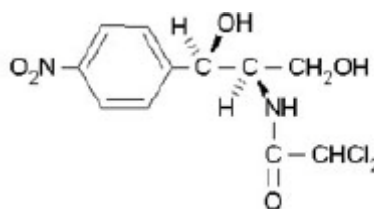


Chloramphenicol Solution
100 mg/mL



Synonym: [R-(R*,R*)]-2,2-Dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide, Chloromycetin, CAP

CAS: 56-75-7

Formula: C₁₁H₁₂Cl₂N₂O₅

Molecular Wt: 323.13

Properties

Form: Liquid

Appearance: Clear, Colorless

Application: Plant Tissue Culture Antibiotic

Solubility: Miscible with Water

Typical Working Concentration: Consult the appropriate literature for your plant species and application.

Storage Temp: -20 °C

Storage Temp of Stock Solution: N/A

Other Notes: Derived from *Streptomyces venezuelae*. Plant Tissue Culture Tested

Application Notes

Chloramphenicol is derived from *Streptomyces Venezuelae* and has a broad spectrum of activity. It is often used for bacterial selection in molecular biology. Chloramphenicol is effective against Gram-positive and Gram-negative bacteria. It functions by binding to the 50S ribosomal unit to prevent aminoacyl tRNA from binding to the ribosome which prevents elongation of protein chain.

Please Note: While *PhytoTechnology Laboratories*® tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References

Sweetman SC (ed), *Martindale: The Complete Drug Reference* 35. China: Pharmaceutical Press, 2007.

Revised on 31 Oct 11 PN