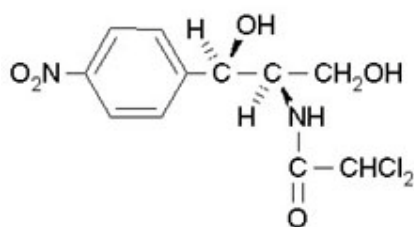




Product Information Sheet

C252



Chloramphenicol

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: Powder

Appearance: Off-white to Yellow

Application: Antibiotic

Solubility: Soluble in water at up to 2.5 mg/mL per the Merck Index. More highly soluble in ethanol. Consult the certificates of analysis for lot-specific solubility information.

Typical Working Concentration: Varies by application, should be determined by end user.

Storage Temp: Room Temperature

Storage Temp of Stock Solution: Store at 2-6°C for 30 days. Protect from light.

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.

References

Merck 13, 2087

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

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