Earn 2x or 3x the regular amount of VWR Loyalty Points
Offer valid from Oct. 1, 2016 to Dec. 31, 2016
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CUSTOMER LOYALTY INCENTIVE PROGRAM

What is CLIP?

The VWR Customer Loyalty Incentive Program, otherwise known as CLIP, is a chance for you to earn additional Loyalty points with our VWR Collection Products. Every season we showcase selected products from our VWR Collection Portfolio for you to choose from, giving you the opportunity to earn more points!

How Does it Work?

Join our free rewards program; start getting rewards today at www.vwrloyalty.ca!

YOUR CHOICE
Your business with VWR! VWR Collection products to choose from.

YOUR POINTS
For every $100 spent, earn 10 VWR Loyalty points. With CLIP products, you can double or triple your points.

YOUR REWARDS
Use VWR Loyalty points to redeem from a choice of over 200 rewards.

Our Value Promise

The VWR Collection is an exclusive line of products that offers the right products, at the right price, when you need them, with a name you trust. Whether you’re in a laboratory or a production environment, you face the challenge of balancing the need to stretch your dollars with the need for quality and innovation. The VWR Collection helps you do both.

We promise to shower our VWR Collection patrons with new promotions and exciting ways to earn more points! This is our personal way of saying Thank You.

START EVERY SEASON WITH A NEW VWR CLIP RELEASE!
REDEEM YOUR REWARDS

VWR Collection
VWR points may be used towards redeeming VWR products available on www.vwrloyalty.ca

- More than 100 products
- Products value range from $20 to $16,000
- 200 to 160,000 VWR points to redeem

2x or 3x
200+ ITEMS TO CHOOSE FROM! 
LOG ONTO WWW.VWRLOYALTY.CA 
TO VIEW THEM ALL!

**Gift Cards**
- More than 50 gift cards from 10+ vendors
- Gift cards are offered for coffee, food, gas, movies, music, and merchandise stores
- Available in various denominations
- Gift cards may be redeemed starting at 100 VWR points up to 1000 VWR points

**Merchandise**
- More than 50 rewards in 10+ brands
- Selection range includes laptops, tablets, phones, cameras, headphones, speakers, appliances, and more
- Merchandise values range from $115 to $5,000
- Merchandise may be redeemed starting at 1150 VWR points up to 50,000 VWR points
VWR® Nitrile 200 Examination Gloves

These gloves are ambidextrous with textured fingers and a rolled, beaded cuff. They are made from premium nitrile for high quality and consistency.

Manufactured from 100% premium nitrile, these gloves provide hand protection against biohazards and a broad range of chemicals. These 100% latex-free gloves eliminate adverse reactions associated with natural rubber latex proteins, and have been tested for use with chemotherapy drugs per ASTM D6978. They are also rigorously tested and manufactured under stringent process controls according to ISO 9001 and ISO 13485 to ensure that each product meets exacting quality standards.

<table>
<thead>
<tr>
<th>Ambidextrous/Hand-specific</th>
<th>Ambidextrous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cuff thickness</td>
<td>2.4 mil</td>
</tr>
<tr>
<td>Disposable/Reusable</td>
<td>Disposable</td>
</tr>
<tr>
<td>Finger thickness</td>
<td>3.9 mil</td>
</tr>
<tr>
<td>Palm thickness</td>
<td>2.8 mil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Color</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Small</td>
<td>22.9 cm (9&quot;)</td>
<td>Blue</td>
<td>89428-746</td>
</tr>
</tbody>
</table>

VWR® Cryogenic Vial Cap Inserts

Color | Cat. No.
---|---
White | 16001-120

VWR® Disposable Square Weighing Boats

These square shaped polystyrene flexible weighing boats with smooth surfaces enable accurate pour-out with minimal sample loss. They are biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bleaches. Ideal for use with microwaves, balances, or moisture analyzers.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Color</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mL</td>
<td>White</td>
<td>10770-448</td>
</tr>
</tbody>
</table>

VWR® Disposable Hexagonal Weigh Boats

These polystyrene weighing boats feature smooth surfaces to enable accurate pour-out with minimal sample loss. Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols and bases. These flexible, antistatic boats bend at points to form pouring spouts.

<table>
<thead>
<tr>
<th>Size</th>
<th>Base I.D.</th>
<th>Top I.D.</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large</td>
<td>76 mm (3&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>10770-456</td>
</tr>
</tbody>
</table>

VWR® Cryogenic Vials, Internally or Externally Threaded

Designed for storing biological material, human or animal cells at temperatures as low as –196°C, but should be used only in the gas phase of liquid nitrogen. Each item has a large white marking area and printed graduations.

Closures and tubes are made of polypropylene with the same coefficient of expansion, which further enhances the leakproof qualities of these vials at various temperatures. Please note that model 10018-740 has a polyethylene screw cap. Round bottom vials may be centrifuged up to 17,000 g. Sterilized by gamma radiation (10⁵), and autoclavable.

Certified Rnase-, DNase-, Pyrogen- and DNA-free. CE marked.

Packaged in tamper-proof, resealable, safety-lock bags of 100. Tubes can be color coded by the use of CAPINSERT. Cap insert assortment includes 100 each of white, blue, red, green, and yellow.

Description | Capacity | O.D. x H | Sterility | Cat. No. |
-------------|----------|----------|-----------|---------|
Internally Threaded with Washer | Self-Standing Vials with Silicone Washer Seal Cap | 1.2 mL | 12.5 x 41 | Sterile | 10018-736 |

www.vwrloyalty.ca | 1.800.932.5000 | Customer Loyalty Incentive Program
VWR® Round Carboy with Spigot, Narrow Mouth

Use for storing and dispensing solutions and media. Ideal for sterile water storage, polypropylene carboys can be autoclaved before refilling to stop recurring bacterial growth. Excellent chemical resistance. Graduated to identify the volume dispensed.

