



# Anatomical Pathology

Solutions for Laboratories

Histology  
Cytology  
Immunohistochemistry  
Digital Pathology



Dear Valued EpreDia Customer,

It's nice to meet you again! Our name may be new, but our legacy isn't. For nearly a century we have been committed to the development of groundbreaking technologies, to excellence in quality, and to enabling you to achieve diagnostic excellence. That commitment continues today.

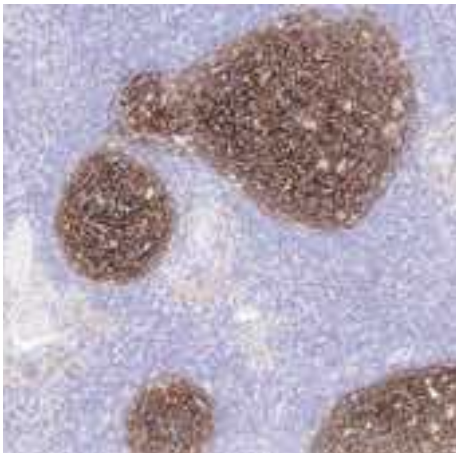
EpreDia is a global company enabling precision cancer diagnostics powered by some of the most respected names in the industry – Shandon, Richard-Allan Scientific, Microm, Menzel-Glaser, and others. Together, these brands represent the entire histology workflow, from specimen collection to processing, sectioning to staining, and advanced imaging to archiving.

In this catalog you will find a comprehensive offering of workflow solutions for histology, cytology, immunohistochemistry, and digital pathology. Every product and service developed has been impacted by generations of employees who are committed to improving lives by enabling pathologists through enhancing precision cancer diagnostics.

What you do matters, and we're here to support you. It is a pleasure to serve you at EpreDia.



