Kanamycin (sulphate)

#GAB04.0005

(for research only)

Product: Kanamycin, from *Streptomyces kanamyceticus*, is a bactericidal agent that acts by binding to the 30S subunit inhibiting protein synthesis, and as such functions as a broad-spectrum antibiotic, effective against many Gram(+) and most Gram(-) bacteria. Kanamycin is frequently used for the selection of bacteria transformed with a vector harbouring a gene conferring kanamycin resistance, but it is also often used for the prevention of bacterial contamination of cell cultures.

Quantity: 5g

Appearance: White, slightly off-white crystalline solid

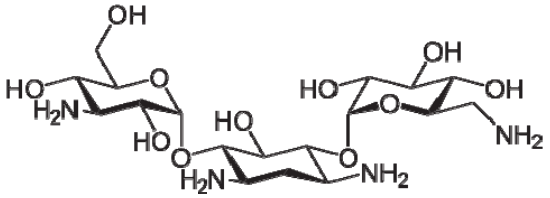
Storage: 2ºC – 8ºC for up to 3 years.

Preparation: Prepare a stock solution of 10-50mg/ml in ultrapure water, and filter sterilize. Do not autoclave. Store stock solution at +4ºC for several weeks or at -20ºC for long term storage.

Usage: For incorporation in agar plates or broth, add kanamycin to a final concentration of 50 µg/ml (10-100µg/ml depending on, among other factors, type of vector (low-copy vs high-copy number plasmid)) by adding to autoclaved media agar, just prior to pouring the plates, or to broth after cooling down to room temperature.

Specifications:

Formula: $C_{18}H_{36}N_4O_{11}$ ($+H_2SO_4$)
MW: 528,6 g/mol
Potency: >750µg/g (on dry basis)
Water content: <4% (Karl Fischer)
Solubility (H_2O): 50mg/ml



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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