Antibiotic Sensitivity
Carolina BioKit

Introduction: Antibiotics are chemicals produced by certain microorganisms that effectively inhibit other microorganisms. During this lab, students study the effect of six different antibiotics on a gram-positive bacterium, *Bacillus cereus*, and a gram-negative bacterium, *Escherichia coli*. The materials supplied in the Classroom Kit are sufficient for a class of 30 students working cooperatively in 10 groups of 3.

Materials:

- Order Form for the following perishable items:
  Bacillus cereus broth culture
  Escherichia coli broth culture

- 6 vials of antibiotic disks (50 of each disk)
- 30 white control disks
- Four 125 mL bottles Nutrient agar
- 20 Sterile Petri Dishes
- 11 Forceps
- Autoclave disposal bag
- Techniques for studying bacteria and fungi manual
- Teacher's Manual and reproducible Student Guide

Needed, but not supplied:

- Metric Rulers
- Labeling markers
- Water bath with thermometer (or pan of boiling water)
- Bunsen Burners
- Heat-resistant glove (for hot agar bottles)
- paper towels
- Gloves (can be requested)
- Incubator (optional)
- Disinfectant (e.g. 70% ethanol or 10% bleach)