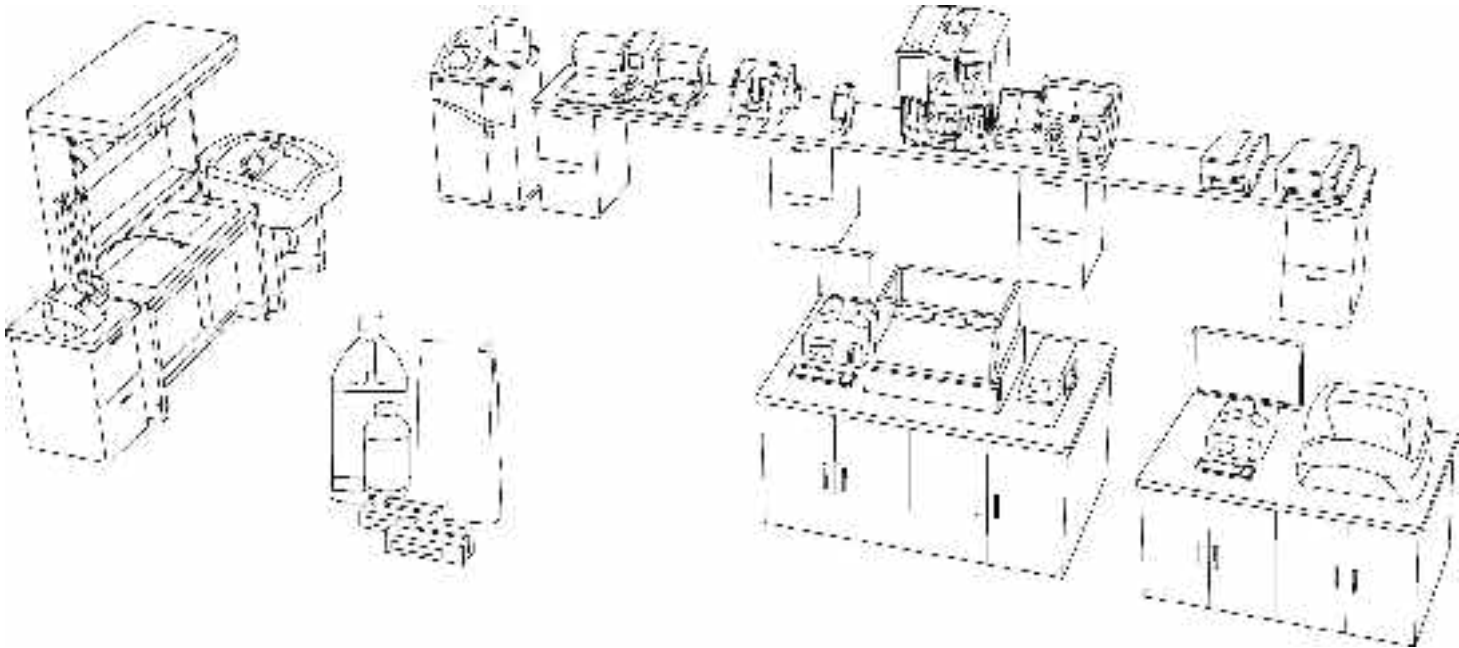
# Contents

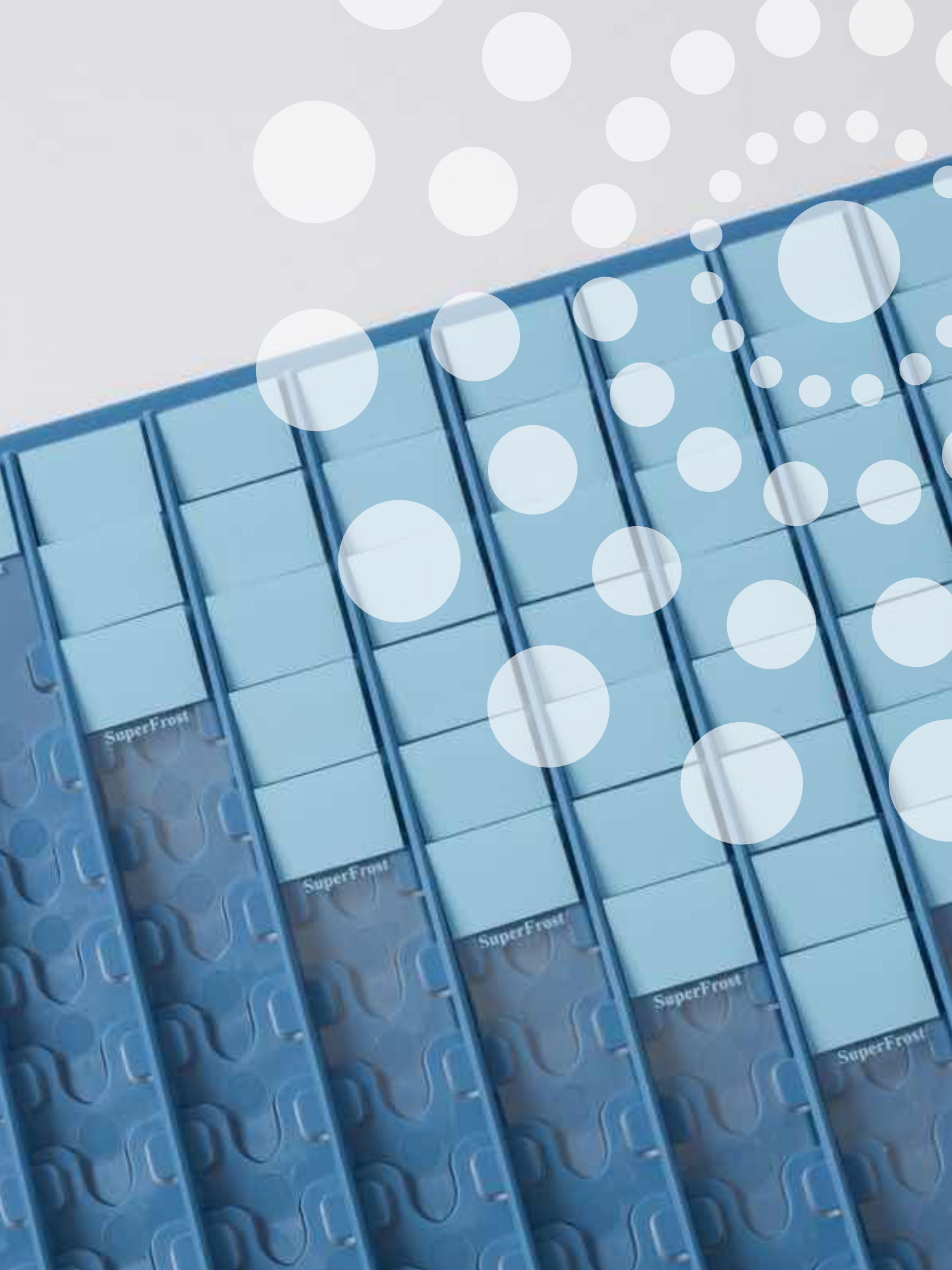


Labeling and Tracking	10
Tissue Processing and Embedding	24
Cryotomy	54
Microtomy	70
Staining	88
Coverslipping	128
Cytology	142
Immunohistochemistry	162
Archiving and Storage	186
Digital Pathology	204
Stand-Alone Consumables	216
Technical Support	6
Instrumentation Support	7
IHC Technical Support	8
Customer Service / Orders	9
Trademark Information	227

# Contents

Click on the workflow you wish to navigate to







## You Have Questions, We Have Answers

Our factory trained support team includes technical, software, and laboratory applications professionals who are dedicated to solving your problems quickly in order to provide lasting solutions. We understand patient care depends on our equipment functioning at its best – we are here to help.

### How can our products serve your specific needs?

Laboratory Applications Specialists provide comprehensive application support for EpreDia Anatomical Pathology instruments and consumable products.

