

Neomycin Sulphate Solution

With 10 mg/ml Neomycin in 0.9% normal saline

Product Code: A024

Product Description :

Molecular Weight: 908.88

Molecular Formula: $C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4$

CAS No: 1405-10-3

Neomycin sulfate salt is an aminoglycoside antibiotic obtained from *Streptomyces fradiae*. It is a complex of three separate compounds, neomycin A (neamine; inactive), neomycin C and neomycin B (framycetin).

Neomycin binds to 30S subunit of rRNA and interferes with translation process. This leads inhibition of initiation of protein synthesis and ultimately elongation of polypeptide chain. It is a broad spectrum antibiotic active against Gram-positive and Gram-negative organisms. In cell culture, neomycin sulfate is used as an antimicrobial agent to prevent contamination. It is also used as a selection agent for prokaryotic cells that have been transformed using the selectable marker gene (neo).

A024 is a sterile filtered solution formulated to contain 10mg neomycin per ml.

Directions :

Recommended use concentration is 5ml/L. Sensitive cell lines may react differently to this product. Hence it is recommended to determine optimum usage dose empirically for individual cell line.

Quality Control:

Appearance

Colorless, clear solution.

pH

5.50 - 6.50

Osmolality in mOsm/Kg H₂O

260.00 - 300.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Neomycin sulphate potency

8 - 10 mg/ml

Cultural Response

No toxicity to cells.

Endotoxin Content

NMT 0.5EU/ml

Storage and Shelf Life:

Store at 2-8°C.

Solution is stable for 5 days at 37°C.

Shelf life of the product is 24 months.

Use before expiry date given on the product label.

Revision No.: 1 / 2012

Disclaimer :

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