



The Biotechnology Education Company®

**2013 - 2014
Resource Guide**



www.edvotek.com

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Biotechnology
Laboratory
Equipment

Technology Drives Biology

These days, advances in our understanding of biology are driven as much by advances in technology as in our ability to come up with new theories. The human genome project could not have happened until super fast DNA sequencing machines were developed nor could the data be interpreted until super fast computers were built. With advances in technology comes an ability to ask new questions.

Bring your students into this exciting world. Using the latest in molecular biology equipment, your classroom will be transformed into a state-of-the-art research lab!

See page 110

For information about our
EdvoCycler™ and MegaCycler™



What Are LabStations™?



LabStations™ are pre-selected packages that offer maximum value!

EDVOTEK® offers a variety of LabStations™ for all classroom sizes and budgets.

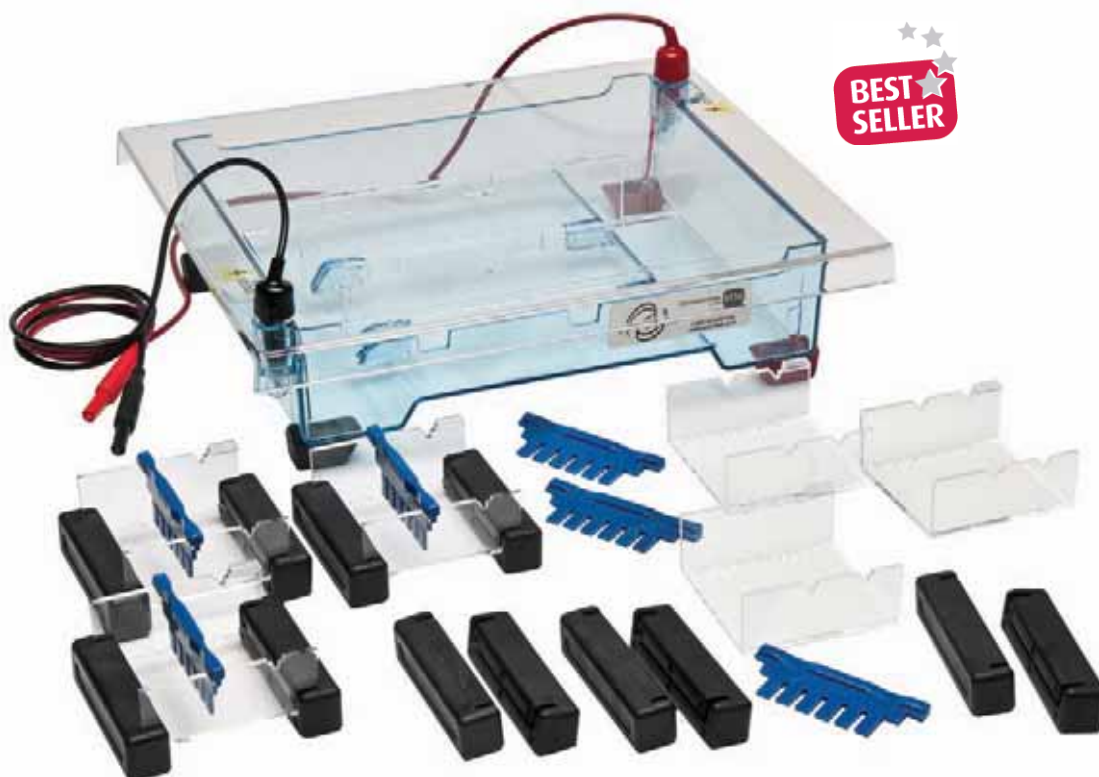
We also offer CUSTOM LabStations™ to suit your individual needs.

See pages 119-122 for more information or contact a BioEducation specialist at 1.800.EDVOTEK.

DNA Electrophoresis



**BEST
SELLER**



Features:

- Six 7 x 7 cm Trays
- Six 6-tooth combs
- Twelve rubber end caps

M36 HexaGel™ Electrophoresis Apparatus

DNA electrophoresis for your whole class with just a single gel tank! Six groups of students can load their own individual gels and the six gels are run together in 30-40 minutes giving excellent results! Eliminate cumbersome gel tray taping and pour gels quickly and easily with our innovative gel tray sealing rubber end caps. The M36 is backed by a lifetime warranty and free technical support.



For 6 Lab Groups



Cat. #515



Lifetime Warranty & Tech support!



M6Plus Electrophoresis Apparatus



Runs one group of student samples (or a classroom demonstration) in 30-40 minutes. Durable and easy to use! Excellent results every time!

M6Plus Features:

- One 7 x 10 cm Tray
- One 6 tooth comb
- One 8/10 tooth comb
- Two rubber end caps