- Assist with optimizing protocols or procedures when using EpreDia instruments or consumables
- Provide a level of troubleshooting expertise that is based upon a combination of real laboratory experience and industry experience
- Department members are ASCP certified in histology and hold a variety of educational degrees

### Using your instruments to their maximum potential

Field Laboratory Applications Specialists are available for installation and comprehensive customer-site training for a wide variety of EpreDia laboratory equipment and related software applications.

### Troubleshooting your EpreDia instrument

Our in-house Technical and Software Support Representatives go through rigorous factory training to troubleshoot instrument issues, provide assistance, and answer general questions. This ensures you receive the support you need for the instruments you use.

## Direct Technical and Application Support (N. America)

<b>Direct Technical Support</b>	<b>US: (800) 522-7270 – Option 2</b>
Technical Phone and Email Support by Product Group	<b>Secondary Phone Options:</b> - Option 1 Tissue processing <sup>†</sup> , embedding centers  - Option 2 Microtomes, cryostats  - Option 3 PrintMate, SlideMate, software support for labeling and tracking  - Option 4 Stainers, coverslippers, all other equipment  Email: service.ap.usa@thermofisher.com
Hours of Operation, Excluding US Holidays:	<b>Monday through Friday, 8 a.m. – 5 p.m. EST</b>
<b>Direct Application Support</b>	<b>(800) 522-7270 – Option 3</b>
Application Phone Support by Product Group	<b>Secondary Phone Options:</b> - Option 1 Consumable and Instrument applications  - Option 2 Digital Pathology  - Option 3 IHC Support
Hours of Operation, Excluding US Holidays:	<b>Monday through Friday, 8 a.m. – 5 p.m. EST</b>

<sup>†</sup>We offer on-call support after hours for technical emergencies that involve tissue at risk.

# Service When and Where You Need it Most

## We come to you

Should your instrument need service, we will send one of our factory-trained Field Service Engineers directly to your facility as soon as possible. Have confidence your instrument will be repaired in a timely manner and perform to your satisfaction.

- National coverage through a network of EpreDia Field Service Engineers
- Our Engineers are factory trained and certified. They ensure that all necessary updates and preventative procedures are carried out correctly, keeping your instrumentation up to date.
- We ensure only genuine factory replacement parts are used to repair your instrument

Our instruments come with a comprehensive parts and labor warranty (one full year for a new instrument).

## Dedicated to your workflow

If there is a situation in which we cannot complete service at your facility, we will arrange to have your instrument evaluated at a depot repair facility. Service will be completed by our in-house Engineers who are subject matter experts, ensuring that your instrument will be returned to your laboratory as quickly as possible.

## Service Administration (Europe\*)

<b>UK</b>	<b>Tel: +44 (0) 1928 534072</b> <b>Email: <a href="mailto:service.apd.uk@thermofisher.com">service.apd.uk@thermofisher.com</a></b>
<b>Germany</b>	<b>Tel: +49 (0) 6103 408 1276</b> <b>Email: <a href="mailto:service.apd.de@thermofisher.com">service.apd.de@thermofisher.com</a></b>
<b>BeNeLux</b>	<b>Netherlands Tel: +31 (0) 76 579 5184</b> <b>Belgium Tel: +32 (0) 800 30920</b> <b>Email: <a href="mailto:service.apd.bnl@thermofisher.com">service.apd.bnl@thermofisher.com</a></b>

## Direct Technical and Application Support (Europe\*)

<b>Direct Technical Support Europe</b>	<b>Tel: +44 (0) 1928 534050</b> <b>Email: <a href="mailto:techsupport.ap.runcom@thermofisher.com">techsupport.ap.runcom@thermofisher.com</a></b>
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\*UK, Germany, Belgium, Netherlands, Luxembourg only. For all other EMEA regions please contact your local EpreDia distribution partner



# Support For Your Immunohistochemistry Instruments

## IHC Support (N. America)

To contact the IHC Technical Support:	<b>(800) 522-7270 – Option 3, Option 3</b> *N. America only
Email:	<b>lab.reagents@thermofisher.com</b>
Hours of Operation, Excluding Holidays:	<b>8:00 a.m. – 5:00 p.m. EST</b>



## What assistance is provided to me regarding my Immunohistochemistry (IHC) instruments?

Your diagnosis is crucial and you depend on your equipment functioning at its best. We have a dedicated team of professionals on call, supported by a team of pathologists, IHC experts, Field Applications Specialists, and Field Service Engineers to assist with your IHC-related inquiries.

- Provide effective troubleshooting and timely issue resolution for EpreDia IHC instrumentation and consumable products
- Assist with selection of antibodies, detection systems and protocol optimization
- Provide high-level support based upon access to specific product history records, including Quality Control (QC) data and pathologist reviews

### Please call our IHC Applications Specialists for:

- IHC reagent troubleshooting and technical tips
- Autostainer troubleshooting, preventative maintenance and service requests
- IHC protocol assistance
- Technical product information



# Do Business with a Partner You Can Rely On

## How can I learn more about EpreDia Anatomical Pathology products?

When you call into our Customer Care Department, your call will be answered by a live person – world-class response by highly trained Customer Care Service Representatives who are passionate about your business!

