



Lab equipment

Essentials

Lab tables
Lab freezer (-20)
Storage cabinets
Cabinet for chemicals
Cabinet for acids
(Micro)pipettes
Micro centrifuge
Table top centrifuge
Refrigerator
Sterilization equipment
Bunsenburner (w/ natural gas supply)
Balance
pH meter
Magnetic stirrer
Large sink
PCR machine
DNA Electrophoresis unit
Transilluminator
Nanodrop
Vortex
Autoclave (waste cleaner)
Safety lab coats, gloves and goggles
Set of tools: spoons, blades etc.
Set: Boxes, bowls and cylinders
Glass: flasks, glass tubes, bottles, jars

Nice to have

Lab freezer (-80)
Laminar flow hood
Fume hood
(CO₂) incubators
Microscope
Ultracentrifuge
Water baths
Ice machine
HPCL
Flowcyto meter
Spectrometer
Fluorescence microscope
Cryopreservation equipment (liquid nitrogen)
Water purification
Multi channel micropipettes
Emergency power generator
Realtime - PCR machine
Analytical balance
Gel Dryer
Water Bath Shaker
Ultrasonic bath
Freestanding Glassware Washer Dryer
DNA sequencing machine
DNA synthesis machine
Western blotter

Protein Electrophoresis unit

Lab consumables

Essentials

Eppendorf tubes
Culture tubes
Waste containers
Pasteur pipettes
Sterilization filters
Pipette tips
Plates
Test tubes (sterile single use)
Microscope slides
Kanamycin
Ampicilin
Tetracyclin
Chloramphenicol
Agarose
LB Broth
5kb and 1kb DNA ladder
Calcium chloride (CaCl₂)
Ethyl alcohol (ethanol)
TAE
Hydrochloric acid (HCl)
Sodium hydroxide (NaOH)
Potassium phosphate (K₂HPO₄)
Sodium phosphate (Na₂HPO₄)
Ammonium Chloride ((NH₄)Cl)
Magnesium Sulfate (MgSO₄)
Sodium Acetate (NaAc)
Sodium Acetate Trihydrate (NaAc₃H₂O)
Acetic Acid (HAc)
Sucrose
Ethylenediaminetetraacetic acid (EDTA)
MOPS
anhydrous Tris
Glucose
Sodium dodecyl sulfate (SDS)
Magnesium chloride hexahydrate
Magnesium chloride
Sodium chloride (NaCl)
Potassium chloride (KCl)
PCR tubes
Taq polymerase
T4 DNA Ligase Kit (Fermentas)
SYBR Safe
Disposable gloves
Disposable towels
Disposable cotton and cotton tips
Parafilm
Lactose
Saccharose

IPTG

Yeast extract
Spore elements
Bradford reagents
Glass beads
PCR kit (Qiagen)
Mini prep isolation kit
Enzymes: RNAse A, ProtK, lysozyme
Restriction Enzymes: EcoRI, XbaI, SpeI, PstI
Cells: E. coli Top10, DH5a or K12

Nice to have

Tripsine
(D) MEM
PBS
Pen/strep antibiotics
Bromophenol Blue
Coomassie Brilliant Blue
Dimethyl sulfoxide (DMSO)
Glycerol
Isopropyl alcohol (isopropanol, IPA)
Pfu Taq Turbo
D(+)-mannose
Triton X-100
Seringe and needles
Acrylamide/Bis-acrylamide
ammonium persulfate (APS)
TEMED
Glycine
Tris-HCl
Dithiothreitol, or beta-mercapto-ethanol
Glycoblue
Acid-phenol
Chloroform
2-propanol
Citrate
Formaldehyde
Casein