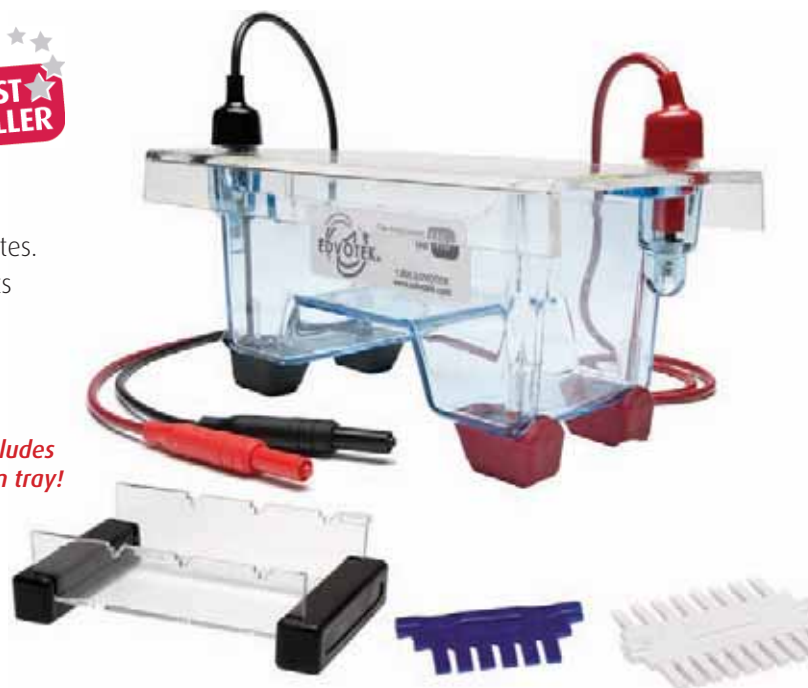


For 1 Lab Group



Cat. #500

*Now Includes
7 x 10 cm tray!*



Lifetime Warranty & Tech support!



M12



M12 Dual



M12 or M12 Dual Electrophoresis Apparatus

Run up to two groups of student samples at the same time. Choose either two 7 x 7 cm gel trays or one 7 x 14 cm gel tray. Gives excellent results in 30-40 minutes.

M12 Features:

- One 7 x 14 cm Tray
- Two 6 tooth combs
- One 8/10 tooth comb
- Two rubber end caps



For 2 Lab Groups



Cat. #502

M12 Dual Features:

- Two 7 x 7 cm Trays
- Two 6 tooth combs
- Two 8/10 tooth combs
- Four rubber end caps



For 2 Lab Groups



Cat. #504



Electrophoresis Accessories



E-Z Align™ Tray

7x7 cm tray with end caps
Cat. # 684



E-Z Align™ Tray

7x10 cm tray with end caps
Cat. # 686



E-Z Align™ Tray

7x14 cm tray with end caps
Cat. # 685



6 Tooth Comb

Cat. # 680



Double Comb 8/10

Cat. # 683



Gemini Split Tray™

Two 7x7 cm trays with end caps and two 6 tooth combs
Cat. # 535



Rubber End Caps

Cat. # 687

MV10 Vertical Protein Electrophoresis Apparatus

Designed for separation of proteins on polyacrylamide gels. The MV10 runs one vertical polyacrylamide gel. All parts are color coded to ensure proper orientation.



MV10 Features:

- Holds one gel cassette
- All platinum electrodes
- Safety interlock cover
- Safety electrical leads



For 1 Group



Cat. #581

Precast Polyacrylamide Gels

Cat. # 651

Three 12% precast gels
Requires refrigeration

Cat. # 652

Six 12% precast gels
Requires refrigeration



Power Supplies



DuoSource™ 75 75 V Power Supply

The DuoSource™ 75 power supply runs gels quickly in only 40-50 minutes! Can operate two M6Plus units, two M12 units or two HexaGels (at 75 V).

 75 V for 1 or 2 units

 Cat. #507



DuoSource™ 150 75/150 V Power Supply



The DuoSource™ 150 is a great value and runs gels quickly in only 20-30 minutes (at 150 V)! Can operate two M6Plus units, two M12 units or two HexaGels.

 75 /150 V for 1 or 2 units

 Cat. #509



TetraSource™ 300 30-300 V Power Supply

NEW

Power any combination of EDVOTEK electrophoresis units with this mighty 650 mA power supply! Features an easy-to-use, fully programmable interface for setting voltage, current or timer control with each parameter displayed in real-time. Programs may be paused or resumed at any point. Run experiments in the least time possible with this powerful and versatile unit!

 30-300 V for 1 to 4 units

 Cat. #5010




Our power supplies are made in the USA!

Pipets & Liquid Handling



Edvotek® Variable Micropipets

Our sturdy Variable Micropipets are designed with volumes ranging from 0.1 to 5000 µl. They are easy to use, highly accurate and use standard micropipet tips. The volume is easily selected by twisting the top. The lightweight design and tip ejector makes operation fast & easy. A tool and instructions are included for self-calibration.

-  **Cat. # 589-2** 0.1 - 2.5 µl Micropipet
- Cat. # 589** 0.5 - 10 µl Micropipet
- Cat. # 589-1** 2 - 20 µl Micropipet
- Cat. # 590** 5 - 50 µl Micropipet
- Cat. # 591** 10 - 100 µl Micropipet
- Cat. # 591-1** 20 - 200 µl Micropipet
- Cat. # 592-1** 100 - 1000 µl Micropipet
- Cat. # 593-1** 1000 - 5000 µl Micropipet



Lifetime Warranty



Pipet Stand

 For 6 Micropipets
Cat. # 796



Micropipet Tips



Ultra Micropipet Tips

0.5-10 µl, 2 racks of 96 each
Cat. # 635

0.5-10 µl, Bag of 1000 tips
Cat. # 635-B



Yellow Micropipet Tips

1-200 µl, 2 racks of 96 ea.
Cat. # 636

1-200 µl, Bag of 1000 tips
Cat. # 636-B



Micropipet Tips

200-1000 µl, 2 racks of 100 ea.
Cat. # 637

200-1000 µl, Bag of 1000 tips
Cat. # 637-B



Fine Tip Micropipet Tips

1-200 µl, 1 rack of 204
Cat. # 638

Jumbo Micropipet Tips

1000-5000 µl, Bag of 100 tips
Cat. # 637-2




Pipets & Liquid Handling



Fixed Volume MiniPipets™

Robust, accurate, easy to use, color coded, fun & cost effective micropipets which use standard micropipet tips. No need to calibrate and impossible to measure the wrong volume!