## I'm ready to place an order

We know that your time is valuable and you want to do business with a partner you can rely on. Contact your local EpreDia Sales Representative or call our Customer Care team to start your order today.

### Do you have items that you order the same quantity of on a weekly or monthly basis?

Standing orders are easy to set up and save you time. Ask your Customer Care professional today!

### Can I fax or email my order?

Faxed or emailed orders are entered into our ordering system within eight business hours of receipt. For order accuracy and improved billing, please validate your purchase order for:

- Accurate “ship to” and “bill to” addresses
- Your contact information, including fax and phone numbers and email address
- Special shipping and handling instructions
- Auto confirmation through email
- Payment terms of Net 30
- Vendor information:

EpreDia  
4481 Campus Drive  
Kalamazoo, MI 49008

OR Remit to:  
98194 Collection Ctr. Drive  
Chicago, IL 60693

## Orders and Order Status

### North America

Call-in Orders and Order Status:	<b>(800) 522-7270 (Option 1)</b>
Hours of Operation, Excluding US Holidays:	<b>Monday through Friday, 8 a.m. – 5 p.m. EST</b>
Faxing Your Purchase Order?	<b>Toll free fax: (877) 815-2608</b>
Emailing Your Purchase Order?	<b>cs.apd.kalamazoo@thermofisher.com</b>

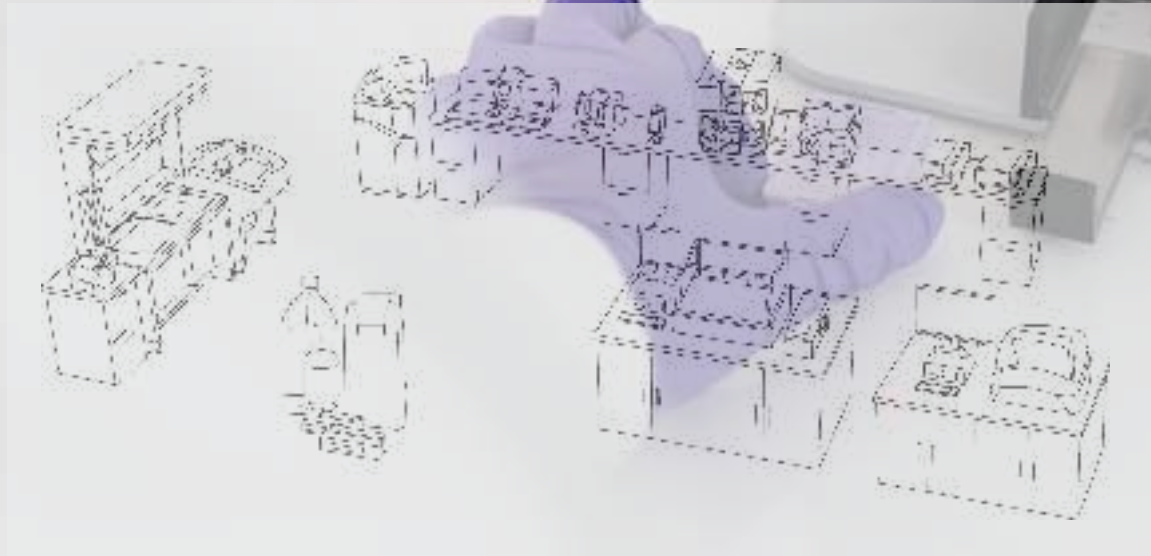
### Europe, Middle East, and Africa (EMEA\*)

Customer Service Germany	<b>Tel: +49 (0) 6103 / 408 1149 Fax: +49 (0) 6103 / 408 1212 Email: sales.ap.dreieich@thermofisher.com</b>
Customer Service UK	<b>Tel: 0800 018 9396 Email: sales.ap.uk@thermofisher.com</b>
Customer Service BeNeLux	<b>Tel Belgium: +32 (0)800 30920 Tel Netherlands: +31 (0)76 579 5184 Email: sales.apd.bnl@thermofisher.com</b>
Order Management and Logistics	<b>ordermanagement.runcorn@thermofisher.com</b>

\*UK, Germany, Belgium, Netherlands, Luxembourg only. For all other EMEA regions please contact your local EpreDia distribution partner

# Workflow Solutions

protecting  
your  
workflow



## Simplify and Strengthen Your Workflow Process

A high proportion of the errors made in histology laboratories are caused by inadequate methods for labeling and tracking cassettes and slides. The PrintMate AS™ cassette printer and SlideMate AS™ slide printer are the third generation of labeling equipment, that when used with PrintMate cassettes and slides, are designed to maximize accuracy while streamlining workflow and improving efficiency.

