

Product Data Sheet

Cat # ABT-090-010
Cat # ABT-090-100

Chloramphenicol (Pharma Grade)
Chloramphenicol (Pharma Grade)

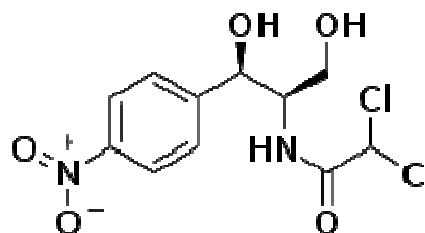
Size: 1 g
Size: 100 g (Bulk or Custom)

General Information

Chloramphenicol is a bacteriostatic antimicrobial. It is considered a prototypical broad-spectrum antibiotic, alongside the tetracyclines.

Chloramphenicol is effective against a wide variety of Gram-positive and Gram-negative bacteria, including most anaerobic organisms. Due to resistance and safety concerns, it is no longer a first-line agent for any indication in developed nations, although it is sometimes used topically for eye infections; nevertheless, the global problem of advancing bacterial resistance to newer drugs has led to renewed interest in its use. In low-income countries, chloramphenicol is still widely used because it is exceedingly inexpensive and readily available.

The most serious adverse effect associated with chloramphenicol treatment is bone marrow toxicity, which may occur in two distinct forms: bone marrow suppression, which is a direct toxic effect of the drug and is usually reversible, and aplastic anemia, which is idiosyncratic (rare, unpredictable, and unrelated to dose) and generally fatal.



Molecular Formula: (C₁₁H₁₂Cl₂N₂O₅)

Molecular Weight: 323.132 g/mol

Certificate of Analyses

Analysis Test	Specification	Results
Description	White or slight yellow crystalline powder	slight yellow crystalline powder
Melting point(°C)	148-150 °C	150 °C
Index of refraction	20 °(C=5, Et OH)	Complies
[α] D ₂₀ (C=6, Ethanol)	19.5 °	Complies
Water solubility (25 ° C)	2.5 g/L	Complies
Residual Solvents Chlorobenzene	≤0.036%	Complies
Solubility	in ethanol (50 mg/ml) very soluble in butanol, acetone, ethyl acetate; slightly soluble in water (2.5 mg/ml);	
Ethanol	≤0.5%	Complies
Related substances(dried substance)	Chloramphenicol Glycols ≤1.0%	0.6%
	Nitrobenzaldehyde≤0.5%	0.2%
Conclusion	QC Passed	

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ABT-090-010

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