	Cat. # 585	5 µl MiniPipet
	Cat. # 586	10 µl MiniPipet
	Cat. # 586-1	20 µl MiniPipet
	Cat. # 587	25 µl MiniPipet
	Cat. # 587-1	30 µl MiniPipet
	Cat. # 587-2	35 µl MiniPipet

Cat. # 588	40 µl MiniPipet
Cat. # 588-1	50 µl MiniPipet
Cat. # 588-2	75 µl MiniPipet
Cat. # 588-3	100 µl MiniPipet
Cat. # 588-4	200 µl MiniPipet

**BEST
SELLER**



*Uses Standard
1-200 µl tips.*

EdvoPette™ Pipet Controller

The all-new EdvoPette™ Pipet Controller is a lightweight cordless pipetting controller ideally suited as an aliquoting tool for instructors and teaching assistants. It utilizes all standard serological pipets. The speed can be fine-tuned by applying varying finger pressure to the operating buttons.

 **Cat. # 594**



Transfer Pipets

 **Micro Transfer Pipets, Disposable**
Cat. # 632 400/pkg

Graduated 1 ml Transfer Pipets
Cat. # 647 200/pkg



Pumps & Pipets

 **Green Pipetting Pump (For pipets 5-10 ml)**
Cat. # 640

Blue Pipetting Pump (For pipets up to 2 ml)
Cat. # 641

1 ml Pipets, Disposable
Cat. # 644 200/pkg

5 ml Pipets, Disposable
Cat. # 645 50/pkg

10 ml Pipets, Disposable
Cat. # 646 50/pkg



PCR Equipment



EdvoCycler™

Finally, a PCR machine at an affordable price!



EdvoCycler™ has a 25 place block!

MegaCycler™

Classroom PCR Amplified!



MegaCycler™ has a 49 place block!

The EdvoCycler™ and the MegaCycler™ are stand alone classroom PCR machines that are easy to use! The EdvoCycler™ features a 0.2 ml tube block for up to 25 student samples and the MegaCycler™ has nearly twice that capacity with its 49-place block! Both come pre-programmed with all Edvotek PCR protocols. These programs may be modified or deleted, plus there's extra memory slots for more! The vivid 7-line LCD displays all program parameters on a single screen. A heated lid makes operation a snap. No oil is required. Proudly made in the USA and backed by a 2 year warranty!

Features:

- EdvoCycler™ holds 25 x 0.2 ml PCR tubes
- MegaCycler™ holds 49 x 0.2 ml PCR tubes
- Heated lid with magnetic latch
- No oil required
- Pre-programmed Edvotek PCR protocols
- Vivid 7-line LCD display with live program information
- Standalone machine - no PC required!
- Temperature Range: 4 to 99° C
- Maximum Ramp Rate: 3° C/sec.
- Dimensions: 16 x 8.5 x 7"



Research supported in part by NIH SBIR NCRR Grant #R44RR18670



EdvoCycler™

Holds 25 x 0.2 ml sample tubes.

Cat. #541

MegaCycler™

Holds 49 x 0.2 ml sample tubes.

Cat. #542



PCR reagents (tubes and PCR EdvoBeads™) are available on page 124.

Spectrophotometers



UNICO® S1000 Educational Spectrophotometer

The UNICO Model S1000 Educational Spectrophotometer is an economical visible light unit designed for educational laboratories. Featuring a wavelength range of 400-1000 nm, 20 nm bandpass, analog interface, digital display, transmittance and absorbance modes and a sample compartment that accepts round tube or square cuvettes (with included cuvette adapter). The S1000 also features built-in second order filters that can be manually changed to help students better understand spectroscopy. Includes a box of 12 round optical glass cuvettes, a square cuvette adapter, user's manual with experiments and dust cover. Now includes a USB port for data transfer to PC's.



Cat. #566



UNICO® S1200 Visible Spectrophotometer

The UNICO® Model S1200 Visible Spectrophotometer is the best value in a precise, accurate 5 nm design. Featuring a large, easy to read digital display, visible wavelength range of 335-1000 nm, 5 nm bandpass, an USB & RS-232C interface, Four modes: T = transmittance, A = absorbance, C = concentration & F = factor, auto-zero function and a sample compartment that accepts round tube or square cuvettes. The S1200 also features built-in automatic second order filters for quick and easy operation, and bulb changes require no tools or alignment. Includes a box of 12 round optical glass cuvettes, a set of two optical square glass cuvettes, user's manual and dust cover.



Cat. #567



UNICO® S2100UV+ UV/Vis Spectrophotometer

The redesigned UNICO® S2100UV+ UV/Vis Spectrophotometer offers an exceptional value with a wavelength range from 200-1000 nm, 4 nm bandpass, Ultraviolet (UV) light and the full visible wavelength range all in one machine. Featuring a large, 4-line LCD display which can be read from any angle, an USB & RS-232C interface and four modes: T = transmittance, A=absorbance, C = concentration & F = factor, auto-zero function and a sample compartment that accepts round tube or square cuvettes. The compartment can accept cuvettes up to 100 mm in path length. Optional software expands the capabilities to Abs, %T, DNA/Protein ratio and wavelength scanning. Includes a set of four 10 mm square optical glass cuvettes, a set of two 10 mm UV transparent quartz cuvettes, user's manual and dust cover.