### Small Footprint with Big Impact

- Ideal for on-demand labeling right at the grossing station or microtome, leading to lower error rates than traditional batch printing
- Print as few as one cassette or one slide and avoid mismatched pairing
- PrintMate AS optional collection system captures cassettes in trays for organized batch printing

### Solid Security

- The simple method of communicating with the Laboratory Information System provides a secure method of obtaining the details to be printed
- PrintMate AS and SlideMate AS can be used as intelligent stand-alone printers capable of accepting data from a bar code or typed input

### Total Care Program

- The new range of cassettes and slides have been designed for optimal use with all EpreDia instruments to establish an easily-maintained, accurate workflow
- Extended service contracts through the Total Care Program support your lab with twice yearly preventative maintenance visits with the aim of eliminating lost time due to breakdowns





## Physical Specifications

Dimensions without cassette tubes  
(D x W x H):  
15 x 17.13 x 11.4 in.  
(38 x 43.5 x 29 cm)

Dimensions with cassette tubes  
(D x W x H):  
15 x 17.13 x 31.89 in.  
(38 x 43.5 x 81 cm)

Weight:  
37.5 lbs. (17 kg) with tubes

Power requirements:  
100-240 V, 50-60 Hz

## Printing Specifications

Input cassette capacity:  
PrintMate AS 150, 150 cassettes;  
PrintMate AS 450, 450 cassettes;  
PrintMate AS 900, 900 cassettes

Printing media: Black thermal  
transfer ribbon

Printing media capacity: 1 roll =  
20,000 cassettes (approximately)

Printing speed: 10 seconds per  
cassette (approximately)

## PrintMate AS Cassette Printer

### Lean Workflow and Error Reduction in Your Laboratory

- Fast print speed matches your grossing workflow
- High-quality print means that every cassette is clearly marked with easy-to-read, permanent black type. Enhanced accuracy of sample integrity contributes to improved patient care
- The small size of the PrintMate AS™ cassette printer allows it to fit easily next to the grossing area, providing greater flexibility in determining the optimal workflow solution for your laboratory
- Cassettes are pre-heated for the ultimate print performance
- PrintMate AS cassette printer can be used as an on-demand or batch printer in any size laboratory
- Optional dual-track collection system collects up to 100 cassettes in organizer trays – the trays are easily stacked and simplify matching cassettes to specimen containers
- PrintMate AS cassette printer allows for the use of a wide variety of PrintMate cassettes from EpreDia

### Print-on-Demand Capabilities

- Prints large batches or single cassettes using standard or custom configurations
- Simple method of obtaining data from a LIS
- Software can alternatively use barcodes from a requisition form or specimen container to automatically print cassettes, reducing errors caused by manual data entry
- Preview window lets you see what is about to be printed
- Can provide records of print jobs to help manage your staff and workflow

### Adhere to Regulatory Requirements

- As requirements for cassette labeling change, the PrintMate AS cassette printer can continue to comply with new regulations and maintain your laboratory accreditation.

Description	Order Number
PrintMate AS 150 cassette printer (2 hoppers)	A83800001
PrintMate AS 450 cassette printer (6 hoppers)	A83800002
PrintMate AS 900 cassette printer (12 hoppers)	A83800003
Includes Printmate AS, USB Cable, power cable, 2, 6, or 12 cassette hoppers, one roll of tape (installed), EpreDia™ LabWriter™ software CD, operator guide, setup and installation	
PrintMate AS 150 cassette printing system (2 hoppers)	A83800004
PrintMate AS 450 cassette printing system (6 hoppers)	A83800005
PrintMate AS 900 cassette printing system (12 hoppers)	A83800006
Includes Printmate AS, USB Cable, power cable, 2, 6, or 12 cassette hoppers, one roll of tape (installed), EpreDia™ LabWriter™ software CD, operator guide, all-in-one-PC, and digital imager, setup and installation	

Accessories	Order Number
Collection system (includes cable, 4 trays for cassettes, output guides)	A79510014
Collection trays (box of 4)	A79510022
Thermal transfer ribbon, box of 5 rolls	A79510013
All-in-one touchscreen PC	B81300033
Digital imager (linear/2D barcode reader)	B35310050
Cassette hopper (ea.)	A79510024



### Dispensing System

- Dispensing system for reliable dispensing of cassettes



### Collection Tray

- PrintMate AS with collection system

## Total Care Package

The PrintMate AS Total Care Package offers workflow protection as never before. It offers a complete solution, combining the PrintMate AS on-demand cassette printer with cassettes and total care service support.

### EpreDia Cassettes

All-new surface finish and reinforced print faces are built to optimize quality when used with the PrintMate AS cassette printer.

### Total Care Service Support

The PrintMate AS Total Care Package includes three years of service support – one year warranty and two years extended service. Total Care Package customers receive two preventative visits per year for three years. At these visits, wear components are automatically replaced to ensure reliable operation and uninterrupted workflow.

### You'll need:





## Cassettes

The entire range of cassettes has been redesigned for better performance – both in printing and in laboratory processes.

