

# Gentamycin Sulfate

Gentamycin is an aminoglycoside antibiotic and was isolated from *Micromonospora* species (actinomycetales). The sulfate salt is soluble in water, formamide, ethylene glycol, 0.1N NaOH or 0.1N HCl at a concentration of >20mg/mL. It is insoluble in methanol, ethanol, acetone, benzene or chloroform.

In solutions Gentamycin is very stable at -20°C to 37°C. Short autoclaving is possible. It may be employed in the pH range from 2.2 and 10 without loss of activity.

Stock Conc.: 10-50mg/mL in water, store at -20°C.

Product Code:	AG0100-0025
CAS number:	1405-41-0
Formula:	C <sub>60</sub> H <sub>125</sub> N <sub>15</sub> O <sub>25</sub> S
Storage:	Store at 4°C. For long-term storage, store at -20°C.

## Specification

Appearance(Color)	White to off-white
Appearance(Form)	Powder
Solubility(Turbidity), 50mg/mL, H <sub>2</sub> O	Clear to Very Slightly Hazy
Infrared Structure	Conforms
Water, %	≤15%
pH	3.5 to 5.5
Specific Rotation	+107° to +121°
Potency(on Dry Basis, ug/mg)	≥590