Cat. #568

Gel Visualization



White Light Box

The White Light Box features a spacious 21.5 x 29 cm viewing area and is designed to visualize DNA stained with FlashBlue™ or proteins stained with Coomassie Blue. The White Light Box may also be used to view autoradiograms.



Cat. #552



Long Wave UV Mini-Light

A hand-held UV light that is used to detect hydrolysis of the fluorescent substrate and fluorescent *Artemia* and *Daphnia* after their ingestion. Also useful for observing fluorescence in Green (GFP) and Blue (BFP) fluorescent proteins.



Cat. #969



Midrange UV Transilluminator



The all-new Midrange UV Transilluminator is compact and designed to visualize DNA stained with Ethidium Bromide, Sybr® Safe, and other fluorescent stains. The UV filter size is 7 x 14 cm and is optimal for visualizing all of our gel sizes. Safety features include a UV-blocking cover and a power cut-off switch when the cover is opened.



Cat. #558 7 x 14 cm UV Filter



Short Wave UV	100 nm – 279 nm	Degradation of DNA
Mid Wave UV	280 nm – 314 nm	Visualization of DNA
Long Wave UV	315 nm – 400 nm	Visualization of GFP/BFP and Forensics

Gel Photodocumentation


NEW

EdvoFoto™ Digital GelCam

EDVOTEK has integrated an easy-to-use digital camera and specially designed hood to provide a low cost alternative for gel photos. Will accommodate gels up to 9.5 x 11 cm. Photos may be downloaded to a computer.


Cat. #551

NEW

UV Digital Photodocumentation System

Save money by purchasing both our Midrange UV transilluminator and our Photodocumentation System together! Comes with both Cat. #558 and #551.


Cat. #555

Visit Us Online!

www.edvotek.com

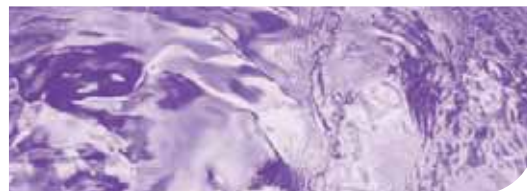
**Download
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Protocols!**

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our online
catalog!**

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Products
online!**

**Receive
Technical
Support!**

Waterbaths



Edvotek® 1.8 L Digital Waterbath



This classic Edvotek® waterbath has been improved to now include digital temperature control! We've also added a low-water sensor to prevent burn-outs and deepened the chamber to hold more bottles and flasks. The stainless steel chamber is corrosion resistant and temperature controlled from ambient to 95°C with cover (now included).



Cat. #539

1.8 L Waterbath
5.5 x 6 x 4" chamber
Includes one cover



Edvotek® 10 L Digital Waterbath

The all-new Edvotek® 10 L waterbath incorporates digital temperature control and an optional shaking capability! We've also added a low-water sensor to prevent burn-outs and the deep chamber holds virtually any bottle or flask. The stainless steel chamber is corrosion resistant and temperature controlled from ambient to 95°C with cover (now included).



Cat. #538

10 L Waterbath
8.5 x 15 x 6" chamber
Includes one cover



Edvotek® PCR Bath™

Our unique three-chambered PCR waterbath is ideal for both PCR experiments and for general lab use. Three individual chambers (3 x 1.8 L) are built into one casing, allowing multiple temperature settings. Temperature control is from ambient to 99°C with covers. Includes three chamber covers and a test tube rack to easily transport samples between baths. All waterbaths feature stainless steel chambers that are corrosion resistant and temperature controlled with an accuracy of $\pm 0.5^\circ\text{C}$. Chamber dimensions: 5.5 x 6 x 3.5"



Cat. #544

PCR Bath™
Three 1.8 L chambers
Includes three covers



All our waterbaths and shaking waterbaths are made in the USA!

Waterbaths



Edvotek® 10 L Digital Shaking Waterbath

Our 10 L Shaking Waterbath is designed for the most precise sample incubation when aeration and agitation are required. Features a 12 x 9 x 6" stainless steel chamber. Offers exceptional temperature control from ambient to 99°C with an accuracy of $\pm 0.5^{\circ}\text{C}$ (with cover).



Cat. #5027

Digital 10 L Shaking Waterbath

Cat. #5027-C

10 L Shaking Waterbath cover



Edvotek® 20 L Digital Shaking Waterbath

Our 20 L Shaking Waterbath is designed for the most precise sample incubation when aeration and agitation are required. Features a 19.5 x 11.5 x 6" stainless steel chamber. Offers exceptional temperature control from ambient to 99°C with an accuracy of $\pm 0.5^{\circ}\text{C}$ (with cover).



Cat. #5028

Digital 20 L Shaking Waterbath

Cat. #5028-C

20 L Shaking Waterbath cover



Waterbath Floats

Set of 2, 4.5" L x 3" W



Cat. # 689



Shakers & Centrifuges



Piccolo® Microcentrifuge

EDVOTEK®'s newly updated Piccolo® Microcentrifuge is easy-to-use, economical and handles most teaching lab applications including sample spin-downs and cell pelleting. Speed is variable from 0 to 6,400 rpm (2046 x g maximum). Includes a 6-place rotor for 1.5/2.0 ml tubes, and a second rotor for two 8 x 0.2 ml strip tubes.