Carboys offer excellent chemical resistance and are well suited for use from –100 to 100°C (–148 to 212°F). Graduated to identify the volume dispensed. Round carboys feature an integrated shoulder handle. Carboys are leak-proof on standard test conditions. Spigots are tied to the handle, and require assembly by hand for usage. No tools are necessary for assembly.

Resin meets US FDA 21 CFR, USP Class VI.

Spigot included. Polypropylene carboys are autoclavable. LDPE carboys are not autoclavable. Always disassemble spigot and cap from carboy before autoclaving.

VWR® Pour-Boat Weighing Dishes

Samples are easily dispensed with the pour spout design without flexing the dish. These flat bottomed dishes are made from 0.3 mm thick polystyrene for better strength, stability, and handling.

VWR® Chemical-Resistant Laboratory Marker

Permanently marks slides and cassettes in the histology laboratory.

**Note:** Markers are not for use on smooth surfaces; only on frosted areas of slides and cassettes.

VWR® Cell Strainers, DNase/RNase Free, Non-Pyrogenic, Sterile

Cell strainers are manufactured from a strong nylon mesh with evenly spaced mesh pores. These cell strainers are sterile, easy-to-use devices for quickly isolating primary cells to consistently obtain a uniform single-cell suspension from tissues. Protect valuable flow cytometry and cell sorting instrumentation by reliably removing clumps and debris from cell suspensions and clinical samples prior to analysis.

Available in 3 mesh sizes; 40µm, 70µm, and 100µm. Also available in 3 different colors; blue, white, and yellow, for easy identification. Improved uniformity of single cell suspensions. Made of a strong nylon mesh with evenly spaced mesh pores. The extended lip on the strainer enables aseptic handling with forceps.

ISO 9001, ISO 13485.

VWR® Light-Duty Tissue Wipers

Virgin fiber tissue wipers are absorbent, soft, strong, and low-linting. Ideal for lab, pharmaceutical, biomedical, and healthcare industries.

For use in laboratory, electronic, pharmaceutical, biomedical, optical, healthcare, computer assembly, graphic, and many other light manufacturing and assembly applications. Custom-size dispensers (available separately) hold wiper boxes securely, providing one-handed access to wipers. Wipers come in antistatic film-windowed dispenser boxes.
The VWR® Next Generation Pipet Tip Refill System offers a complete refilling solution for laboratory pipetting procedures. Refills are available in 17 different tip styles to accommodate use with VWR pipettors as well as those of other brands. Each sterile package fits onto VWR hinged racks with a simple lift, place, and snap. Tips are made with pure endotoxin-free filters that block aerosols and fluids. With a focus on environmentally friendly construction, each refill is a complete system with a low carbon footprint. Packaging is constructed from 100% renewable material, all recyclable portions are clearly coded, and tip bases include the use of bioplastic (non-petroleum) compostable resin. Each refill package includes a transfer cover made of recycled PET. Covers keep tips clean, prevent wobbling during refilling procedures, and eliminate the threat of contamination as well as the use of gloves. Extremely stable when opened, each refill package is a reclosable box that maximizes storage space. All tips are certified to be free of Endotoxin, Oleamide, DNA and Nuclease (Rnase/Dnase). ISO 9001, CE IVD.

<table>
<thead>
<tr>
<th>Volume</th>
<th>Sterility</th>
<th>Tip Style</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1–20 µL</td>
<td>Nonsterile</td>
<td>Rainin® LTS™ Style Tips</td>
<td>89079-436</td>
</tr>
</tbody>
</table>

The VWR® Superfrost® Plus Micro Slide features a special treatment that eliminates the need for additional adhesives or protein coatings, and improves tissue adherence in microwave stainings. Slides are specially treated for frozen tissue sections and cytology preparation applications, eliminating the need for special adhesives and protein coatings. Cytology preparations placed on these slides resist cell loss during enzyme digestion, DNA denaturation, and RNA hybridization. Slides also improve tissue adherence during microwave staining. Slides have an opaque coating that retains most laboratory marking methods.

<table>
<thead>
<tr>
<th>L x W</th>
<th>Thickness</th>
<th>Color</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 x 25 mm (3 x 1&quot;)</td>
<td>1 mm</td>
<td>White</td>
<td>48311-703</td>
</tr>
</tbody>
</table>

Microscope slides are manufactured of soda-lime glass in accordance with ISO 8037/1 standards. A thorough automatic cleaning process ensures that slides are ready to use without further treatment. Frosted slides feature a fine 20mm frosted marking area.

<table>
<thead>
<tr>
<th>L x W</th>
<th>Thickness</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 x 25 mm (3 x 1&quot;)</td>
<td>1 mm</td>
<td>16004-422</td>
</tr>
</tbody>
</table>

VWR Collection dishes are vacuum gas plasma treated for consistent cell attachment and growth. Dishes are optically clear, making them suitable for microscopy. Manufactured in 100 000 grade cleanroom environment. Packed in resealable self-standing bags allowing dishes to remain upright, lowering the risk of contamination.

<table>
<thead>
<tr>
<th>Description</th>
<th>Dia. x H</th>
<th>Growth Area</th>
<th>Packaging</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Culture Dish with Gripping Ring</td>
<td>100 x 22 mm</td>
<td>60.8 cm²</td>
<td>10/bag</td>
<td>10062-880</td>
</tr>
</tbody>
</table>

www.vwrloyalty.ca | 1.800.932.5000 | Customer Loyalty Incentive Program
EQUIPMENT
VWR® Series Glass Door Chromatography Refrigerators with Natural Refrigerants

Units feature a digital microprocessor temperature controller, allowing for the precise temperature management necessary for critical samples and supplies.