- The all-new surface finish and reinforced print faces are built to optimize print quality when used with PrintMate AS cassette printers
- All-new PrintMate AS-compatible tubes are precisely engineered to reduce jamming and prevent downtime
- Opening and closing forces have been carefully adjusted for ease of use, while safeguarding valuable specimens during processing
- All cassette designs have been comprehensively validated for print quality, processing quality, and reliability in embedding and sectioning
- New 12-color range selected for scanning reliability



### PrintMate Embedding Cassette

- Pore style: Round holes
- For routine specimens
- Lid hinge: Reversible



### PrintMate Slotted Cassette

- Pore style: Slotted
- For routine specimens
- Lid hinge: Reversible



### Thinline Slotted Cassette

- Pore style: Slotted
- For routine specimens
- Lid hinge: Front edge



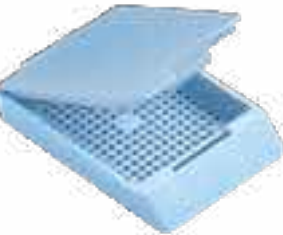
## Slotted Cassette 2

- Pore style: Slotted
- For routine specimens
- Lid hinge: Front edge



## TissueLoc™ Cassette (Cassette IV)

- Pore style: Slotted
- For routine specimens
- Lid hinge: Back edge
- Large tab for easy opening



## PrintMate Biopsy Cassette

- Pore style: Small squares
- For biopsy specimens
- Lid hinge: Reversible



## Thinline Biopsy Cassette

- Pore style: Small square
- For biopsy specimens
- Lid hinge: Front edge



## Biopsy Cassette 2

- Pore style: Small square
- For biopsy specimens
- Lid hinge: Front edge



## TissueLoc Biopsy Cassette (Cassette IV)

- Pore style: Small square
- For biopsy specimens
- Lid hinge: Back edge
- Large tab for easy opening



## HistoScreen™ Cassette

- Pore style: Mesh
- For very small biopsy specimens
- Eliminates need for sponges or bags
- Lid hinge: Back edge



## Fine Pore Cassette

- Pore style: Small holes
- For very small biopsy specimens
- Lid hinge: Front edge

Accessories	Order Number
<b>PrintMate Embedding Cassette</b>	
1,000 cassettes, loose, with no lids – for use with metal lids	B851040
750 cassettes, 10 tubes of 75 cassettes, with no lids – for use with metal lids	B851010
1,000 cassettes, loose, with loose-packed lids	B851070
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851100
Metal lids for cassettes*	1001003
<b>PrintMate Slotted Cassette</b>	
1,000 cassettes, loose, with loose-packed lids	B851090
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851120
<b>Thinline Slotted Cassette</b>	
750 cassettes, 10 tubes of 75 cassettes, with color-matched, attached lids	B851736
<b>Slotted Cassette 2</b>	
1,000 cassettes, loose, with attached lids	B851739
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851729
<b>TissueLoc Cassette (Cassette IV)</b>	
1,000 cassettes, loose, with attached lids	B851954
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851720

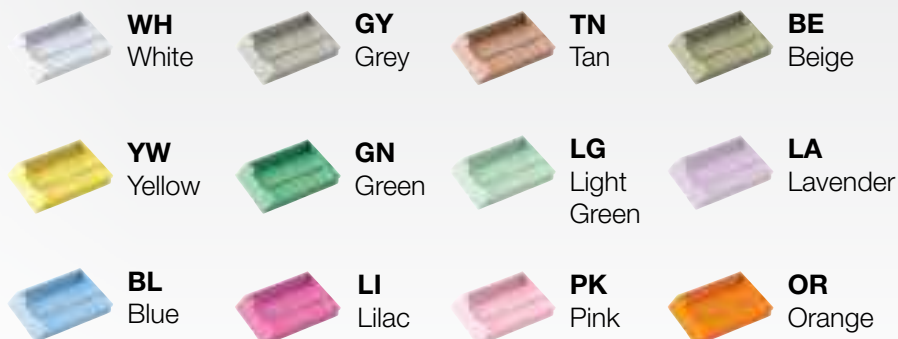
Accessories	Order Number
<b>PrintMate Biopsy Cassette</b>	
1,000 cassettes, loose, with attached lids	B851080
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851110
<b>Thinline Biopsy Cassette</b>	
750 cassettes, 10 tubes of 75 cassettes, with color-matched, attached lids	B851737
<b>Biopsy Cassette 2</b>	
1,000 cassettes, loose, with attached lids	B851738
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851730
<b>TissueLoc Biopsy Cassette (Cassette IV)</b>	
1,000 cassettes, loose, with attached lids	B851925
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851750
<b>HistoScreen Cassette</b>	
1,000 cassettes, loose, with attached lids	B851000
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851001
<b>Fine Pore Cassette</b>	
1,000 cassettes, loose, with color-matched, attached lids	B851735
750 cassettes, 10 tubes of 75 cassettes, with color-matched, loose-packed lids	B851734

\*Not available for purchase in EMEA

## Ordering is easy.

Simply select your cassette and configuration number above, add the two digit color code from below.

