



Teaching Labs Benchtop Essentials

This guide provides a concise overview of the necessary equipment and tools for mixing, shaking, visualising, and analysing in teaching labs. We have curated a selection of high-quality products that prioritise functionality, accuracy, and student safety. Our goal is to support your educational endeavors by offering reliable tools that foster curiosity and scientific exploration.

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Mix and Shake

fisherbrand

Fisherbrand™ Mini-Centrifuge



16617645



- Locking lid
- Larger lid to accommodate longer, skirted tubes and taller tube lids
- Weighted rubberized base eliminates potential movement and further dampens vibration and noise
- Ideal for microfilter cell separations and HPLC samples, with adapters to accommodate all major microtube and PCR tube styles (1.5/2.0, 0.5, 0.2mL)
- Can be easily cleaned

Includes:

- Two rotors, tube rack, storage case, O-rings, tube adapters and low voltage, double insulated power adapter with four interchangeable plugs

Capacity:

- 6 x 1.5/2mL Tubes, 2 places for 8 x 0.2mL Strips or 16 Single Tubes

Cat. No.	Description	Dimensions (H x W x D)
16617645	Fisherbrand™ Mini-Centrifuge 100-240V, 50/60Hz Universal Plug, Grey	104 x 128 x 153 mm

fisherbrand

Fisherbrand™ ARE 5 Hot Plate Stirrer



17882017

- Reliable and robust
- Insulating disk to protect internal parts
- 135 mm diameter aluminium alloy top plate ensures great temperature homogeneity and optimum heat transfer across the entire surface
- Two illuminated indicators always inform the operator when the heating is on and the temperature is above 50°C
- Stirs up to 15 L from 100 to 1500 rpm
- Brushless motor ensuring power and resistance over time

Cat. No.	Description	Dimensions (L x W x H)
17882017	Fisherbrand™ ARE 5 Hot Plate Stirrer	160 x 270 x 85 mm

Mix and Shake

fisherbrand



15594060

Fisherbrand™ Multi-Platform Shaker

- Provides a smooth, quiet, horizontal orbital motion for mixing in bottles, flasks and beakers
 - Variable shaking speed: 50 to 450rpm
 - Load bearing capacity up to approx 4.49kg
 - Continuous or timed operation with automatic switch-off
 - Simple set up and easy to operate
 - Low voltage power supply provides for safe cold room operation and low energy consumption
 - Operating temperature range of 5 to 40°C allows for use in cold rooms, refrigerators or non-CO₂ incubators
- Accessories:
- Various racks, mats and clamps

Cat. No.	Description	Dimensions (L x W x H)
15594060	Fisherbrand™ Multi-Platform Shaker, EU, UK, CN Plug	415 x 293 x 120 mm

fisherbrand



13214789

Fisherbrand™ ZX3 Vortex Mixer

- Variable speed operation, electronically controlled up to 3000rpm
- Automatic start in touch mode or continuous operation
- Large choice of accessories to suit tubes, plates and flasks
- Universal voltage / frequency model
- Accessories fit by simple pressure
- Optimum resistance to chemicals from technopolymer casing
- Excellent stability with zinc alloy base
- Large, anti-slip rubber feet for staying in required position
- IP 42 protection against particles and liquids



12365107 11792573 11712583 11792583



11702593 11722583 11840992

Cat. No.	Description
13214789	Fisherbrand™ ZX3 Vortex Mixer
Accessories	
12365107	Fisherbrand™ Foam Stands for Vortex Mixer, holds 19 microtubes
11792573	Fisherbrand™ Customizable Foam Stand for Vortex Mixer
11712583	Fisherbrand™ Foam Stands for Vortex Mixer, holds 16 mm tubes
11792583	Fisherbrand™ Foam Stand for Microtiter Tubes
11702593	Fisherbrand™ Supporting Plates for Vortex Mixer, 50 mm dia.
11722583	Fisherbrand™ Supporting Plates for Vortex Mixer, 94 mm dia.
11840992	Fisherbrand™ Foam Stands for Vortex Mixer, holds 29 mm tubes