A forced air directional refrigeration system provides superior temperature uniformity and recovery after door openings. An automatic cycle-defrost design prevents product damaging temperature spikes.

Environmentally friendly, natural hydrocarbon (HC) refrigerants (not containing hydrofluorocarbons) vastly reduce global-warming potential (GWP) while meeting new EPA/SNAP mandates and UL ASHRAE compliance guidelines.

UL/C-UL listed.
Two year parts and labor warranty, five years on compressor parts.

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Volume</th>
<th>Exterior Dimensions</th>
<th>Defrost</th>
<th>Door Type</th>
<th>No. of Shelves</th>
<th>Shipping Weight</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>115V, 60 Hz, 8.5 Amps</td>
<td>1388 L (49 cu. ft.)</td>
<td>140W x 81.4D x 200H cm (55⅛ x 321/16 x 785/8&quot;)</td>
<td>Cycle</td>
<td>2 Swing Glass</td>
<td>8 Adjustable</td>
<td>213 kg (470 lbs.)</td>
<td>10819-310</td>
</tr>
</tbody>
</table>

VWR® Forced Air Microbiological Incubators

VWR Forced Air incubators provide an even higher temperature uniformity and stability for reproducible results in microbiology and research labs.

Compared to gravity convection units the temperature recovers more quickly after opening door and when replacing samples. Optimal conditions are maintained even with larger loads.

The PID control is easy to use, and has a large display for optimal feedback to the operator. Timer function allows to turn the incubator on and off at desired time. Overtemperature alarm and a dual sensor safety concept are providing peace of mind. For data monitoring the unit can be connected via a standard RS-232 interface to a computer.

Chamber cleaning is simple, due to stainless steel interior with smooth, rounded corners. The flexible shelving system with 13 to 39 positions allows taking best advantage of the internal volume. Internal glass door allows viewing of samples without disruption.

cCSAus.
Two year standard warranty in US and Canada. Extended warranty packages are available. For gentle incubation and low evaporation rates, please check our VWR Gravity Convection incubators.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Large Forced Air Microbiological Incubator</td>
<td>178 L (6.3 cu. ft.)</td>
<td>36H x 25W x 29D“</td>
<td>47H x 38W x 31D“</td>
<td>28H x 18W x 21D“</td>
<td>30 min. to 37°C</td>
<td>2.5 min.</td>
<td>± 0.4 (based on 27 sensors)</td>
<td>± 0.1°C</td>
<td>191.8 lbs.</td>
<td>89511-428</td>
</tr>
</tbody>
</table>

Simplify Management of Lab Supplies with VSR+

VSR+ technology streamlines inventory management with a single, easy-to-use application. Developed to meet the specific challenges of research organizations, VSR+ allows laboratories to track inventory across multiple locations, manage products from any supplier, and devote more time to science.

Watch a video at vwr.com/vsr, where you can also request a live VSR+ demonstration. The “VWR Lab Supplies Management” mobile app is now available on the App Store and Google Play.
VWR® Gravity Convection Incubators

VWR Gravity Convection incubators with unique airflow design provide best conditions for delicate samples. Drying out is kept at a minimum level, even in open containers. Besides incubation in microbiology, bacterial and yeast research, the VWR incubators are used in food/beverage/pharmaceutical testing, and for heated storage.

Control and display; the PID control is easy to use, and has a large display for optimal feedback to the operator. Timer function allows to turn the incubator on and off at desired time. Overtime alarm and a dual sensor safety concept are providing peace of mind. For data monitoring the unit can be connected via a standard RS-232 interface to a computer.

Chamber: cleaning is simple, due to stainless steel interior with smooth, rounded corners. The flexible shelving system with 13 to 19 positions allows taking best advantage of the internal volume. Internal glass door allows viewing of samples without disruption.

cCSAus.

Two year standard warranty in the US and Canada. For highest temperature uniformity and stability requirements, please check our VWR Forced Air incubators.

---

<table>
<thead>
<tr>
<th>Electrical</th>
<th>120V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovery Time</td>
<td>4 min. to 37°C</td>
</tr>
<tr>
<td>Temperature fluctuation (°C)</td>
<td>± 0.2°C at 37°C</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>ambient +5 to 75°C</td>
</tr>
<tr>
<td>Temperature Setting Accuracy</td>
<td>0.1</td>
</tr>
<tr>
<td>Temperature Uniformity</td>
<td>± 0.6°C at 37°C (based on 27 sensors)</td>
</tr>
</tbody>
</table>

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</thead>
<tbody>
<tr>
<td>75 L (2.6 cu. ft.)</td>
<td>28H x 21W x 22D”</td>
<td>26 x 30.7 x 39.4”</td>
<td>16.3D x 20H x 13.9W”</td>
<td>25 min. to 37°C</td>
<td>114.6 lbs.</td>
<td>89511-418</td>
</tr>
</tbody>
</table>

---

VWR® Gravity Convection Ovens

VWR Gravity Convection ovens are the optimal choice for heating and drying of delicate samples that require a gentle airflow. Powders and light samples will not be blown away by active air movement.

Processes such as sterilization or heated storage are followed economically. Air exchange can be controlled by a damper – open it for drying to remove humidity quickly, and close it for heat treatment with highest requirements for temperature accuracy.

Control and display; the PID control is easy to use, and has a large display for optimal feedback to the operator. Timer function allows to turn oven on and off at desired time. Overtime alarm and a dual sensor safety concept are providing peace of mind. For data monitoring the oven can be connected with a standard RS-232 interface to a computer.

Chamber: cleaning is simple, due to stainless steel interior with smooth, rounded corners. The flexible shelving system with 13 to 19 positions allows taking best advantage of the internal volume. Heat stays inside the unit due to a unique insulation design, with benefit of low energy consumption and cool outside. Bench saving footprint does not compromise volume.

cCSAus.

