Canvax Reagents, S.L.U.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com

www.canvaxbiotech.com

DATA SHEET

Version: 2
Revision date: 24/02/23

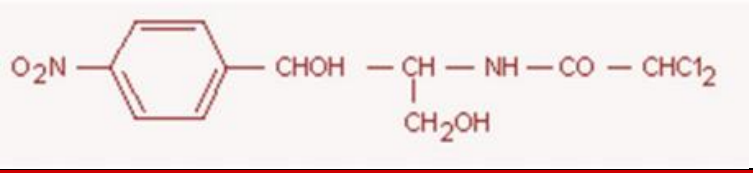
1. Identification

Product name **Chloramphenicol**
25 g

Cat. No **AB003**

2. Description

Chloramphenicol is an antibiotic originally isolated from the soil bacterium Streptomyces venezuelae. It has a broad spectrum antibiotic (bacteriostatic) active against a wide variety of gram-positive and gram-negative bacteria, including most anaerobic organisms. Chloramphenicol blocks bacterial protein synthesis by inhibiting the peptidyl transferase activity of the 50S ribosomal subunit (elongation inhibition).



3. Specifications

- CAS Number: 56-75-7
- Chemical Formula: C11H12Cl2N2O5
- Molecular Weight: 323.13
- Appearance: White or slightly yellow needle crystals or crystalline
- Loss on drying: < 0.5%
- Soluble in water (2.5 g/l) at 25 °C, methanol, ethanol, butanol, ethyl acetate, acetone, DMSO, and propylene glycol (150.8 mg/ml)
- Nuclease-free quality

4. Storage specifications

Store at -20° C

5. Applications

- Used in researching protein synthesis.
- Used to select for chloramphenicol-resistant transformed cells or the bacterial CAT gene.
- Used in chloramphenicol acetyl transferase (CAT) assay.

6. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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