

Description

Kanamycin is an aminoglycoside antibiotic commonly used in molecular biology to select cells that have been successfully transformed with a plasmid containing a kanamycin resistance gene. It works by inhibiting bacterial protein synthesis, which is lethal to most bacteria.

Applications of Kanamycin Solution

- **Plasmid Selection:** Kanamycin resistance genes are often included in plasmid vectors. By adding kanamycin to the growth medium, only cells containing the plasmid will survive.
- **Gene Expression Studies:** Kanamycin can be used to induce gene expression in certain systems.
- **Bacterial Culture:** In some cases, kanamycin can be used as an antibiotic to suppress bacterial growth in cultures

Concentration

25 mg/mL in 0.9% NaCl, sterile filtered.

Unit Size

5 mL or 25 mL/bottle

Storage

The Item is stored at -20°C for long-term shelf-life.

CAS Number

25389-94-0

Working Concentration

Cell/Tissue Culture: ~30 µg/mL
Stringent Plasmids: 10 µg/mL
Relaxed Plasmids: 50 µg/mL

Relative Products

Gentamicin Solution (TBS8049)
Penicillin-Streptomycin-Amphotericin B (TBS8037)
HT Supplement (TBS8073)
Hybridoma Growth Medium (TBS8074)
HAT Supplement (TBS8075)
Ham's F-12 Medium (TBS8032)
DMEM Medium (TBS6061)
RPMI16040 Medium (TBS8063)
DMEM-F12 Mixture (TBS8083)
ESC/iPSC-qualified FBS (TBS8002)
Adipocyte Differentiation Cocktail (TBS8017)
0.1% Gelatin Solution (TBS8004)
2x HBS, pH7.05 (TBS5076)
LB Medium (TBS8056)
SOB Medium (TBS8057)
SOC Broth Medium (TBS8058)
2xYT Broth Medium (TBS8059)

For research use only.