Two year standard warranty in US and Canada. For fast drying processes and highest temperature accuracy, please check our VWR Forced Air ovens.

---

<table>
<thead>
<tr>
<th>Electrical</th>
<th>120V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature fluctuation (°C)</td>
<td>± 0.4°C at 150°C</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>50 - 250°C</td>
</tr>
<tr>
<td>Temperature Setting Accuracy</td>
<td>0.1°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>65 L (2.3 cu. ft.)</td>
<td>22D x 21W x 28H”</td>
<td>26D x 30.7W x 39.4H”</td>
<td>16.3D x 13W x 19H”</td>
<td>25 min. to 150°C</td>
<td>6 min. to 150°C</td>
<td>± 4°C at 150°C (based on 27 sensors)</td>
<td>121.25 lbs.</td>
<td>89511-404</td>
</tr>
</tbody>
</table>
VWR® Heated Circulating Baths

VWR® Heated Circulating Baths offer precise temperature control, at temperature ranges from ambient +10°C to 200°C (depending on the controller).

The large, LCD display on the MX temperature controller is easily viewed across the lab. The Advanced Digital temperature controller offers a touch-pad, while the Advanced Programmable Temperature Controller includes a full touch-screen display, and programma-

bility (ten 100-step programs).

The Advanced Series Controllers offer Swivel 180™ technology, which allows you to rotate the controller independently from the bath. All heated circulating baths include LidDock™ lid stowing system and DuraTop™, the precision molded phenolic bath top, which remains cooler at high temperatures and resists laboratory chemicals.

ETL listed. CE marked. MX Controller complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids. Advanced Digital and Advanced Programmable comply with DIN 12876-1 Class III safety requirements for use with flammable liquids. Heated Circulators include reservoir cover; bypass tubing; male inlet and outlet adapters for 3/8, 1/4" and 3/16" (9.5, 6.3 and 4.7 mm) tubing. 1/4" NPT to M16 adapters also included on 50 Hz models.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Pre-Calibrated Bath, Model 89202-926</td>
<td>10017-628</td>
</tr>
</tbody>
</table>

VWR® High Volume Magnetic Stirrers

High volume magnetic stirrors are designed for large capacity applications.

Powerful magnet and motor offer exceptional magnetic force capable of stirring 25L. Microprocessor speed control precisely regulates speed through the entire range. Ramping feature slowly increases speed to avoid splashing and improve spin bar control. Large top plate surface accommodates oversized vessels. Strong cast aluminum base can handle heavy loads.

Model 660 standard series offers an analog speed control knob with dial markings. Model 760 advanced series offers an LED display for digital speed control, adjustable in 10rpm increments.

RoHS certified. Calibrated Stirrors include a Troemner ISO/IEC Accredited Calibration Certificate traceable to NIST. The ISO/IEC 17025 Accredited Calibration Certificate includes multiple data points within the speed range and time function with the associated uncertainties. Troemner is accredited by NVLAP under Laboratory Code 105013-0 to perform ISO/IEC 17025 calibrations.

Units include a 2.3m (92) detachable, three-wire electrical cord and plug.
VWR® Advanced Hot Plate Stirrers

Advanced hot plate stirrers are designed to deliver accurate and repeatable results in general-purpose laboratory applications. These microprocessor controlled units feature a front-facing control panel with an easy-to-read LED that displays set-point temperature. Enhanced electronics regulate the robust heater, which brings samples to the desired temperature quickly and efficiently. Speed is precisely controlled, and provides consistent stirring at all speeds. The low profile design utilizes minimal bench space and permits use within a fume hood. Unit housing is constructed of a heat- and chemical-resistant polymer that remains cool to the touch during operation. The spill-resistant design channels fluids away from internal components in the event of spills.

Hot plate stirrers are available with ceramic or aluminum top plate material. Reflective white ceramic tops are chemical-resistant and easy to clean. Durable aluminum tops will not crack or chip, and offer a more even heating surface. A ramping feature that gradually increases speed results in improved safety, enhanced coupling, and excellent low end speed control. A built-in memory recall provides users with the last set temperature, even after the unit has been turned off. For additional safety, a hot symbol warning light is illuminated when the hot plate is in use, and remains lit until the top plate is sufficiently cooled.

RoHS certified. TÜV listed. CE marked.

Units are supplied with a 234cm (92") three-wire cord and plug. A 3.8cm (1.5") PTFE coated stir bar is also included. The optional support rod and clamp kit includes a 45.7cm (18") long stainless steel support rod, a thermometer/temperature probe extension clamp, a three-prong dual-adjust swivel clamp, and a hook connector. 230V, 50/60Hz models are also available; contact your VWR sales representative for more information.

### Operating Conditions
- **Temperature Range:** 5° above ambient to 500°C (932°F) for ceramic top, 5° above ambient to 400°C (752°F) for aluminum top
- **Temperature Stability:** ±2% for ceramic top, ±3% for aluminum top

### Electrical Specifications
- **Voltage:** 120V, 1000W, 8.3A
- **Dimensions:** 25.1W x 37.6L x 10.9H cm (929/32 x 1413/16 x 45/16"")
- **Capacity:** 2500 mL
- **Top Plate Material:** Ceramic
- **Weight:** 4.8 kg (10.5 lbs.)

### Cat. No.
- 97042-642

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VWR® Digital Dry Block Heaters

VWR® Digital Dry Block Heaters are ideal for incubation and activation of cultures, enzyme reactions, blood urea nitrogen determinations, immunoassays, melting/boiling points, and a wide variety of other laboratory procedures. The economical, versatile, and compact block heaters are designed for applications that require repeatable results and superior temperature stability.