Mix and Shake

fisherbrand

Fisherbrand™ Compact Digital Overhead Stirrer

- Compact overhead stirrer, ideal for continuous, general purpose mixing
- Speed 40 to 2000rpm
- Stirring capacity 25L
- Viscosity 15,000cps



15203807



11920305



12917106



11984985

Cat. No.	Description
15203807	Fisherbrand™ Compact Digital Overhead Stirrer
Accessories	
11920305	Caframo™ Square Blade Impeller
12917106	Caframo™ Crossed Blade Impeller
11984985	Caframo™ Compact Stand for Overhead Stirrers

fisherbrand

Fisherbrand™ 150 Homogenizer Package

- Processes laboratory samples, from 200µL to 100mL
- Powerful 150W motor
- Lightweight ergonomic design
- Quiet operation, under 72db
- Available with disposable generator probes (adapter for use is included)
- Cross-contamination can be completely eliminated with the use of plastic generator probes
- Stainless steel generator probes are recommended for larger and tougher samples



15585809
(EU plug)

15595809
(UK plug)

Includes:

- Motor unit, base clamp plinth, one plinth set and 5 mm, 7 mm and 10 mm probes

Cat. No.	Description
15595809	Fisherbrand™ 150 Homogenizer Package, UK plug
15585809	Fisherbrand™ 150 Homogenizer Package, EU plug

Mix and Shake

fisherbrand

Fisherbrand™ Model 120 Sonic Dismembrator



12337338
12347338 (with stand and clamp)

- Programmable system for effective cell lysis
- Consistent and reproducible results
- Processes 0.2 – 50 mL
- Programmable from 1 second to 10 hours
- Overload protection
- Pulse mode (1 second to 59 seconds)
- Energy display (watts and Joules)

Probe options for direct sonication of samples up to 50 mL:

- 12921181: Tip diameter 2 mm (5/64") Processing Volume 0.2 mL to 5 mL
- 12911181: Tip diameter 3 mm (1/8") Processing Volume 0.5 mL to 15 mL
- 12931181: Tip diameter 6 mm (1/4") Processing Volume 5 mL to 50 mL

Cat. No.	Description
12337338	Fisherbrand™ Model 120 Sonic Dismembrator
12347338	Fisherbrand™ Stand and Clamp for 120 Sonic Dismembrator

fisherbrand



11702656 (Tungsten)
15254878 (LED)

Fisherbrand™ ST-30C Series Rear-facing Stereo Microscope

- Designed and developed for the learning environment
- 45° Inclined rear-facing binocular head with diopter adjustment on left eyetube
- Widefield eyepieces 10X/20 mm
- 2X/4X magnification changer
- Objectives are parfocal, parcentric and achromatic. Magnification is changed by turning the turret 180° to the click stop
- Heavy-duty rack and pinion focusing block with slip clutch
- Supplied standard with 80 mm stage plates (Frosted glass, black and white)

Cat. No.	Description	Lighting Type
11702656	Fisherbrand™ ST-30C Series Rear-facing Stereo Microscope	Tungsten
15254878	Fisherbrand™ ST-30C Series Rear-facing Stereo Microscope	LED

fisherbrand



15388824

Fisherbrand™ AX-500 Series Compound Research Microscope

- Choice of optical objectives: 4x, 10x, 40x, 100x Achromat, Super high contrast and Plan achromat
- Monocular, binocular, or trinocular (permits attachment of a digital camera)
- Ergonomically designed, professional frame with low position coaxial focusing allows one handed operation, making extended use comfortable
- Adjustable 3W LED illumination with intensity control
- Built-in low drive mechanical stage with extended post for X and Y control (135 mm x 140 mm)
- 18 mm eyepieces with rubber eyeshields

