

Product Information Sheet

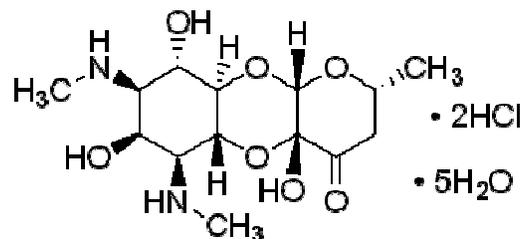
S742

Spectinomycin Dihydrochloride

Synonyms: Togamycin; Trobicin
 CAS: 22189-32-8
 Formula: $C_{14}H_{24}N_2O_7 \cdot 2HCl \cdot 5H_2O$
 Mol. Weight: 495.35

Properties

Form: Powder
 Appearance: White to Off-White Powder
 Application: Plant Tissue Culture Antibiotic
 Solubility: Soluble in Water
 Storage Temp: 2 to 6 °C



Application Notes

Spectinomycin is an aminocyclitol antibiotic derived from *Streptomyces spectabilis*. It inhibits protein synthesis by binding to the 30S ribosome subunit. Spectinomycin is effective against various Gram-negative bacteria.

Minimum inhibitory concentration (MIC) of spectinomycin has been reported for many species. MIC for *Staphylococcus aureus* is 50 µg/mL, *Streptococcus pyrogenes* is 100 µg/mL, *Echerichia coli* is 20 µg/mL, *Proteus spp.* and 25 µg/mL, *Salmonella typhimurium* is 30 µg/mL, *Pseudomonas aeruginosa* is 200 µg/mL, etc.³

Please Note: It is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References

1. Merck 13, 8813
2. Martindale: The Complete Drug Reference, 35th ed., Paul S. Blake, Ed. (Royal Pharmaceutical Society, 2007), p. 296.
3. Woodward, K. "809. Spectinomycin (WHO Food Additives Series 33)." IPCS Inchem. <http://www.inchem.org/documents/jecfa/jecmono/v33je06.htm> (accessed 27 Feb 2013).

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