Each of the five models accepts separate interchangeable modular blocks, which accommodate various sample enclosures such as vials, microplates, PCR strips, and a wide variety of tubes. Each block has a thermometer well, and features close tube-and-block contact for maximum heat retention.

Easy-to-use front-mounted controls with independent LED displays show actual and set point temperatures. Microprocessor control offers a stability of 0.1°C, while independent controls allow users to adjust temperature settings in ±0.1°C increments. A timer will display elapsed time or when programmed to user-defined limit, will count down to zero and shut off unit. Audible alarm will sound when time reaches zero.

All dry block heaters include a built-in support rod holder for mounting the probe kit. The optional external temperature probe enables the unit to read the actual or sample temperature and display that temperature on the control panel. The RTD probe is designed to fit perfectly into the thermometer well of each modular block. Kit includes a stainless steel RTD probe, 45.7cm (18") stainless steel support rod, thermometer/temperature probe extension clamp, and hook connector. Caution: To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.

RoHS certified. 120V units are UL and C-UL listed. 230V units are additionally CE marked. Calibrated Dry Block Heaters include a Troemner ISO/IEC Accredited Calibration Certificate traceable to NIST. The ISO/IEC 17025 Accredited Calibration Certificate includes multiple data points within the temperature range and time function with the associated uncertainties. Troemner is accredited by NVLAP under Laboratory Code 105013-0 to perform ISO/IEC 17025 calibrations.

### Ordering Information:
- All units include a 234cm (92") detachable, three-wire cord and plug. Heaters require a VWR modular heating block for operation (sold separately).
- **Environmental Preferable Attribute:** Product and/or packaging is recyclable or reduces waste
- **Temperature Range:** 5° above ambient to 120°C
- **Temperature Stability:** ±0.1°C

### Cat. No.
- 12621-088
**VWR® 4-Place Mini Bead Mill Homogenizer**

The VWR® 4-Place Mini Bead Mill Homogenizer is a compact and powerful bead mill homogenizer. Using sample tubes pre-filled with a variety of lysing beads, the mill vigorously and uniformly shakes the tubes providing an efficient, consistent, high-yield and quality homogenization in less than 60 seconds. The VWR® 4-Place Mini Bead Mill supports simultaneous processing of samples in 4x0.5 mL, 4x1.5 mL, 4x2 mL, or 1x7 mL tubes. It does not require a cool down period between runs, allowing for non-stop use and high throughput. The unit features a convenient front loading design and safety lid closure. CE marked.

Includes the VWR® Mini Bead Mill Drive Unit, integrated 0.5mL, 1.5mL and 2mL tube carriage, interchangeable 1x7mL tube carriage, user manual, and two-year warranty. VWR® disposable bead tubes are sold separately.

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VWR® 4-Place Mini Bead Mill</td>
<td>21.5 x 29.2 x 25.4 cm (8.5 x 11.5 x 10”)</td>
<td>10158-558</td>
</tr>
</tbody>
</table>

**VWR® A-Series Balances**

VWR® Collection A-Series Balances provide repeatable and precise weighing with advanced technological features. In addition to forced-compensation weighing technology, VWR® A-Series balances incorporate state-of-the-art features for advanced weighing applications and documentation. These economical balances offer a variety of standard features, such as internal calibration, menu-driven operation, multiple weigh modes, advanced communication features, and varied application modes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Rotor</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microcentrifuge</td>
<td>260 x 275 x 344 mm</td>
<td>Not included</td>
<td>10799-122</td>
</tr>
</tbody>
</table>

**ISO/IEC 17025 Accredited Pipette Calibration**

VWR CATALYST offers calibration and repair services for all makes, models, and configurations of pipettes. Onsite and depot calibration are available. Request a quote today at vwr.com/vwr catalyst
VWR® symPhony™ Benchtop Meters

Specially designed for use in the lab, these rugged and durable benchtop meters are versatile enough to fit your unique testing needs.

These meters are simple to operate and offer an intuitive user interface allowing for easy set up and use from day one. Step-by-step on screen prompts enable both new and seasoned users to operate the meter easily and effectively, resulting in consistently accurate measurements.

VWR® symPhony™ benchtop meters meet IP54 specifications for protection from water and are CE and cETLus marked.

Stand is not included with the meter kits. Each benchtop meter can be configured to fit your needs with the variety of optional electrodes, stands with stirrers, and accessories available.

### Specifications

- **Conductivity - accuracy**: ± 0.5% m.v. ± 1 digit
- **Conductivity - range**: 0.001 µS/cm to 1000 mS/cm
- **Conductivity - resolution**: Variable, autorange
- **Dissolved Oxygen Range**: 0.00 to 60.0 mg/L
- **DO - accuracy**: ± 0.5% m.v. ± 1 digit
- **DO - resolution (mg/l)**:
  - 0.01 mg/L in the range of 0.00 to 19.99 mg/L
  - 0.1 mg/L in the range of 20.0 to 60.0 mg/L
  - 1% in the range of 0.0 to 19.9%
  - 1% in the range of 20 to 600%
- **ISE - range**: 10-5 to 10-1 mol/L
- **ISE - units**: mol/L, M, g/L, mg/L, µmol/L, mM, µmol/L, or %
- **pH - accuracy**: ± 0.002 pH (± 1 digit)
- **pH - range**: 2 to 19
- **pH - resolution**: 0.1/0.01/0.001
- **Resistivity - accuracy**: ± 0.5% m.v. ± 1 digit
- **Resistivity Range**: 0.0001 to 100 MΩ
- **Resistivity Resolution**: Variable, autorange
- **Salinity - range**: Automatic, with manual data entry (0-45 ppt)

---

VWR® symPhony™ Handheld Meters

Specially designed for use in environmental field applications and in the lab, these rugged and durable handheld meters are versatile enough to fit your unique testing needs.

