ANTIBIOTICS

Ampicillin

Stock solution. 25 mg/ml of the sodium salt of ampicillin in water. Sterilize by filtration and store in aliquots at −20°C.

Working concentration. 35–50 μg/ml.

Chloramphenicol

Stock solutions. 34 mg/ml in 100% ethanol. Store at −20°C.

Working concentration. For amplification of plasmids, 170 μg/ml; for selection of resistant bacteria, 30 μg/ml.

Kanamycin

Stock solution. 25 mg/ml in water. Sterilize by filtration and store in aliquots at −20°C.

Working concentration. 50 μg/ml.

Nalidixic Acid

Stock solution. 20 mg/ml in water. Sterilize by filtration and store in aliquots at −20°C.

Working concentration. 20 μg/ml.

Streptomycin

Stock solution. 20 mg/ml in water. Sterilize by filtration and store in aliquots at −20°C.

Working concentration. 25 μg/ml.

Tetracycline

Stock solution. 12.5 mg/ml tetracycline hydrochloride in ethanol/water (50% v/v). Store at −20°C.

Note. Because tetracycline is light-sensitive, solutions and plates containing the antibiotic should be stored in the dark.

Working concentration. 12.5–15.0 μg/ml. Magnesium ions are antagonists of tetracycline. Use media without magnesium salts (e.g., LB) for selection of bacteria resistant to tetracycline.