Example: Light Green TissueLoc Biopsy Cassette in tubes = B851750LG





## SlideMate AS Slide Printer

The SlideMate AS on-demand slide printer promotes single-piece workflow through unique features designed specifically for on-demand printing.

### Reduce Patient Identification Errors

- Smaller footprint than previous models, making it easier to fit next to the microtome
- Fully integrated color touch screen and easy-to-use intuitive software
- Built-in barcode scanner reads cassette information and imports data to the slide label
- Easily optimize print quality of adhesion and non-adhesion slides by saving individual heat settings

### Enhance Lean Workflow

- Connects easily to other computers or Laboratory Information Systems
- Prints directly onto the slide
- High-quality printing of text, numbers and barcodes (linear and 2D)
- Flexible data input methods allow integration into the laboratory workflow
- Chemical resistant media ensures print durability

### Connectivity

- Ethernet, Wi-Fi, USB-A (2), USB-B (1)

### Physical Specifications

Dimensions:  
(D x W x H):  
7.9 x 5.5 x 11.6 in.  
(20 x 14 x 29.5 cm)

Weight:  
8.3 lbs. (3.78 kg)

Power requirements:  
100-240 VAC, 50-60 Hz, 1.2A

### Printing Specifications

Printing media: Black thermal transfer ribbon (25 mm wide)

Printing media capacity: 1 roll = 12,000 slides (approximately)

Printing speed: 3-5 seconds per slide

Slide type: 1 x 3 in.  
or 25 x 75 x 1 mm



Description	Order Number
<b>SlideMate AS basic printer</b>	<b>A83900001</b>
SlideMate AS basic printer with color touch-screen, power supply, power cord, and Windows Printer Driver software to print externally generated slide label from an image file	
<b>SlideMate AS basic printing system</b>	<b>A83900002</b>
SlideMate AS basic printer with slide delivery system, color touch-screen, power supply, power cord, and Windows Printer Driver software to print externally generated slide label from an image file	
<b>SlideMate AS on-demand printer</b>	<b>A83900004</b>
SlideMate AS on-demand printer with color touch-screen, built-in scanner, WI-FI, power supply, power cord, and advanced software enabling label creation, special panel printing, and import from LIS	
<b>SlideMate AS on-demand printing system</b>	<b>A83900005</b>
SlideMate AS on-demand printer with slide-delivery system, color touch-screen, built-in scanner, WI-FI, power supply, power cord, and advanced software enabling label creation, special panel printing, and import from LIS	

Description	Order Number
Thermal transfer ribbon	A83910001
Slide delivery system	A83910002
Spare slide hopper for slide delivery system	A83920016
Gateway software (one unit)	A83910005
Multi-gateway software (up to ten units)	A83910009
Head cleaning kit	A83910008

## Total Care Package

Efficiency and accuracy are hallmarks of today's leading laboratories. Now, the SlideMate AS Total Care Package offers workflow protection as never before. It offers a complete solution, combining the SlideMate AS on-demand slide printer with microscope slides and total care service support.

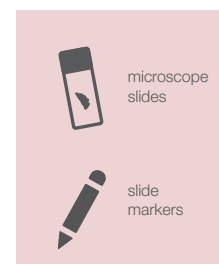
### Epredia Microscope Slides

Epredia Microscope slides are made from fine white glass, manufactured to high quality standards. The clarity achieved by our manufacturing process helps ensure high levels of transparency to aid in accurate diagnosis. All slides are pre-cleaned, thin, flat, and feature finely ground edges with a permanent tab for printing with the SlideMate AS.

### Total Care Service Support

The SlideMate AS Total Care Package includes three years of service support – one year warranty and two years extended service. Total Care Package customers receive preferential 24-hour service turnaround and will be sent a permanent SWAP unit to reduce any downtime.

#### You'll need:



## Microscope Slides

Our microscope slides are made from fine white glass, manufactured to high quality standards in our Swiss glass manufacturing plant. The clarity achieved by our manufacturing process helps ensure high levels of transparency to aid in accurate diagnosis. Our skilled glassmakers strive to create slides with lot-to-lot and box-to-box consistency. Fully integrated quality controls include several checkpoints for testing, ensuring high quality product for laboratory use. All slides are pre-cleaned, thin, flat, and feature finely ground edges. Each pack is wrapped to protect against humidity and moisture. Contact your local sales representative for more information.