These meters are simple to operate and offer an intuitive user interface allowing for easy set up and use from day one. Step-by-step on screen prompts enable both new and seasoned users to operate the meter easily and effectively resulting in consistently accurate measurements. Each handheld meter is waterproof and can be configured to fit your needs with the variety of electrodes and accessories available. Each meter features one single connector that can be used when testing for multiple parameters, and also allows for automatic or manual calibration and automatic buffer recognition.

VWR® symPhony™ handheld meters are IP67 certified and are CE and cETLus marked.

<table>
<thead>
<tr>
<th>Description</th>
<th>Includes</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10P Handheld pH Meter with pH Probe</td>
<td>H10P Meter (89231-666) and Gel-Filled pH Electrode (89231-608)</td>
<td>89231-668</td>
</tr>
</tbody>
</table>

---

VWR® Inverted Fluorescence Microscope

The VWR® Inverted Fluorescence Microscope is ideal for applications in biology, cell cytology, genetics, oncology, and immunology. It is also well suited for research, universities, routine laboratory, and medical demands.

The VWR® Inverted Fluorescence Microscope features Siedentopf trinocular tube with a 45° inclination (Light Split = 0/100), Wide Focus PL 10X/22mm high eyepoint eyepiece, side facing quintuple nosepiece, CCIS planachromatic objective PL4X, LWD CCIS planachromatic phase objective Ph10X, LWD PL Ph20X, LWD PL Ph40X, ELWD N.A. 0.30 condenser, centerable phase slider with PH1, PH3, and bright field, phase centering telescope, plain stage equipped with attachable mechanical stage with well plate holders (128X86mm), glass and metal stage inserts, 32mm, 54mm, and 65mm Petri dish holders, eXternally mounted centerable 6V/30W Koehler illumination with intensity control, 45mm blue ground glass and green interference filter, power cord, allen heXagonal key, vinyl dust cover, and universal power supply (100–240V). Complete Epifluorescence attachment includes, Epifluorescence attachment with filter cassette, mercury lamp (100W), lamphouse HBO (100W), collector lens and mercury lamp socket, starter unit HBO (100W), and lamp centering tool. DAPI, FITC, and TRITC filter cubes included.

C-UL, UL Listed. CSA certified.

Microscope is supplied with all accessories listed above. The microscope is also supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VWR® Inverted Fluorescence Microscope</strong></td>
<td><strong>89404-464</strong></td>
</tr>
</tbody>
</table>
### VWR® Trinocular Inverted Microscope

The VWR® Trinocular Inverted Microscope is the ideal device for live cell and advanced applications, as well as routine laboratory, research, and educational needs.

The VWR® Trinocular Inverted Microscope features a Trinocular Siedentopf trinocular tube with 45° inclination (Light Split = 20/80), Wide Focus PL 10x/22mm high eyepoint eyepiece, side facing quintuple nosepiece, CCIS planachromatic objective PL4X, CCIS planachromatic phase objective Ph10x, LWD PL Ph20x, LWD PL Ph40x, ELWD N.A. 0.30 condenser, centrable phase slider with PH1, PH3, and bright field, phase centering telescope, plain stage with attachable mechanical stage with well plate holders (128x86mm), glass and metal stage inserts, 32mm, 54mm, 65mm Petric dish holder, externally mounted centerable 6V/30W Koehler illumination with intensity control, 45mm blue ground glass and green interference filter, power cord, allen hexagonal key, vinyl dust cover, and universal power supply (100–240V).

C-UL, UL Listed. CSA certified.

Microscope is supplied with all accessories listed above. The VWR® Trinocular Inverted Microscope is supplied with a one-year warranty on electrical parts, and a five-year warranty on mechanical parts and optics.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VWR® Trinocular Inverted Microscope</td>
<td>89404-462</td>
</tr>
</tbody>
</table>
Canadian scientists have found a way to analyze air from the ancient Earth’s atmosphere that was trapped in salt crystals nearly a billion years ago.

What they found may have implications for the origin of complex life.

The air, which has been preserved, undisturbed, in tiny pockets in the crystals for about 815 million years, appears to contain 10.9 per cent oxygen — just half the amount in the atmosphere today.

But it’s about five times more than scientists expected for that time period, which is about 200 million years before the first known multicellular fossils.

“I’m surprised and excited,” said Nigel Blamey, a professor of earth sciences at Brock University in St. Catharines, Ont., who co-led the study with fellow Brock geochemist Uwe Brand.

Brand says the discovery answers a key question about the evolution of complex life — did animals arise before or after the oxygen needed to support larger, more complex organisms?

“And now with our research and our result, we know there was sufficient oxygen before they arose,” he said, adding that the higher oxygen levels would have allowed animals to diversify and become more complex.

That means it may be possible to find multicellular fossils older than the oldest that are currently known.
“Now paleobiologists will have reason to go looking for rocks with original traces of these first evolutionary steps,” Brand said.

The team’s results are published in the journal Geology.

