



Product Information Sheet

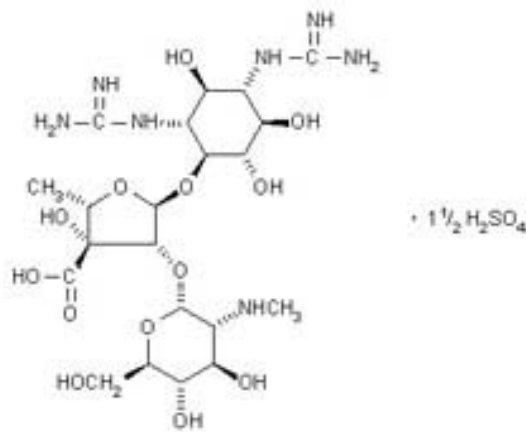
S7739 Streptomycin Sulfate Solution (250 mg/mL)

Synonyms: O-2-Deoxy-2-(methylamino)- α -L-glucopyranosyl-(1 \rightarrow 2)-O-5-deoxy-3-C-formyl- α -L-lyxofuranosyl-(1 \rightarrow 4)-N,N'-bis(aminoiminomethyl)-D-streptamine Sulfate

CAS: 3810-74-0

Formula: $(C_{21}H_{39}N_7O_{12})_2 \cdot 3H_2SO_4$

Mol. Weight: 1457.4



Properties

Form: Liquid
Appearance: Beige, Clear Liquid
Application: Plant Tissue Culture Antibiotic
Solubility: Miscible with Water
Storage Temp: 2 to 6 °C
Other Notes: This product is sterile filtered.

Application Notes

Streptomycin is an aminoglycoside antibiotic. It has similar mode of action to those of gentamicin in which it inhibits the initiation, elongation and termination of protein synthesis by binding to the 30S subunit and sometimes the 50S subunit of the bacterial ribosome. Similar to gentamicin, streptomycin is effective against many Gram-negative aerobes, e.g., *Brucella*, *Escherichia*, *Enterobacter*, *Francisella*, *Yersinia*, etc., and some strains of staphylococci.²

It has been reported to be incompatible with acids and alkalis.²

PhytoTechnology Laboratories® also carries streptomycin sulfate powder (Product No. S739).

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**, 8905
2. Martindale: *The Complete Drug Reference*, 35th ed., Paul S. Blake, Ed. (Royal Pharmaceutical Society, 2007), p. 297.

PhytoTechnology Laboratories®

P.O. Box 12205; Shawnee Mission, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

Web Site: www.phytotechlab.com

© 2013 PhytoTechnology Laboratories®