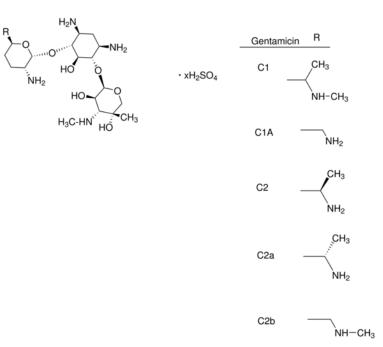


Gentamicin sulphate

Cat # NB-42-01363-10g	size: 10g
Cat # NB-42-01363-25g	size: 25g
Cat # NB-42-01363-100g	size: 100g



Product Information

Batch No.:	AS508410
Batch Molecular Weight:	1,530.86 g/mol
CAS No.:	[1405-41-0]
Physical Appearance:	White to almost white powder
Melting Point:	217-237 °C
Storage:	2-8°C

Solvent and solubility

50 µg/mL in H2O (is the recommended working concentration for eukaryotic cell culture)

Biological activity & Application

Gentamicin sulfate, a broad-spectrum antibiotic, used as a selection agent (gentamicin-resistance gene) in cell culture and molecular biology applications. This product is recommended for use at 50 mg/L.

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Neo-Biotech 74, rue des Suisses - 92000 Nanterre



Mode of action: Gentamicin causes codon misreading by binding to the 30S ribosomal subunit, blocking the translocation of peptidyl-tRNA from the acceptor site to the donor site. The bactericidal effect of gentamicin on Pseudomonas aeruginosa is exerted by the binding of gentamicin to the outer membrane, where it displaces natural cations, destabilizes the membrane, and forms holes in the cell surface.

Antimicrobial spectrum: Includes Gram-negative and Gram-positive bacteria, including strains resistant to tetracycline, chloramphenicol, kanamycin and colistin, particularly strains of Pseudomonas, Proteus, Staphylococcus and Streptococcus.

Analytical data

ITEMS	SPECIFICATION	RESULTS
Appearance	White to off-white powder	Conforms
РН	3.5-5.5	4.8
Specific optical rotation	+107deg to +121deg	+117deg
Methanol	≤1.0%	Conforms
Composition	C1:25.0% to 50%	26.0%
	C1a:10% to 35%	29.0%
	C2a+C2:25% to 55%	45.0%
Water	≤15%	11.2%
Sulphate ash	≤1.0%	0.3%
Sulphate	32.0% to 35.0%	33.0%
Bacterial endotoxins	≤0.71 IU/mg	Conforms
	Potency equivalent to not less than 590ug of	
	Gentamycine per milligram,calculated on the dry	692ug/mg
Assay	basis	615ug/mg
	(Hydrous substance)	
Conclusion	Up to the Standard(BP2002/EP4)	

Notes: approx. 650 units/mg An aminoglycoside antibioticCell culture tested

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