ACETONITRILE
Cyanomethane, Ethanenitrile, Methyl cyanide, Ethanoic acid nitrile

Formula: H₃CCN
M.W. 41.05 g/mol
CAS: 75-05-8
ADR: 3.II
Index: 608-001-00-3
UN: 1648

Acetonitrile, HiPerSolv CHROMANORM®
Super gradient for HPLC

From the exclusive family of high-quality, competitively-priced BDH Chemicals — high purity solvents for HPLC applications. These solvents are manufactured at a state of the art European ISO 9001/ISO 14001 solvent production facilities and feature an unparalleled combination of performance and price for even the most demanding liquid chromatography applications

Assay ................................................................................................................. Min. 99.9 %
Solution (100 g/L) ............................................................................................................................ Neutral
Coloration ................................................................................................................ Max. 10 APHA
Evaporation Residue ........................................................................................................ Max. 2 ppm
Water ................................................................................................................................. Max. 30 ppm
Absorbance (200 nm) ........................................................................................................ Min. 0.10
Transmittance (210 nm) ........................................................................................................ Min. 96 %
Transmittance (220 nm) ........................................................................................................ Min. 97 %
Transmittance (230 nm) ........................................................................................................ Min. 98 %
Transmittance (240 nm) ........................................................................................................ Min. 99 %
Transmittance (250 nm) ........................................................................................................ Min. 99 %
Fluorescence (as quinine) (354 nm) .................................................................................. Max. 1 ppb
Gradient grade (210 nm) ...................................................................................................... Max. 10 mAU
Conforms to ACS: Passes Test
Conforms to AOCS CPIHC/4V: Passes Test
Conforms to Reag. Ph. Eur.: Passes Test
Conforms to USP: Passes Test

Size Packaging Cat. No.
4 L Amber Glass Bottle CAH3639.400

NITRIC ACID (65 - < 70%)

Formula: HNO₃
M.W. 63.01 g/mol
CAS: 7697-37-2
ADR: 8.II
Index: 007-004-00-1
UN: 2031

Nitric Acid, Environmental Grade Plus

Assay ................................................. 67 - 70%
Aluminum (Al) .................. 20 ppt max.
Antimony (Sb) .................. 10 ppt max.
Arsenic (As) ................. 20 ppt max.
Barium (Ba) ............... 10 ppt max.
Beryllium (Be) ............. 10 ppt max.
Bismuth (Bi) ................. 10 ppt max.
Boron (B) ............... 10 ppt max.
Cadmium (Cd) ........... 10 ppt max.
Calcium (Ca) .............. 10 ppt max.
Cerium (Ce) ............ 10 ppt max.
Cesium (Cs) ............. 10 ppt max.
Chromium (Cr) ........ 10 ppt max.
Cobalt (Co) ............ 10 ppt max.
Copper (Cu) .............. 10 ppt max.
Dysprosium (Dy) .......... 1 ppt max.
Erbrum (Er) .......... 1 ppt max.
Europium (Eu) ....... 1 ppt max.
Gadolinium (Gd) .. 1 ppt max.
Gallium (Ga) ....... 10 ppt max.
Germanium (Ge) .... 10 ppt max.
Gold (Au) .......... 20 ppt max.
Hafnium (Hf) ......... 10 ppt max.
Holmium (Ho) .... 1 ppt max.
Indium (In) ......... 1 ppt max.
Iron (Fe) ............ 10 ppt max.
Iridium (Ir) .......... 1 ppt max.
Lanthanum (La) .. 10 ppt max.
Lead (Pb) ............. 10 ppt max.
Lithium (Li) .......... 10 ppt max.
Lutetium (Lu) ........ 1 ppt max.
Manganese (Mn) ... 10 ppt max.
Magnesium (Mg) ........ 10 ppt max.
Mercury (Hg) ....... 50 ppt max.
Molybdenum (Mo) .. 10 ppt max.
Neodymium (Nd) .... 1 ppt max.
Nickel (Ni) ............ 20 ppt max.
Niobium (Nb) .... 1 ppt max.
Palladium (Pd) .... 20 ppt max.
Platinum (Pt) ....... 20 ppt max.
Potassium (K) ...... 10 ppt max.
Praseodymium (Pr) ... 1 ppt max.
Rhenium (Re) ...... 10 ppt max.
Rhodium (Rh) .... 10 ppt max.
Rubidium (Rb) .... 10 ppt max.
Ruthenium (Ru) ... 20 ppt max.
Samarium (Sm) .... 1 ppt max.
Scandium (Sc) ....... 10 ppt max.
Scandium (Sc) ....... 10 ppt max.
Silver (Ag) ........... 10 ppt max.
Sodium (Na) ........ 10 ppt max.
Strontium (Sr) .... 10 ppt max.
Tantalum (Ta) ........ info only
Tellurium (Te) .... 1 ppt max.
Terbium (Tb) .......... 1 ppt max.
Thallium (Tl) .......... 1 ppt max.
Thorium (Th) ...... 1 ppt max.
Thulium (Tm) ...... 1 ppt max.
Tin (Sn) ............. 20 ppt max.
Titanium (Ti) ....... 10 ppt max.
Tungsten (W) ..... 10 ppt max.
Uranium (U) ...... 1 ppt max.
Vanadium (V) .... 10 ppt max.
Ytterbium (Yb) ... 1 ppt max.
Yttrium (Y) ...... 1 ppt max.
Zinc (Zn) ....... 10 ppt max.
Zirconium (Zr) ... 10 ppt max.

Size Packaging Cat. No.
2 L Teflon Bottle CAH71007-852
VWR Life Science AMRESCO Serafree™ Cryopreservation Media

- Sterile and endotoxin tested
- Reduces potential for transmission of infectious agents
- Eliminates regulatory compliance requirements associated with use of animal products
- Cost effective

SeraFree™ Cryopreservation Media is a ready-to-use freezing media for cryopreservation of adherent or suspension cultured cells. The animal-free RPMI or DMEM based media composition eliminates batch-to-batch variability and are optimized for cell viability and cell growth after thawing.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERAFREE™ CRYOPRESERVATION MEDIA (RPMI)</td>
<td>CA97064-278</td>
</tr>
</tbody>
</table>

VWR Life Science
AMRESCO Agarose I™

A standard melting/gelling agarose, suitable for routine nucleic acid analytical/preparative applications.

A standard melting/gelling agarose, suitable for routine nucleic acid analytical/preparative applications. It has a low EEO for shorter electrophoretic runs without compromising resolution. Excellent for blotting techniques and general manipulations.

