



## Product Information Sheet

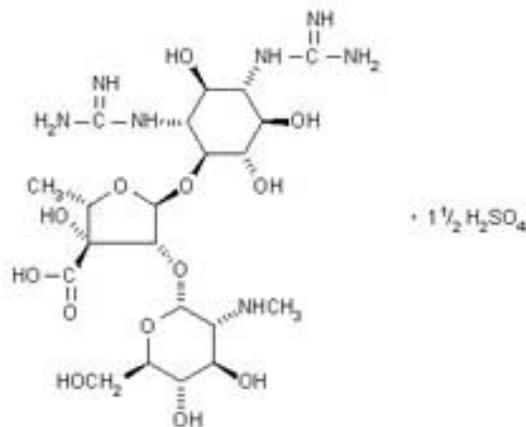
### S739 Streptomycin Sulfate

Synonyms: O-2-Deoxy-2-(methylamino)- $\alpha$ -L-glucopyranosyl-(1 $\rightarrow$ 2)-O-5-deoxy-3-C-formyl- $\alpha$ -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: Powder  
Appearance: White to Off-white Powder  
Application: Plant Tissue Culture Antibiotic  
Solubility: Soluble in Water  
Storage Temp: 2 to 6 °C  
Other Notes: This product is hygroscopic.

#### 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.<sup>2</sup>

It has been reported to be incompatible with acids and alkalis.<sup>2</sup>

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.