Cat. No.	Objective Types	Head Style
15388824	DIN Achromatic	Monocular
15378834	DIN Plan Achromatic	Trinocular
15308834	DIN Achromatic	Trinocular
15398824	DIN Achromatic	Binocular
15358834	DIN Plan Achromatic	Binocular

interscience
for microbiology



17838159

Scan 50 – Colony Counter

- Manual, easy-to-use
- Compatible with Petri dishes (55 x 90 mm), Petrifilm™, MC-media Pads™, Compact Dry™, easyPlate™, filtration membranes
- Compatible with all types of media
- Counting is done by a simple touch pressure and is then recorded
- Count from 0 to 1999 CFU
- Data export via USB, LIMS, under CSV format (Excel™) or text format (Word™)

Cat. No.	Description
17838159	Scan 50 Colony counter

SYNGENE
A DIVISION OF THE SYNOPSIS GROUP



16544331

Syngene™ Blue LED Transilluminator

- For use on a benchtop
- Most popular type of lighting source for teaching labs
- Can be used with majority of commonly used dyes for DNA imaging
- No risk of UV damage to users or samples

Cat. No.	Description
16544331	Syngene™ Blue LED Transilluminator

SYNGENE
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17922952

Syngene™ NuGenius XE

- Standalone photodocumentation system
- Easy to use
- Locked down so students cannot corrupt other people's work
- Saving to USB
- Small Footprint
- Networking capabilities

Cat. No.	Description
17922952	Syngene™ NuGenius XE

fisherbrand



15268638

Fisherbrand™ Elite Pipette Kit

- 4 adjustable-volume pipettes and a stand
- Popular pipette sizes (0.2-2 µL, 2-20 µL, 20-200 µL, 100-1000 µL)
- Compatible with universal fit pipette tips

Cat. No.	Description
15268638	Fisherbrand™ Elite Pipette Kit

fisherbrand



Fisherbrand™ SUB-GEL Teaching Horizontal Gel Tank Package

- Saves bench space, time and cost; teachers are able to demonstrate horizontal gel electrophoresis to multiple students using just a single gel tank and power supply
- High-quality injection moulded construction
- Leak free 'Plug-and-Go' casting dams
- UV transparent gel trays
- Height adjustable combs
- Economic low gel and buffer volumes
- Cassette-style electrodes — difficult to break, easy to change
- Each tank is available with or without power supply
- 15341357: SUB-GEL 4X 70 mm x 70 mm gel trays, maximum samples 64
- 15321357: SUB-GEL 6X 70 mm x 70 mm gel trays, maximum samples 96

Cat. No.	Includes
15341357	Four 70 mm x 70 mm UV trays, eight 8 sample combs, eight casting dams, loading guides and cables
15321357	Six 70 mm x 70 mm UV trays, twelve 8 sample combs, twelve casting dams, loading guides and cables

fisherbrand

Fisherbrand™ Power Supply, Mini 300V Plus



12643546

- Enhanced built-in safety features
- Three-digit LED display
- Alarm function
- Wipe clean polycarbonate housing
- Ultra compact and economic
- User-friendly menus facilitate easy setup
- Two pairs of parallel power terminals
- Adjustable in 1V and 1mA increments

Cat. No.	Description
12643546	Fisherbrand™ Power Supply, Mini 300V Plus

fisherbrand

Fisherbrand™ accumet™ FE150 Benchtop pH Meter



17741739

- Efficient sample reading and recording
- pH and temperature or mV and temperature simultaneously
- One to five point pH calibration
- Automatic buffer recognition with two pH buffer sets
- pH slope and offset display
- One point mV calibration
- One point ATC temperature probe calibration
- Automatic or manual temperature compensation
- Ready icon to indicate measurement stability
- Electrode condition icon to indicate status
- 100 data set storage with non-volatile memory

Includes:

- Meter, double junction pH electrode, temperature probe and stand

Cat. No.	Description
17741739	Fisherbrand™ accumet™ FE150 Benchtop pH Meter



15541182



thermo scientific

Thermo Scientific™ GENESYS™ Visible Spectrophotometer

- Durable, robust design with washable sample compartments
- Flexible data export options
- Wi-Fi ready—save data and methods, print results from local control

Genesys 30 (Vis)

