



PurMa™ Antibiotic Guidelines

- Prokaryotic cell
- Concentration & Preparation Methods
(100X & 1000X Stock)

Name of Antibiotic	Recommended 100X Concentration	Preparation
Ampicillin (1000X)	50 mg/ml	Stock Solutions: Solubility in water: Preparation: The stock solution was prepared in cell culture suited water (50 mg/ml).
Kanamycin Sulfate	25 µg/ml	Stock Solutions: Solubility in water: Preparation: The stock solution was prepared in cell culture suited water (25mg/ml).
Neomycin Sulfate	50-100 µg/ml	Stock Solutions: Solubility in water: 50 mg/ml Solubility in ethanol: 0.10 mg/ml Preparation: The stock solution was prepared in cell culture suited water (5mg/ml), then was diluted to the working concentration in water at pH of 7.8.
Cefotaxime(100X)	250-500 µg/ml	Stock Solutions: Solubility in water: Preparation: The stock solution was prepared in cell culture suited water (50 mg/ml).
Cephalothin(500X)	100 µg/ml	Stock Solutions: Solubility in water: Preparation: The stock solution was prepared in cell culture suited water (50 mg/ml).
Chloramphenicol (1000X)	30-50 µg/ml	Stock Solutions: Solubility in ethanol: Preparation: The stock solution was prepared in cell culture suited ethanol (50 mg/ml).
Erythromycin	100 µg/ml	Stock Solutions: Solubility: 30 mg/ml in Ethanol Solubility: 15 mg/ml in DMSO: Preparation: The stock solutions were prepared in cell culture suited DMSO (10 mg/ml), then were diluted to the working concentration in water at pH of 7.8.



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Name of Antibiotic	Recommended 100X Concentration	Preparation
G-418	100-250 µg/ml	Stock Solutions: Solubility: 10 mg/ml in water Preparation: The stock solution was prepared in cell culture suited water (10 mg/ml), then was diluted to the working concentration in water at pH of 7.8.
Gentamicin Sulfate	50 µg/ml	Stock Solutions: Solubility: Soluble in water Preparation: The stock solution was prepared in cell culture suited water 10 mg/ml, then was diluted to the working concentration in water at pH of 7.8.
Polymyxin B Sulfate	50 µg/ml 6,300-6,500 USP Units per mg	Stock Solutions: Solubility: In water: 210 mg/ml Preparation: The stock solution was prepared in cell culture suited water (1M Unit/ml), then was diluted to the working concentration in water in pH of 7.8.
Spectinomycin dihydrochloride pentahydrate	15-20 µg/ml	Stock Solutions: Solubility: In water: 50 mg/ml In methanol/DMSO (11 mg/ml) Preparation: The stock solution was prepared in cell culture suited water (5mg/ml), then was diluted to the working concentration in water in pH range of 7.8.
Tetracycline hydrochloride	10 µg /ml	Stock Solutions: Solubility: In water: 10 mg/ml In DMSO and methanol in 0.1 N HCl: 10 mg/ml Preparation: The stock solution was prepared in cell culture suited water (10 mg/ml). Then was diluted to the working concentration in water in pH range of 7.8.