Cat. #534



Mezzo™ Microcentrifuge **NEW**

Compact and easy to use, yet powerful enough to enable each workstation to be equipped with a centrifuge for a wide range of molecular biology separations and quick spins. Speed is variable from 0 to 12,500 rpm. The Mezzo™ Microcentrifuge includes a 12-place rotor for 1.5 ml to 2.0 ml tubes (adapters available for smaller tubes). A digital timer allows programs running from 15 seconds to 30 minutes. The unit is 8.0 x 6.7 x 4.5".



Cat. #533



Eppendorf® Microcentrifuge 5418

The ultra-compact 18-place Microcentrifuge 5418 fits on even the smallest lab bench. About the size of a standard sheet of paper, it offers a broad range of features that make your lab work easier. It provides up to 16,873 x g (14,000 rpm) and is extremely quiet, even when running without the rotor lid.



Cat. #530

Shakers & Centrifuges



Mini EdvoRokr™

The Mini EdvoRokr™ features a tilt angle and optimized speed for gel blotting, washing and staining. With the tri-directional motion, the rocker provide thorough and gentle mixing ability. The 10.5" X 7.5" autoclavable plat mat can accept stackable platforms and are safe to use in cold rooms and incubators (4°C to 65°C). The unit is 4.4 lb.

- Optimized speed & tilt for gel blotting, washing & staining
- Tri-Directional motion for thorough, gentle mixing
- Accepts stacking platforms
- Incubator & Cold Room Safe



Cat. #5019



Tornado Vortexer™

The Tornado Vortexer™ is a general purpose mixer for applications that demand vigorous and uniform vortexing. Variable analog speed control of 100 to 3200 rpm (± 25 rpm) with low rpm start-up allows gradual, gentle shaking of samples. The unit may alternatively be operated in "touch" (AUTO) mode. Rubber feet and a heavy base ensure that the unit won't "walk-away" during use. A cup head and a 3" dimpled platform are included with each unit.



Cat. #5023

Balances, Timer, Incubator



Electronic Balance **NEW**

This Electronic Balance was developed especially for ambitious first-time users in the laboratory and academic sector. This balance has a readability of 0.1 g and a capacity of 600 g.

Features:

- Capacity - 600g
- Readability - 0.1g
- Backlit LCD display
- 0-40°C operating temperature
- Stackable storage
- Automatic external calibration
- AC adapter supplied, 6 AA batteries optional



Cat. #562



Incubation Oven **NEW**

This economical bacterial incubator features a digital temperature control with a range from Ambient +1° C to 60° C. Ideal for growing bacteria on agar plates at 37° C or for Southern and Western Blot analysis at 60° C. Includes two adjustable/removable shelves for increased capacity. Accepts bottles and flasks up to 2 L. Internal dimensions are: 10.3 x 9.3 x 12.8". External dimensions are: 13.2 x 14.5 x 18.7".



Cat. #546



4 Channel Timer



Cat. # 763



Classroom DNA Electrophoresis LabStation™



Includes:

- 1 Cat. #515 M36 HexaGel™ Electrophoresis Apparatus (Six 7 x 7 cm Trays)
- 1 Cat. #509 DuoSource™ 150 (75/150 V for 1 or 2 units)
- 2 Cat. #588 Fixed Volume MiniPipet (40 µl)
- 1 Cat. #636 Yellow Micropipet Tips (1 - 200 µl / 2 Racks of 96)
- 1 Cat. #130 DNA Fingerprinting Classroom Kit

 Supports up to 24 Students


 Cat. # 5062



Demonstration DNA Electrophoresis LabStation™

Includes:

- 1 Cat. #500 M6Plus Electrophoresis Apparatus (7 x 10 cm Tray)
- 1 Cat. #509 DuoSource™ 150 (75/150 V for 1 or 2 units)
- 1 Cat. #588 Fixed Volume MiniPipet (40 µl)
- 1 Cat. #636 Yellow Micropipet Tips (1 - 200 µl / 2 Racks of 96)
- 1 Cat. #S-51 Whose DNA Was Left Behind?

 Supports up to 4 Students

 Cat. # 5061



**Contact an EDVOTEK®
BioEducation Specialist at
1.800.EDVOTEK
to customize a LabStation
for your classroom!**

Dual DNA Electrophoresis LabStation™

Includes:

- 2 Cat. #502 M12 Electrophoresis Apparatus (7 x 14 cm Tray)
- 1 Cat. #509 DuoSource™ 150 (75/150 V for 1 or 2 units)
- 2 Cat. #590 Variable MicroPipet (5 - 50 µl)



Supports up to 16 Students



Cat. # 5063



Dual Protein Electrophoresis LabStation™

Includes:

- 2 Cat. #581 MV10 Protein Electrophoresis Apparatus
- 1 Cat. #509 DuoSource™ 150 (75/150 V for 1 or 2 units)
- 4 Cat. #590 Variable MicroPipets (5 - 50 µl)



Supports up to 16 Students



Cat. # 5064



EDVOTEK® offers an extensive selection of Experiment kits for use with LabStations™. Experiments include all critical reagents and detailed instructions to ensure success in the classroom laboratory.

