

# PRODUCT DATA SHEET

## Gentamicin Solutions

### Description

Gentamicin is an anti-bacterial agent produced by *Micromonospora*. It binds to the 30S subunit of the bacterial 70S ribosome and blocks the initiation complex of protein synthesis.

The antimicrobial spectrum for this antibiotic includes gram-positive and gram-negative bacteria, and mycoplasma.

Gentamicin Solutions are available as a 10mg/ml solution and a 50mg/ml solution of gentamicin sulfate in deionized water.

### Product Use

The recommended use concentration for these antibiotic solutions in culture media is 5ml/L for the 10mg/ml solution and 1ml/L for the 50mg/ml solution. Individual cell lines may react differently to the toxic effects of this product; therefore, the optimal use dosage must be determined empirically for each cell line used. Gentamicin Solutions should be tested on the target cell line at multiple concentrations in order to evaluate cell line tolerance to the product. Cells should be observed daily for signs of toxicity such as rounding, loss of confluency, or vacuole formation.

### Precautions

These antibiotic solutions are hazardous. Review the Material Safety Data Sheet for additional information before handling this product.

### Storage and Handling

The Gentamicin Solutions are supplied in gamma irradiated, sterile PETG or PETE bottles. We recommend that the antibiotic solutions are stored refrigerated at a temperature of 2°C to 8°C. Always use aseptic techniques when handling antibiotic solutions.

### Shipping

The Gentamicin Solutions are shipped ambient by second day air.

*This product is manufactured for research and development purposes only. It is not intended for any human or animal diagnostic, therapeutic or other clinical uses. It is also not for agricultural, food, drug, cosmetic or household use. The use of these products must be supervised by a person technically qualified to handle potentially hazardous material.*