

Gentamicin, Sulfate Salt Solution

Contains 10 mg/mL gentamicin, sulfate salt
in Ultra Pure Water

DNase, RNase and protease – none detected

Catalog Number **ML 003-03**

Storage Temperature -5~-20°C

Product Description

Gentamicin sulfate is a broad spectrum antibiotic. It inhibits the growth of a wide variety of Gram-positive and Gram-negative microorganisms, including strains resistant to tetracycline, chloramphenicol, kanamycin, and colistin, particularly strains of *Pseudomonas*, *Proteus*, *Staphylococcus*, and *Streptococcus*. Gentamicin inhibits protein synthesis by binding to L6 protein of 50S ribosomal subunit.

ML 003-03 contains 10 mg/mL gentamicin, sulfate salt in Ultra Pure Water (**ML 019-02**). Working concentration is 10~15 µg/mL.

Storage/Stability

Gentamicin solution should be stored at -5~-20°C. Deterioration of the liquid may be recognized by (1) precipitate or particulate matter throughout the solution, (2) cloudy appearance, (3) color change, and/or (4) pH change. Product label bears expiration date.

Precautions

For *In Vitro* Use Only

Product Profile

Appearance	Clear colorless solution
DNase, RNase and protease	None detected
Sterility	Sterilized by 0.2 µm filtration system. Sterility tests are performed in accordance with protocols described in USP.

References

The Merck Index, 12th ed., Entry# 4398.
Rosenkrantz, B. E., et al., Analytical Profiles of Drug Substances, 9, 295-340 (1980). USP NF, 16th ed., p. 1162.
Antibiotics: origin, nature, and properties, Korzybski, T. et al., American Society for Microbiology (Washington, DC: 1978), pp. 712-723.
Antibiotics in Laboratory Medicine, 2nd ed., Lorian, V., ed., Williams and Wilkins (Baltimore, MD: 1986), pp. 694-696.
Martindale: The Extra Pharmacopoeia, 31st ed., Reynolds, J.E.F., ed., The Pharmaceutical Press (London, England: 1996), pp. 235-238.