

EQUIPMENT

The Ramsey laboratory is fully prepared to perform the proposed experiments. For bacterial cell culture, equipment available for use includes shaking and static incubators, autoclave for media sterilization, an electroporator, spectrophotometer, and laminar flow biological safety cabinets. DNA and protein analysis tools include a thermocycler for amplification of DNA, a Nanodrop, power supplies, electrophoresis units, immunoblot transfer apparatus, a transilluminator with a digital camera, and a Biocomp Gradient Station. Additional equipment in the laboratory include a ThermoFisher 4R Pro-MD refrigerated centrifuge, microcentrifuges, scales, water baths, shakers, pipettors, and -20°C and -80°C freezers. Also available for use are film developers and digital imagers for exposure of immunoblots, a Beckman floor model Optima preparative ultracentrifuge, Sorvall centrifuges, a French press for cell lysis, microplate readers, a reverse osmosis water filtration system, and cold room space.