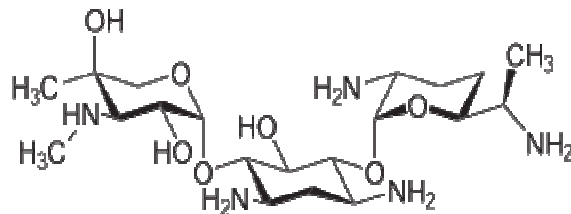


□ Cat # ABT-380-25	Gentamycin, Sulfate (Pharma Grade)	Size: 25 g
Cat # ABT-380-05	Gentamycin, Sulfate (Pharma Grade)	Size: 5 g

General Information

Gentamicin is an aminoglycoside antibiotic, used to treat many types of bacterial infections, particularly those caused by Gram-negative bacteria. However, gentamicin is not used for *Neisseria gonorrhoeae*, *Neisseria meningitidis* or *Legionella pneumophila*. Gentamicin is a bactericidal antibiotic that works by binding the 30S subunit of the bacterial ribosome, interrupting protein synthesis.

E. coli has shown some resistance to gentamicin, despite being Gram-negative. The gentamicin protection assay enables researchers to quantify the ability of pathogenic bacteria to invade eukaryotic cells. It takes advantage of the fact that gentamicin is not able to penetrate eukaryotic cells.



Molecular Formula:
(C₂₁H₄₃N₅O₇)
Molecular Weight:
477.59 g/mol

TEST	SPECIFICATION
identity	PASS
Specific rotation	+107 DEG TO +121 DEG
pH test	3.5 TO 5.5 (4% SOLUTION)
Loss on drying	< OR = 18.0%
Residue on ignition	< OR = 1.0%
Limit of methanol	< OR = 1.0%
Gentamicin C1	25% TO 50%
Gentamicin C1A	10% TO 35%
Gentamicin C2A+C2	25% TO 55%
Residual Solvents	MEETS THE REQUIREMENTS
Assay	> OR = 590 UG/MG (DRY BASIS)
Solubility	50 mg/ml; water

ABT-380-05

12105A

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