ANTIBIOTICS

Ampicillin

*Stock solution.* 25 mg/ml of the sodium salt of ampicillin in water. Sterilize by filtration and store in aliquots at $-20^\circ$C.

*Working concentration.* 35–50 $\mu$g/ml.

Chloramphenicol

*Stock solutions.* 34 mg/ml in 100% ethanol. Store at $-20^\circ$C.

*Working concentration.* For amplification of plasmids, 170 $\mu$g/ml; for selection of resistant bacteria, 30 $\mu$g/ml.

Kanamycin

*Stock solution.* 25 mg/ml in water. Sterilize by filtration and store in aliquots at $-20^\circ$C.

*Working concentration.* 50 $\mu$g/ml.

Nalidixic Acid

*Stock solution.* 20 mg/ml in water. Sterilize by filtration and store in aliquots at $-20^\circ$C.

*Working concentration.* 20 $\mu$g/ml.

Streptomycin

*Stock solution.* 20 mg/ml in water. Sterilize by filtration and store in aliquots at $-20^\circ$C.

*Working concentration.* 25 $\mu$g/ml.

Tetracycline

*Stock solution.* 12.5 mg/ml tetracycline hydrochloride in ethanol/water (50% v/v). Store at $-20^\circ$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 $\mu$g/ml. Magnesium ions are antagonists of tetracycline. Use media without magnesium salts (e.g., LB) for selection of bacteria resistant to tetracycline.