



replenish.  
renew.  
restart.

## Essential Lab Supplies and PPE Checklist

**Return to work confidently** with the lab supplies and PPE you need to help you stay safe and productive. Whether you're just getting started again or continuing to pursue highly relevant research, we look forward to serving you.

# Life Sciences

## PCR

- Primers and oligos

## Polymerases

- Direct PCR
- High fidelity
- Hot start
- Long PCR
- Standard Taq

## Thermal Cycler

- 24 well
- 96 well
- 384 well
- Automated
- Multiblock

## Electrophoresis

- Agarose
- DNA ladders
- Horizontal gel system
- Loading buffer

## PCR Plastics

- 96-well plates
- 384-well plates
- Barcoded or custom plates
- Individual tubes
- PCR tube strips
- Strip tubes
- Thin-wall PCR tubes

## Other

- Automated purification instrument
- DNA and RNA purification kits
- dNTPs
- Dye cleanup kit
- Handheld magnetic separation device
- Master mixes
- PCR cleanup kit
- PCR hood
- Reverse transcriptase (RT) kits

## qPCR and Real-Time PCR

- dNTPs
- qPCR plates and tubes
- qPCR polymerase
- Reverse transcriptase
- Sealing film

## Real-Time Thermal Cycler

- 24 well
- 96 well
- 384 well
- Automated
- Multiblock

## Cell Culture and Analysis

### Collection

- Antibiotics
- Biological safety cabinet
- Cell culture media
- Cell culture serum
  - Heat-inactivated FBS
  - Specialty FBS
  - Standard FBS
- Cell culture water
- Cell scrapers and lifters
- Classical media
- CO<sub>2</sub> incubator
- Conical tubes
- Cryogenic vials
- Cryostorage system
- Dissociation reagents
- Extracellular matrices
- Incubated shaker
- Laminar flow hood
- Roller bottles
- Serological pipets
- Specialty media (stem cell, neurobiology, etc.)
- Spinner flasks
- Supplements
- Tissue culture flasks and plates
- Trypsin

### Preparation

- Biological safety cabinet
- Cell stains (live and dead)
- Laminar flow hood
- Microplate washer
- Multi-well assay plates
- Permeable microplate support inserts
- Pipettes and tips
- Tissue culture flasks
- Trypan blue

## Analysis

- Cell counter
- Cell signaling and analysis kits (apoptosis, kinase phosphatase)
- Microplate reader (luminescent, fluorescent)
- Microscope (inverted, fluorescent)
- Microscope slides
- Primary and secondary antibodies
- Spectrophotometer
- Stains/dyes

## Protein Electrophoresis

- Acrylamide
- Concentrators
- Coomassie stain
- Dialysis tubing and cartridges
- Extraction kits
- Power supply
- Precast gels
- Protein ladders
- Running buffer (or components)
- Sample buffers
- Silver stain
- TEMED
- UV-Vis unit
- Vertical gel system

## Microbiology

- Antibiotics
- Competent cells
- Petri dishes
- Shaker flasks

## Western Blotting

- Automated staining/antibody unit
- Benchtop shaker
- Blocking solution
- Chemiluminescent solution
- Film
- Forceps
- Imager
- Methanol
- Primary and secondary antibodies
- Staining boxes
- Transfer buffer (or components)
- Transfer membrane
- Transfer unit

## Chemicals

### Air-Sensitive and Anhydrous Solvents

- Alkyl lithium reagents
- Anhydrous solvents
- NMR solvents

### Buffers

- Biological and homemade buffers
- Goods buffers
- Life sciences buffers
- Saline-based buffers

### Chemicals for Chromatography

- Acetone
- Acetonitrile
- Methanol
- PCR-grade water
- Reference Standards
- Water
- Water blends

### Molecular Biology Reagents and Kits

- DNA reagents
- Nucleic acid labeling and detection
- RNA reagents

### Electrophoresis Reagents

- Electrophoresis gels
- Electrophoresis markers
- Gel stains and dyes
- Loading buffers (nucleic acid EPP)

### Enzymes

- Modifying enzymes
- Restriction enzyme buffers
- Restriction enzymes

### Peroxide-Forming Crystal Chemicals and Testing

- 2-propanol
- Butadiene
- Chloroprene
- Diethyl ether
- Divinylacetylene
- Isopropyl ether
- pH tests strips (to help detect peroxides in existing chemicals)
- Tetrafluoroethylene
- THF
- Vinylidene chloride
- Other secondary alcohols

### Anhydrous Chemicals

- Drying agent
- Salts

### Histology Reagents

- Dyes
- Paraffin
- Stains
- Xylene

## Electrochemistry

### General Electrochemistry

- Buffers
- Electrodes
- Meters
- Solutions
- Standards

## Equipment

### General Equipment

- Biosafety cabinets
- Centrifuges
- Furniture
- Glassware
- Hotplates and Stirrers
- Incubators
- OHS stirrer
- Ovens
- Rockers, mixers, and shakers
- ULT, Refrigerators and Freezers
- Vortex mixer

### Maintenance

- Calibration services
- Instrument monitoring

# Safety

## Personal Protective Equipment

### Apparel

- Chemical-resistant sleeve covers
- CR/FR aprons
- Gloves
- Lab coats

### Eye and Face Protection

- Disposable face shields
- Goggle dispenser
- OTG goggles
- Reusable face shields
- Safety glasses

### Respiratory Protection

- Disposable respirator
- Half-face respirator
- Protective disposable face masks

## Social Distancing Aids

- "Caution: Face Mask Required" sign
- "Caution: Gloves Required" sign
- "Please Keep About 6 Feet (2 m) Distance" floor marking tape
- "Prevent the Spread of Coronavirus (COVID-19)" sign
- "Social Distancing Maintain About 6 Feet (2 m) Distance" sign
- "Thank You for Practicing Social Distancing" floor sign
- "Thank You for Practicing Social Distancing" sign
- "Warning Coronavirus COVID-19 Quarantine Area Keep Out" sign
- "Warning Quarantine Area Keep Out" sign
- Mobile partition shield panels
- Shared desk divider mobile partition shield panels
- Warning chains
- Warning systems

## Hand Sanitation

- Biohazard waste can
- Floor stand with dispenser
- FM-approved biohazard waste container replacement bags
- Hand sanitizer
- Touch-free hand sanitizer dispenser
- "Please Use Hand Sanitizer Before Entering" COVID-19 sign
- "Please Wash Hands for 20 Seconds" COVID-19 sign

## Disinfection Products

- Cut-end cotton mops
- Foam blade squeegee
- High-performance mopping systems
- Looped-end mop
- Professional surface disinfectant
- Wet-mop handles

## Temperature Checks

- Infrared forehead thermometer
- Temperature monitoring kiosk

## Other Safety Products

- Anti-fatigue and slip matting
- Carts
- Eyewash station
- First aid/burn kit
- Flammable storage cabinets and chemical storage
- Label maker
- Sharps and glassware disposal
- Spill control
- Training

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