusomy, polysomy):**

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 (Aponixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc):**