Classroom Protein Electrophoresis LabStation™

Includes:

- | | | |
|---|------------|---|
| 4 | Cat. #581 | MV10 Protein Electrophoresis Apparatus |
| 1 | Cat. #5010 | TetraSource™ 300 Power Supply (30-300 V for 1 to 4 units) |
| 8 | Cat. #590 | Variable MicroPipet (5 - 50 µl) |
| 1 | Cat. # 552 | White Light Box (21.5 x 29 cm viewing surface) |



Supports up to 32 Students



Cat. # 5065



Classroom PCR LabStation™

Includes:

- | | | |
|---|-----------|--|
| 6 | Cat. #502 | M12 Electrophoresis Apparatus (7 x 14 cm Tray) |
| 3 | Cat. #509 | DuoSource™ 150 (75/150 V, for 1 or 2 units) |
| 6 | Cat. #590 | Variable MicroPipet (5 - 50 µl) |
| 2 | Cat. #534 | Piccolo® Microcentrifuge |
| 1 | Cat. #541 | EdvoCycler™ (25 x 0.2 ml) |
| 1 | Cat. #558 | Midrange UV Transilluminator (7.5 x 7.5 cm filter) |
| 1 | Cat. #539 | Edvotek® 1.8 L Waterbath |



Supports up to 25 Students



Cat. # 5067



Comprehensive Biotechnology LabStation™



Supports up to 48 students



Cat. # 5068

NEW

& improved!



- | | | | | | |
|---|------------|---|----|-------------|---|
| 6 | Cat. #502 | M12 Electrophoresis Apparatus (7 x 14 cm Tray) | 1 | Cat. #551 | EdvoFoto™ Digital GelCam |
| 3 | Cat. #581 | MV10 Protein Electrophoresis Apparatus | 1 | Cat. #552 | White Light Box |
| 3 | Cat. #5010 | TetraSource™ 300 Power Supply (30-300 V for 1 to 4 units) | 1 | Cat. #558 | Midrange UV Transilluminator |
| 1 | Cat. #542 | MegaCycler™ (49 x 0.2 ml) | 10 | Cat. #969 | Long Wave UV Mini-Light |
| 1 | Cat. #5023 | Tornado Vortexer™ | 6 | Cat. #589 | Variable Micropipet (0.5 - 10 µl) |
| 3 | Cat. #534 | Piccolo® Microcentrifuge | 6 | Cat. #591 | Variable Micropipet (10 - 100 µl) |
| 1 | Cat. #546 | Incubation Oven | 6 | Cat. #592-1 | Variable Micropipet (100 - 1000 µl) |
| 1 | Cat. #538 | EDVOTEK® 10 L Digital Waterbath | 5 | Cat. #635 | Ultra Micropipet Tips (0.1 - 10 µl/2 Racks of 96) |
| | | | 10 | Cat. #636 | Yellow Micropipet Tips (1 - 200 µl/2 Racks of 96) |
| | | | 5 | Cat. #637 | Micropipet Tips (200 - 1000 µl/2 Racks of 100) |
| | | | 5 | Cat. #638 | Fine Tip Micropipet Tips (1 - 200 µl/1 Rack of 204) |

Reagents, Biologicals & Supplies



Reagents for DNA Electrophoresis

InstaStain® Ethidium Bromide

Rapid, sensitive and contains only a few micrograms of ethidium bromide. In 2 minutes, an agarose gel is ready for visualization. Disposal is minimal compared to the volume of liquid waste generated from the standard ethidium bromide staining procedure.

For 40 gels, 7 x 7 cm

Cat. # 2001

For 100 gels, 7 x 7 cm

Cat. # 2002



InstaStain® Blue

InstaStain® Blue sheets stain gels in minutes and give high quality and uniform gel staining with excellent results for photography. They are environmentally friendly, avoiding large amounts of liquid stain and waste disposal.

For 40 gels, 7 x 7 cm

Cat. # 2003

For 100 gels, 7 x 7 cm

Cat. # 2004



Protein InstaStain®

Protein InstaStain® sheets stain gels faster than conventional methods. Protein InstaStain® gives high quality and uniform gel staining with excellent results for photography. They are also environmentally friendly because they use a solid matrix, avoiding large amounts of liquid stain and waste disposal.

For 15 gels, 10 x 10 cm

Cat. # 2016

For 30 gels, 10 x 10 cm

Cat. # 2017



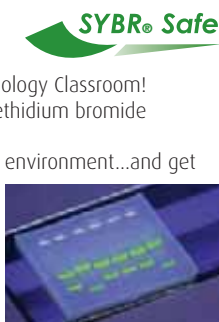
SYBR® Safe Stain

- SAFE for the Biotechnology Classroom!
- More sensitive than ethidium bromide
- Non-mutagenic

Save time, money, the environment...and get better gel results!

Concentrate-
for 750 ml

Cat. # 608



SYBR® Safe is a registered trademark of Life Technologies Corporation.



Electrophoresis Reagent Package with FlashBlue™ Stain

Package Contains:

- UltraSpec-Agarose™ (10 grams)
- 100 ml Electrophoresis Buffer (50x)
- 1ml Gel Loading (10x) Solution with tracking dye
- FlashBlue™ stain (for 1.2 L)

Cat. # 604



Electrophoresis Reagent Package with InstaStain® Blue

Package Contains:

- UltraSpec-Agarose™ (10 grams)
- 100 ml Electrophoresis Buffer (50x concentrated)
- 1ml Gel Loading Solution (10x) with tracking dye
- InstaStain® Blue (Cat. #2003)

Cat. # 624



10X Gel Loading Solution

Yields 6 ml final volume of DNA sample. Recommended usage: Add 1 volume solution to 9 volumes of sample and mix well.

