

Antibiotics, Antimycotics & Agents for Selection - Product Specifications

	Product Use	Mode of Action
Actinomycin D	Agent for Selection	Complexes with DNA, inhibits RNA synthesis
Amphotericin B	Yeasts/Molds	Alters membrane permeability
Ampicillin, Trihydrate	Gram+/Gram-	Interferes with formation of bacterial cell wall
Ampicillin, Sodium Salt	Gram+/Gram-	Interferes with formation of bacterial cell wall
Bacitracin Zinc	Gram+	Inhibitor of protein disulfide, and a peptide inhibitor
Carbenicillin, Disodium	Gram-	Synthetic derivative of Penicillin
Chloramphenicol	Gram+/Gram-	Inhibits protein synthesis at peptidyltransferase
Chlortetracycline Hydrochloride	Gram+/Gram-	Inhibits transfer of activated amino acids to growing polypeptide chain
Cycloheximide	Yeasts/Molds	Inhibits protein synthesis in eukaryotes but not in prokaryotes
D-Cycloserine	Gram+/Gram-	Inhibits cell wall biosynthesis
Erythromycin	Gram+/Gram-	Inhibits protein synthesis at transpeptidation step
G418 (Geneticin)	Agent for Selection	An aminoglycoside similar to gentamycin
Gentamycin Sulfate	Mycoplasma, Gram+/Gram-	Binds to the 30S subunit of bacterial ribosome
Hygromycin B	Eukaryotic/Prokaryotic	Blocks peptide synthesis, inhibits chain elongation
Kanamycin Sulfate	Mycoplasma, Gram+/Gram-	Binds to the 70S subunit of bacterial ribosome
Mitomycin C	Prep. of STO feeder layers	Inhibits nucleic acid synthesis
Monensin, Sodium Salt	Agent for Selection	Inhibitor of DNA synthesis
Mycophenolic Acid	Mammalian Expression	Inhibits Inosinate dehydrogenase
Nalidixic Acid	Gram-	Inhibits DNA gyrase
Neomycin Sulfate	Gram+/Gram-	Causes miscoding during protein synthesis
Netropsin	Gram+/Gram- Myco, Yeast	Inhibits protein synthesis by binding dsDNA
Nystatin	Yeasts/Molds	Alters membrane permeability
Penicillin G	Gram+	Interferes with synthesis of bacterial cell wall
Plicamycin (Mithramycin)	Agent for Selection	Inhibitor of RNA synthesis
Polymyxin B Sulfate	Gram-	Interferes with cytoplasmic membrane
Puromycin, Dihydrochloride	Eukaryotic/Prokaryotic	Inhibits protein synthesis
Streptomycin Sulfate	Gram+/Gram-	Binds to the 30S subunit of bacterial ribosome
Tetracycline, Hydrochloride	Gram+/Gram-	Blocks the binding of tRNA to the 30S subunit
Tobramycin	Gram-	Inhibits Myeloperoxidase dependent oxidant cell injury
Vancomycin, Hydrochloride	Gram+	Amphoteric glycopeptide that inhibits bacterial cell wall synthesis and RNA synthesis

* Gram+ = Gram Positive Bacteria

* Gram- = Gram Negative Bacteria