<table>
<thead>
<tr>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500g</td>
<td>CA97062-250</td>
</tr>
</tbody>
</table>

DTT (DI-Dithiothreitol)
Biotechnology Grade

An excellent reagent for maintaining SH groups in reduced state; quantitatively reduces disulfides. DTT is effective in sample buffers for reducing protein disulfide bonds prior to SDS-PAGE. DTT can also be used for reducing the disulfide bridge of the cross-linker N,N′-bis(acryloyl)cystamine to break apart the matrix of a polyacrylamide gel. DTT is less pungent and is less toxic than 2-mercaptoethanol. Typically, a seven fold lower concentration of DTT (100 mM) is needed than is used for 2-mercaptoethanol (5% v/v, 700 mM).

<table>
<thead>
<tr>
<th>Size</th>
<th>Packaging</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 g</td>
<td>HDPE Bottle</td>
<td>CA97061-338</td>
</tr>
</tbody>
</table>

VWR Life Science Dulbecco's Modified Eagle's Medium (DMEM)

Dulbecco's Modified Eagle's medium (DMEM) is a modification of Basal Medium Eagle (BME) which contains approximately four times as much of the vitamins and amino acids and two to four times as much glucose as the original formulation.

VWR Life Science Dulbecco's Phosphate Buffered Saline (DPBS)

DPBS is a balanced salt solution (BSS) used for the handling and culturing of mammalian cells. DPBS is a balanced salt solution (BSS) used for the handling and culturing of mammalian cells. DPBS is used to irrigate, wash, and dilute mammalian cells. Phosphate buffering maintains the pH in the physiological range. Calcium and magnesium facilitate cell binding and clumping. DPBS without these ions can be used to wash and rinse suspended cells.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPBS (1X) w/out Ca, w/out Mg</td>
<td>1000 mL</td>
<td>VWRL0119-1000</td>
</tr>
</tbody>
</table>

Customer Loyalty Incentive Program | 1.800.932.5000 | www.vwrloyalty.ca
### VWR Life Science AMRESCO Ficoll 400, Biotechnology Grade

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEP Bottle</td>
<td>100 g</td>
<td>CA11019-202</td>
</tr>
</tbody>
</table>

### VWR Life Science L-Glutamine, 200mM (100X)

L-glutamine is an essential amino acid used as an energy source for cells in cell culture. It is used as an energy source for cells in cell culture. L-glutamine is stable as a dry powder and as a frozen solution but degrades rapidly in liquid media or stock solutions.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Glutamine, 200mM (100X)</td>
<td>100 mL</td>
<td>VWRL0131-0100</td>
</tr>
</tbody>
</table>

### VWR Life Science RPMI 1640

RPMI-1640 is a formulation based on the RPMI-1630 series of media, demonstrating wide applicability for supporting growth of many types of cultured cells. RPMI-1640 was developed by Moore et. al. at Roswell Park Memorial Institute, hence the acronym RPMI. The formulation is based on the RPMI-1630 series of media utilizing a bicarbonate buffering system and alterations in the amounts of amino acids and vitamins. RPMI-1640 medium has been used for the culture of human normal and neoplastic leukocytes. RPMI-1640, when properly supplemented, has demonstrated wide applicability for supporting growth of many types of cultured cells.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPMI 1640 w/ L-Glutamine</td>
<td>VWRL0105-0500</td>
</tr>
</tbody>
</table>

### VWR Life Science Hank’s Balanced Salt Solution (HBSS)

Hank’s Balanced Salt Solution (HBSS) is a buffer used to maintain a physiological pH for cells maintained in non-CO2 atmospheric conditions. Hank’s Balanced Salt Solution (HBSS) is a buffer used to maintain a physiological pH for cells maintained in non-CO2 atmospheric conditions. HBSS can be used for washing cells or as a solution for transporting cells and tissue culture.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBSS (1X) w/out Ca, w/out Mg, w/out Phenol Red</td>
<td>500 mL</td>
<td>VWRL0121-0500</td>
</tr>
</tbody>
</table>

### VWR Life Science Trypsin (0.25%) EDTA (1X)

Trypsin (0.25%) EDTA (1X) is used to release adherent cells from tissue culture plasticware for harvesting and passaging. Contains 0.001% phenol red, 0.04% Trypsin, 0.25% EDTA.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trypsin (0.25%) EDTA (1X)</td>
<td>100 mL</td>
<td>VWRL0154-0100</td>
</tr>
</tbody>
</table>

#### Dependable, Knowledgeable, and Friendly Service

From ordering to fulfillment to delivery, VWR has developed a talented team of experts to provide you with the support and expertise to get you what you need, whenever and wherever you need it. One call gets you a live, North-America based Customer Care Expert – not a voicemail. Call 1.800.932.5000 for more information.
The marine mammals form clans with their own unique dialects, a new study says.

Shane Gero and his team have discovered that each sperm whale social group in the region has its own clicking pattern, or dialect. What’s more, each sperm whale that Gero observed socializes exclusively with other sperm whales that have the same accent. The finding strengthens the idea that sperm whales throughout the world have different cultures, just like people.

“They all do the same things,” says Gero, a behavioral ecologist and founder of the Dominica Sperm Whale Project. “They feed, they care for their families, they make really, really deep dives. But the way that they do all these things is different based on their culture.

“The main way we identify these different cultures is their dialects,” he says.

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Whether you’re looking to build a new lab or renovate an existing one – check out VWR’s all new Furniture Catalog!

Find innovative storage ideas, modular benches, fixed casework, and functional seating and accessories – all from one quick, convenient source. VWR offers a full line of quality lab furniture and components, along with a complete turn-key service offering that can help you with lab planning, design, and installation.
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Analytical Chemistry
Cell Culture
Food Analysis
Genomics
Proteomics

Handy reference tools for your application or technique

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Guaranteed Stock!

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