

Gentamycin (sulphate)

#GAB08.0005

(for research only)

Product:	Gentamycin is an aminoglycoside antibiotic complex comprised of 3 major components (C1, C1a, and C2). It inhibits protein synthesis by binding to the 30S subunit of the ribosome. It is a broad-spectrum antibiotic with activity against Gram (+) and Gram (-) bacteria, and mycoplasmas.
Quantity:	5g
Appearance:	white or slightly yellow needle crystals or crystalline solid
Storage:	2°C–8°C for at least to 3 years.
Preparation:	Prepare a stock solution of 50mg/ml in ultrapure water, and filter sterilize. Do not autoclave. Store stock solution at 2°C-8°C.
Usage:	For incorporation in agar plates or broth, add chloramphenicol to a final concentration of 50µg/ml by adding to autoclaved media agar, just prior to pouring the plates, or to broth after cooling down to room temperature.

Specifications:

Composition:

Gentamycin C1: 25 - 50%

Gentamycin C1a: 10 - 35%

Gentamycin C2: 25 - 55%

Formulas:

Gentamycin C1: $C_{21}H_{43}N_5O_7$ (Mw=477,6g/mol)

Gentamycin C1a: $C_{19}H_{39}N_5O_7$ (Mw=449,5g/mol)

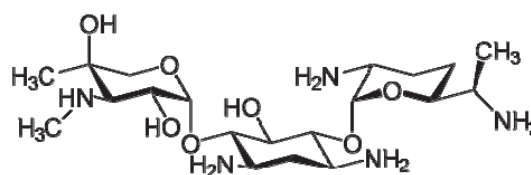
Gentamycin C2: $C_{20}H_{41}N_5O_7$ (Mw=463,6g/mol)

Potency: >590µg/mg (on dry basis)

Water content: <18%

Specific optical rotation: +107° to +121°

Solubility (H₂O): 50mg/ml



Structure of Gentamycin 2

ORDERING INFORMATION – Molecular Cloning – Common Reagents

Reference #	Product Name	Quantity
GAB01.0005	IPTG (max 5 ppm dioxane)	5 g
GAB02.0005	X-Gal	5 g
GAB03.0005	Ampicillin (sodium salt)	5 g
GAB04.0005	Kanamycin (sulphate)	5 g
GAB05.0005	Chloramphenicol	5 g
GAB06.0005	Carbenicillin (disodium salt)	5 g
GAB07.0005	Tetracycline (hydrochloride)	5 g
GAB08.0005	Gentamycin powder	5 g

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