

Antibiotics

Antibiotics Working Concentrations

| Antibiotics | E.coli | Scerevisiae | Yeast | Mammalian | Insect |
|-----------------|--------------|--------------|---------------|--------------------------|---------------|
| Actinomycin | | | | 2-5 µg/ml | |
| Ampicillin | 25-100 µg/ml | | | | |
| Blasticidin | 50 µg/ml | 5-100 µg/ml | | 2-25 µg/ml | 10-80 µg/ml |
| Carbenicillin | 10-50 µg/ml | | | | |
| Chloramphenicol | 25-170 µg/ml | | | | |
| Gentamicin | 5-50 µg/ml | | | 35 µg/ml | 10 µg/ml |
| Hygromycin | 20-200 µg/ml | 50 µg/ml | | 50-200 µg/ml | |
| Kanamycin | 10-50 µg/ml | | 10-50 µg/ml | | |
| Neomycin | | | 200-300 µg/ml | 50-2500 µg/ml | 500-700 µg/ml |
| Spectinomycin | 100 µg/ml | | | | |
| Streptomycin | 50-100 µg/ml | | | | |
| Tetracycline | 10-50 µg/ml | | | 1 µg/ml for induction | |
| Zeocin | 25-50 µg/ml | 50-300 µg/ml | | 5-50 µg/ml | 300-600 µg/ml |

Stock Solutions

| | Stock Solution Conc. (mg/ml) & Storage Temp. | | Working Concentration : | | | |
|-----------------|---|--------|-------------------------|-----------|--------------|---------------|
| | | | Strict Control | | Weak Control | |
| | | | µg/ml | Dilution | µg/ml | Dilution |
| Ampicillin | 50 (H ₂ O*) | -20°C | 20 | 0.4 µl/ml | 60-125 | 1.2-2.5 µl/ml |
| Carbenicillin | 50 (H ₂ O, 50%EtOH) | -20°C | 20 | 0.4 µl/ml | 60-200 | 1.2-4 µl/ml |
| Chloramphenicol | 34 (EtOH, MeOH) | -20°C | 25 | 0.7 µl/ml | 170 | 5 µl/ml |
| D-cycloserine* | 10 (0.1M NaP pH8.0) | +4°C | 200 | 20 µl/ml | | |
| Gentamycin | 10 (H ₂ O) | -20°C | 15 | 1.5 µl/ml | | |
| Hygromycin B | 10 (H ₂ O) | -20°C | 10 | 1 µl/ml | 400 | 40 µl/ml |
| Kanamycin | 50 (H ₂ O) | +4°C ~ | 10 | 0.2 µl/ml | 50 | 1 µl/ml |
| | | -20°C | | | | |
| Kasugamycin | 10 (H ₂ O) | -20°C | 1000 | 100 µl/ml | | |
| Nalidixic acid | 5 (H ₂ O, pH11 /NaOH) | -20°C | 15 | 3.0 µl/ml | | |
| Neomycin | 10 (H ₂ O) | -20°C | 100 | 10 µl/ml | 800 | 80 µl/ml |
| Rifampicin** | 34 (MeOH) | -20°C | 150 | 4.4 µl/ml | | |
| Spectinomycin | 10 (H ₂ O) | -20°C | 100 | 10 µl/ml | | |
| Streptomycin | 50 (H ₂ O) | -20°C | 10 | 0.2 µl/ml | 50 | 1 µl/ml |
| | | | | | 50 | 10 µl/ml |
| Tetracycline*** | 5 - 12.5 (70%EtOH) | -20°C | 10 | 2.0 µl/ml | 50 | 10 µl/ml |
| | | | | | 100 | 20 µl/ml |

* - Unstable solution, prepare just before use;

** - Light sensitive;

*** - Light sensitive, Mg²⁺ - inhibitor;