

Chloramphenicol Solution

Contains 10 mg/mL chloramphenicol in absolute ethanol
DNase, RNase and protease – none detected

Catalog Number **ML 003-02**

Storage Temperature -5~-20°C

Product Description

Chloramphenicol is a synthetic antibiotic, which was first isolated from strains of *Streptomyces venezuelae*. It has a broad spectrum of activity against Gram-positive and Gram-negative bacteria. Chloramphenicol inhibits protein synthesis (elongation) by inhibiting translation on the 50S ribosomal subunit at the peptidyltransferase step. This antibiotic is often used in molecular biology applications for bacterial selection (10~20 µg/mL). The mode of resistance is inactivation of chloramphenicol (acetylation) by chloramphenicol acetyltransferase (cate gene).

ML 003-02 contains 10 mg/mL chloramphenicol in absolute ethanol. Working concentration is 10~20 µg/mL.

Storage/Stability

Chloramphenicol solution should be stored at -5~-20°C. Deterioration of the liquid may be recognized by (1) precipitate or particulate matter throughout the solution, (2) cloudy appearance, (3) color change, and/or (4) pH change. Product label bears expiration date.

Precautions

For *In Vitro* Use Only

Product Profile

Appearance	Clear colorless solution
DNase, RNase and protease	None detected
Sterility	Sterilized by 0.2 µm filtration system. Sterility tests are performed in accordance with protocols described in USP.

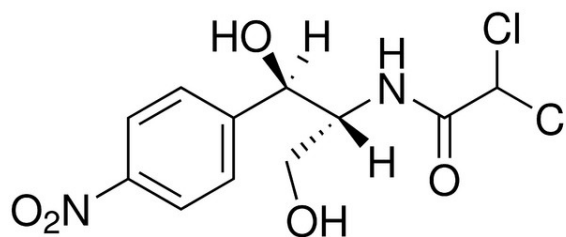
Molecular Weight

323.1 g/mole

Molecular Formula

C₁₁H₁₂Cl₂N₂O₅

Molecular Structure



References

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