Cat. # 606

Melt and Pour UltraSpec-Agarose™

0.8% UltraSpec-Agarose™ prepared with TAE buffer.

Cat. # 601 400 ml

Cat. # 601-B 5 x 400 ml

UltraSpec-Agarose™

DNA Electrophoresis Grade

Cat. # 605-3g

Cat. # 605-20g

Cat. # 605-100g

Cat. # 605-500g

NEW

Electrophoresis Buffer 50x TAE

This 50-fold concentrated solution (Tris-acetate, EDTA, pH 7.8) is sufficient for making 5 liters of diluted working buffer.

Cat. # 607 100 ml

Cat. # 607-XL 500 ml

Electrophoresis Buffer 10x TBE

To prepare, dissolve in distilled or deionized water.

Cat. # 607-1

FlashBlue™ DNA Staining System

FlashBlue™ is a proprietary visible light DNA stain that has been optimized to shorten the time required for both staining and destaining steps.

10X Concentrate, For 3 L

Cat. # 609



Restriction Enzyme Reaction Buffer

Concentrated reaction buffer (2 ml) for restriction enzymes. Sufficient for 200 reactions. Store at room temperature.

Cat. # 610

DNA Gel Markers

The sizes of the DNA fragments, in the base pairs, are 23130, 9416, 6557, 4361, 3000, 2322, 2027, 725, and 570. The 3000 and 725 base pair fragments have been added to facilitate staining.

For 20 gels, 20 µg

Cat. # 750



Ready-to-Load Digested DNAs

Due to their stable nature, most EDVOTEK® reagents are shipped ambient. Upon receipt, however, the materials should be stored according to the accompanying instructions.



Lambda DNA digested with Eco RI

Cat. # 709 20 µg for 20 gels

Lambda DNA digested with Eco RI & Hind III

Cat. # 710 20 µg for 20 gels

Lambda DNA digested with Hind III

Cat. # 711 20 µg for 20 gels

Plasmid pUC8 DNA digested with Eco RI

Cat. # 712 20 µg for 20 gels

Restriction Enzymes

The three most frequently used restriction enzymes are Eco RI, Bam HI, and Hind III. Each enzyme catalyzes cleavage at or near the defined base sequence. Because of this property, they are important reagents for biotechnology. They are utilized in cloning procedures. EDVOTEK® restriction endonucleases are purified by procedures developed in our laboratories. Each lot produced must meet quality control specifications.

Dryzyme® - Eco RI

The enzyme is isolated from *E. coli* RY13 carrying RI (fi+ plasmid) genes for restriction and modification as well as genes for resistance to the drugs sulfathiazole and streptomycin. The recognition specificity of Eco RI is sensitive to ionic environment. Product is lyophilized and contains 1500 units.

Cat. # 715

Dryzyme® - Hind III

The first type restriction endonuclease activity was isolated from *Haemophilus influenzae* Rd cells by H. O. Smith and associates. Subsequently the presence of two enzymes (Hind II and Hind III) in this cell strain was established. Product is lyophilized and contains 1500 units.

Cat. # 716

Dryzyme® - Bam HI

The restriction endonuclease Bam HI is isolated from *Bacillus amyloliquefaciens* H cells. Under certain conditions, the enzyme will recognize variations of the palindrome sequence to include GGNNCC. Product is lyophilized and contains 1500 units.

Cat. # 717

Unit Definition:

One EDVOTEK® restriction enzyme unit is defined as the amount of enzyme required to digest 1.0 µg of lambda phage DNA in 60 min. at 37°C in a total reaction mixture of 50 µl.

Reaction Buffer for Restriction Enzymes:

All enzyme shipments contain the appropriate reaction buffer for optimal reactions. A general reaction buffer can be purchased separately (Cat. # 610).

DNA

DNAs require freezer storage

Bacteriophage Lambda DNA

Cat. # 701 50 micrograms

Plasmid pBR322

Cat. # 702 10 micrograms

Plasmid pUC8

Cat. # 703 10 micrograms

Plasmid pUC18

Cat. # 704 10 micrograms

Restriction Enzyme Reaction Buffer

Concentrated reaction buffer (2 ml) for restriction enzymes. Sufficient for 200 reactions. Store at room temperature.

Cat. # 610

"Universal" DNA Extraction Buffer

For 50 extractions. This solution is recommended for the extraction of DNA from various fruit and vegetable tissues. The composition is safe for classroom use and is ideal for use in developing independent inquiry-based experiments.

Cat. # 627

Nylon Membranes for Southern Blots

Set of 5 blots. 7 x 14 cm. Use nylon membranes to perform Southern blots on any of your favorite DNA electrophoresis experiments.

Cat. # 665

Catalase Powder

200,000 units.

Cat. # 628



SAVE MONEY!
No overnight ice shipment.
Shipped at room temperature.

Polymerase Chain Reaction

PCR EdvoBeads™

Each PCR EdvoBead™ contains:

- Taq DNA Polymerase
- Taq DNA Polymerase Buffer
- dNTP Mixture
- MgCl₂

Cat. # 625 30 Beads



Thin-walled PCR Microtest Tubes

(0.2 ml for PCR) 100/pkg

Cat. # 642.2

(0.5 ml for PCR) 100/pkg

Cat. # 642.5

Chelating Agent

Chelating agent used for extraction of DNA in PCR. Includes 0.2 grams of chelating resin and buffer for resuspension.