- Tactile rubber keypad and 5" colour screen
- Easy to Teach, Easy to Learn onboard software
- Supports the use of cuvettes and test tubes
- Pre-aligned user replaceable lamps for quick and simple lamp replacement

Genesys 40 (Vis) / 50 (UV-Vis)

- Dual beam instruments featuring a 7" colour touchscreen
- On-board-controlled software with sophisticated methods including kinetics, advanced Quant and Peak Pick
- Supports the use of cuvettes and test tubes
- Pre-aligned user replaceable lamps for quick and simple lamp replacement (visible models only)

Cat. No.	Description	Wavelength Range
15541182	GENESYS 30 VIS Spectrophotometer with UK Power Cable	325 to 1100 nm
15531182	GENESYS 30 VIS Spectrophotometer with EU Power Cable	325 to 1100 nm
15889991	GENESYS 40 Visible Spectrophotometer with UK Power Cable	325 to 1100 nm
15879991	GENESYS 40 visible spectrophotometer with EU power cable	325 to 1100 nm
15800002	GENESYS 50 UV-Vis Spectrophotometer with UK Power Cable	190 to 1100 nm
15899991	GENESYS 50 UV-visible spectrophotometer with EU power cable	190 to 1100nm

thermo scientific



15856152

Applied Biosystems™ MiniAmp™ Thermal Cycler

- Small footprint - 19cm wide and 39cm deep
- Airflow front to back: to set multiple units side by side and save valuable bench space
- 5-inch intuitive color touchscreen: easy programming and training of new users
- Wi-Fi-enabled
- Capacity: 96-well, 0.2 mL
- Reaction speed: fast, standard
- Max ramp rate: 3°C/sec. (Block), 2.2°C/sec. (Sample)

Cat. No.	Description
15856152	Applied Biosystems™ MiniAmp™ Thermal Cycler

biochrom
a division of
Harvard Bioscience, Inc.



17978480

Biochrom Ultrospec™ 35c Colorimeter

- Ideal for basic colorimetric quantification, proof of concept and analysis in Life Sciences, Chemistry and Physics
- Read in Absorbable or Transmission, with the ability to perform basic kinetics function
- Robust LED light source at 450, 500, 520, 540, 600 and 640 nm
- Lightweight and portable, can be used on the bench, or in the field
- Easy to use touchscreen and data export to USB
- Wipe down to clean, and very minimal maintenance

Cat. No.	Description
17978480	Biochrom Ultrospec™ 35c Colorimeter



16610864



17101221



Biochrom Biowave

- UV and Visible wavelengths to cover all different practical sessions
- Small, lightweight and stackable for storage
- Traditional button version or with an icon driven touch screen
- Easy to use, quick to operate
- Robust
- Spill proof
- Instrument simulators available to help with class instruction and writing of practical methods
- Pre-loaded methods, or write and save your own
- 2 years warranty on instrument, 3 years on Xenon lamp
- No moving parts – virtually unbreakable

Cat. No.	Description
16610864	Biochrom Biowave 3
17101221	Biochrom WPA Biowave 3+ CT



Implen™ NanoPhotometer™ C40 Cuvette UV-VIS Spectrophotometer



15528783

- Optimized for all standard and micro-cuvettes – quartz, glass, or plastic (z-height of 8.5 mm)
- Standalone or remote operated (Windows, Mac, Android, and iOS)
- Only 20 x 20 x 12 cm footprint
- Ready to go into a glove box, under the hood, from lab bench to lab bench, or into the field (battery option)
- Nucleic acids (DNA, RNA, mRNA, Oogos, etc.) and proteins with QC ratios (260/280 and 260/230)
- Measure fluorescent dye-labeled nucleic acids and proteins using absorbance
- OD600, protein assays (Bradford, BCA, Biuret), and kinetics
- UV-Vis spectroscopy applications: wavelength, wavescan, standard curve, concentration, and absorbance ratio

Cat. No.	Description
15528783	Implen™ NanoPhotometer™ C40 Cuvette UV-VIS Spectrophotometer

Visit eu.fishersci.com for more information

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