



PurMa™ Antibiotic Guidelines

- Mammalian Cells (Eukaryotes)
- Concentration & Preparation Methods (100X Stock)

| Name of Antibiotic | Recommended 100X Concentration | Preparation |
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| Penicillin/Streptomycin (100X) | Penicillin: 10000 unit/ml Streptomycin: 10 mg/ml | Stock Solutions: Solubility: Both soluble in water Penicillin: 1M unit /ml Streptomycin: 50 mg/ml Preparation: The stock solutions were prepared in cell culture suited water, then were diluted to the working concentration in water at pH of 7.8. |
| Penicillin/Streptomycin/Fungicide (100X) Low Fungicide | Penicillin: 10000 unit/ml Streptomycin: 10 mg/ml Fungicide (Amphotericin): 2.5µg/ml | Stock Solutions Penicillin: 1M unit /ml Streptomycin: 50 mg/ml Fungicide (Amphotericin): 2.5mg/ml Preparation: The stock solutions were prepared in cell culture suited water (Penicillin, Streptomycin) and in DMSO (Amphotericin), then were diluted to the working concentration in water at pH of 7.8. |
| Penicillin/Streptomycin/Fungicide (100X) High Fungicide | Penicillin: 10000 unit/ml Streptomycin: 10 mg/ml Fungicide (Amphotericin): 25µg/ml | Stock Solutions: Penicillin: 1M unit /ml Streptomycin: 50 mg/ml Fungicide (Amphotericin): 2.5mg/ml Preparation: The stock solutions were prepared in cell culture suited water (Penicillin, Streptomycin) and in DMSO (Amphotericin), then were diluted to the working concentration in water at pH of 7.8. |
| Penicillin/ Streptomycin/ Neomycin (100X) | Penicillin: 5000unit/ml Streptomycin: 5 mg/ml Neomycin:10 mg/ml | Stock Solutions: Penicillin: 1M unit /ml Streptomycin: 50 mg/ml Neomycin: 50 mg/ml Preparation: The stock solutions were prepared in cell culture suited water, then were diluted to the working concentration in water at pH of 7.8. |



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| Amphotericin B | 2.5 µg /25 µg/ml | <p>Stock Solutions: Solubility in water: Soluble at very acidic conditions (pH 2) or in very alkaline solutions (pH 11) Solubility in DMSO: soluble 30–40 mg/ml</p> <p>Preparation: The stock solution was prepared in cell culture suited DMSO (2.5 mg/ml). Then was diluted to the working concentration in water at pH of 7.8.</p> |
| Dihydrostreptomycin sesquisulfate | 100 µg/ml | <p>Stock Solutions: Soluble in water.</p> <p>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.</p> |
| Erythromycin | 100 µg/ml | <p>Stock Solutions: Solubility: 30 mg/ml in Ethanol Solubility: 15 mg/ml in DMSO:</p> <p>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.</p> |
| G-418 | 100-250 µg/ml | <p>Stock Solutions: Solubility: 10 mg/ml in water</p> <p>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.</p> |
| Gentamicin Sulfate (1000X) | 50 µg/ml | <p>Stock Solutions: Solubility: Soluble in water</p> <p>Preparation: The stock solution was prepared in cell culture suited water 50 mg/ml, then was diluted to the working concentration in water at pH of 7.8.</p> |
| Neomycin Sulfate | 50-100 µg/ml | <p>Stock Solutions: Solubility in water: 50 mg/ml Solubility in ethanol: 0.10 mg/ml</p> <p>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.</p> |



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| Nystatin | 50 µg/ml | <p>Stock Solutions: Solubility Insoluble in water: Soluble in Methanol: 11.2 mg/ml</p> <p>Preparation: The stock solution was prepared in cell culture suited Methanol (5mg/ml), then was diluted to the working concentration in water at pH of 7.8.</p> |
| Paromomycin Sulfate | 100 µg/ml | <p>Stock Solutions: In water: 50 mg/ml</p> <p>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.</p> |
| Penicillin-G (potassium salt) | 10,000 | <p>Stock Solutions: Solubility: In water: 210 mg/ml</p> <p>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.</p> |
| Penicillin-G (Sodium salt) | 10,000 | <p>Stock Solutions: Solubility: In water: 210 mg/ml</p> <p>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.</p> |
| Phenoxymethylpenicillanic Acid (potassium salt) (Penicillin V) | 10,000 | <p>Stock Solutions: Solubility: In water: 210 mg/ml</p> <p>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.</p> |
| Polymyxin B Sulfate | 50 µg/ml 6,300-6,500 USP Units per mg | <p>Stock Solutions: Solubility: In water: 210 mg/ml</p> <p>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.</p> |



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| Spectinomycin dihydrochloride pentahydrate | 15-20 µg/ml | <p>Stock Solutions: Solubility: In water: 50 mg/ml In methanol/DMSO (11 mg/ml)</p> <p>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.</p> |
| Streptomycin sulfate | 5-10 mg/ml | <p>Stock Solutions: Solubility: In water: 50 mg/ml</p> <p>Preparation: The stock solution was prepared in cell culture suited water (50 mg/ml), then was diluted to the working concentration in water in pH range of 7.8.</p> |
| Tetracycline hydrochloride | 10 µg /ml | <p>Stock Solutions: Solubility: In water: 10 mg/ml In DMSO and methanol in 0.1 N HCl: 10 mg/ml</p> <p>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.</p> |
| Tylosin Tartrate | 1 µg /ml | <p>Stock Solutions: Solubility: In water: Soluble</p> <p>Preparation: The stock solution was prepared in cell culture suited water (1 mg/ml). Then was diluted to the working concentration in water in pH range of 7.8.</p> |