Cat. # 629

Proteinase K

Proteinase K is required to prepare the lysis solution for isolation of DNA from hair.

Cat. # 626

Bacterial Transformation Reagents

Luria Broth Media

Cat. # 611 100 g

Bacterial Plating Agar

Cat. # 612 30 g

IPTG

Cat. # 613 100 mg

X-Gal

Cat. # 614 250 mg

ReadyPour™ Luria Broth

Agar Base (170 ml)

Cat. # 615

Agar Base with Ampicillin (170 ml)

Cat. # 616

Transformation Reagents

For 10 Lab Groups

Amp, X-Gal, pGal™

(does not include media and plasticware)

Cat. # 617



BactoBeads™

Place one BactoBead™ on the agar plate, watch it dissolve, and streak for isolated colonies.



E. coli JM109

BactoBeads™

Cat. # 726 5 beads

E. coli Fluorescent Protein Host

BactoBeads™

Cat. # 728 5 beads

E. coli OP50 BactoBeads™ (for *C. elegans*)

Cat. # 729 5 beads

Citrobacter freundii

Chromogenic Host

BactoBeads™

Cat. # 740 5 beads

Serratia marcescens

BactoBeads™

Cat. # 741 5 beads

Micrococcus luteus

BactoBeads™

Cat. # 742 5 beads

Bacillus subtilis

BactoBeads™

Cat. # 743 5 beads

Lyophilized Bacterial Cultures and Cells

These freeze-dried cultures contain lyophilized viable strains of common classroom microbes. These non-pathogenic strains are simple to reestablish by the addition of nutrient broth and incubation at the appropriate growth temperature. Shipped ambient and should be stored in the refrigerator at 4°C.

LyphoCells™ for DNA Extraction

Same as in Cat. #203. Incl. buffer for cell resuspension.

Cat. # 621

Protein Electrophoresis Reagents

Some components require -20°C Freezer Storage.

Precast Polyacrylamide Gels

Cat. # 651 3 gels (12%)

Cat. # 652 6 gels (12%)

Tris-glycine-SDS Powdered Buffer

For protein gel electrophoresis.

Enough powder to make 5L of 1X buffer.

Cat. # 655

Tris-glycine Powdered Buffer

For protein gel electrophoresis.

Enough powder to make 5L of 1X buffer.

Cat. # 656

Tris-HCl-SDS-2-Mercaptoethanol

Contains mercaptoethanol to break disulfide bonds in proteins. This buffer solution can be used for molecular weight determination. Requires -20°C Freezer Storage.

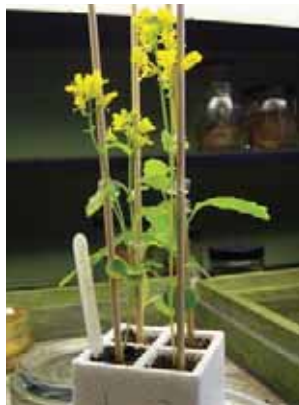
Cat. # 658 10 ml

Prestained Lyophilized Protein Standard Marker

Molecular Weight Standards.

Cat. # 752 For 6 gels

Quick Plant™ Seeds



Quick Plant™ Seeds - Brassica

Cat. # 1225 50 seeds

Cat. # 1226 200 seeds

Wild Type Seeds - *Arabidopsis Thaliana*

Cat. # 1251 150 seeds

Cat. # 1252 300 seeds

Dwarf Type Seeds - *Arabidopsis Thaliana*

Smaller, more compact

Cat. # 1255 150 seeds

Cat. # 1256 300 seeds

Variegated - *Arabidopsis Thaliana*

Variegated Leaf Coloring

Cat. # 1257 150 seeds

Cat. # 1258 300 seeds

Lab Supplies

Microtest Tube Rack

(Single rack)

Cat. # 639

Microtest Tubes

(500 snap-top tubes - 1.5 ml)

Cat. # 630

Thin-walled PCR Microtest Tubes

(0.2 ml for PCR) 100/pkg

Cat. # 642.2

(0.5 ml for PCR) 100/pkg

Cat. # 642.5

Microtiter Plates

Set of 6 plates.

96-well plastic microtiter plates. Opaque white color facilitates easy viewing of color reactions.

Cat. # 666

Small Petri Plates

60 x 15 mm, 1 shelf pack

Cat. # 633

Large Petri Plates

100 x 15 mm, 1 shelf pack

Cat. # 643

Waterbath Floats

Set of 2, 4.5" L x 3" W

Cat. # 689

Nonmercury Thermometer

Graduated in 1°C divisions.

Range of -20° - 110° C.

Cat. # 765

Safety Supplies

Disposable Nitrile Gloves

For latex sensitive allergy. 100/pkg

Cat. #774-1 Small

Cat. #774-2 Medium

Cat. #774-3 Large

Cat. #774-4 XLarge

Goggles, Laboratory UV Light Safety

Laboratory safety goggles with UV light protection.

Cat. # 631

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Edvotek, Inc.
1121 5th Street NW
Washington, DC 20001



Edvotek, Inc.

1121 5th Street NW | Washington, DC | 20001 | USA

phone: 1.800.EDVOTEK | fax: 202.370.1501

email: info@edvotek.com | www.edvotek.com

Edvotek UK Ltd.

PO Box 280 | Hertford | Hertfordshire | SG13 9DG | UK

tel: +44 1992 410 140 | fax: +44 1992 410 106

email: UKinfo@edvotek.com | www.edvotek.co.uk