### Superfrost and Colorfrost Slides

- Superfrost and Colorfrost™ Slides feature a durable, easy to write, print and label printed tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents
- Available in a wide variety of colors to ease identification

### Specialty Printed Slides

- Localize cells in an easily-identifiable area on the slide surface
- Wells are surrounded by a chemical and water-resistant hydrophobic ink mask
- Available in 1, 3, 8, 10, and 12-well configurations

### Polysine Adhesion Slides

- Adhesive coating attracts paraffin-embedded sections to slide surface
- Polysine slides are coated with a derivative of the chemistry for poly-l-lysine
- Feature a durable, easy to write, print, and read printed white tab
- Printed white tab is impervious to virtually all common laboratory chemicals and reagents

## Superfrost Excell Adhesion slides

- Superfrost Excell adhesion slides feature a unique chemistry with strong adhesion properties
- Useful in applications involving high pH Heat Induced Epitope Retrieval (HIER)
- Feature a durable, easy to write, print and read printed white tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents

## Superfrost Plus Gold Adhesion Slides

- Superfrost Plus Gold Adhesion Slides are made with a complex adhesive technology which attracts and chemically bonds fresh or formalin-fixed frozen tissue sections firmly to the surface of the slide
- Recommended for hard-to-hold tissue samples like bone, brain, breast and skin
- Feature a durable, easy to write, print and read printed white tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents

## SuperFrost Plus and ColorFrost Plus Adhesion Slides

- SuperFrost™ Plus and Colorfrost Plus adhesion slides are designed to secure tissue sections without the need for laboratory-applied coatings
- Slides secure frozen and formalin-fixed, paraffin embedded tissue sections as well as cytology preparations
- Each slide features a chemistry based on silane, although optimized to improve application performance
- Feature a durable, easy to write, print, and read printed tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents
- Available in a wide variety of colors to ease identification



## Markers



### **Diamond Point Marker**

- Writes indelibly on glass
- Mounted in aluminum pencil
- 5" (12.7 cm)

### **Richard-Allan Scientific Tissue Section Adhesive**

Richard-Allan Scientific Tissue Section Adhesive is pre-mixed and ready-to-use; adhesive will not interfere with staining reactions.

- Use in the water bath to increase the affinity of the tissue for the slide
- Does not create background residue
- Improves adhesion for techniques utilizing heat

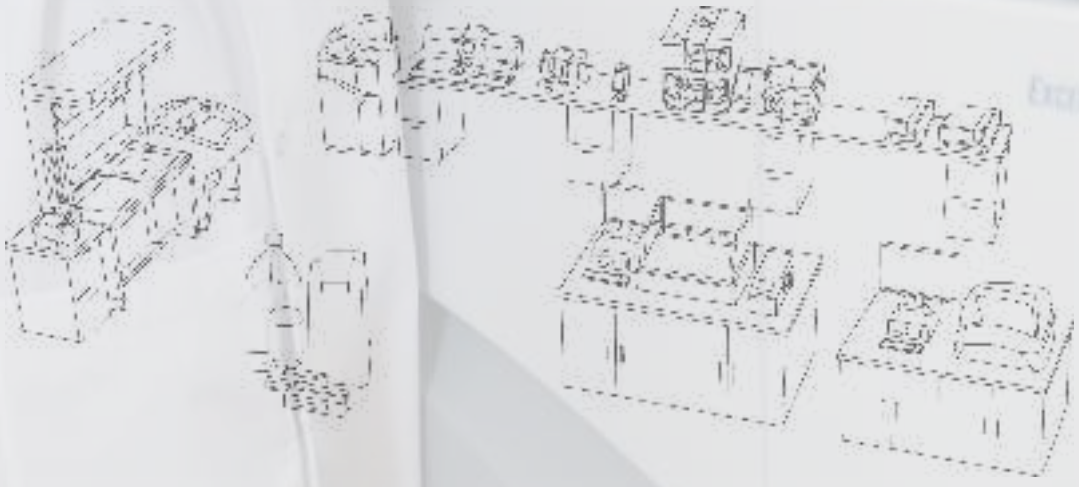
Description	Order Number
Diamond Point Marker	750
Richard-Allan Scientific Tissue Section Adhesive	86014





# Tissue Processing and Embedding

consistency  
in quality



EXCELIMAS

## Consistent, high quality tissue processing

Tissue processing is the foundation to producing reliable results in the Histology laboratory. EpreDia tissue processing solutions are designed to efficiently produce high quality paraffin blocks that enable Pathologists to make an accurate diagnosis.

### Quality

- Round chamber design to help increase the efficiency of fluid movement (Revos™ tissue processor and Excelsior™ tissue processor only)
- Baskets designed with cassette spacers to allow fluid to easily move in and out of each cassette

### Safety

- Downdraft ventilation helps to reduce exposure to harmful and toxic fumes
- Two forms of filtration to handle common reagents (xylene, alcohol, and formalin)
- Unique reagent management design eliminates the need to transfer reagents into secondary vessels

### The Total Solution

- Syntri Safeguard consumables, in conjunction with the Revos tissue processor, use RFID technology to track and log reagent usage, helping facilitate the most efficient and safe use of reagents
- Get peace of mind with EpreDia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory





## Revos Tissue Processor

Laboratories are under increasing pressure to speed up processes, reduce costs, and eliminate errors. The Revos™ tissue processor is expressly designed to help overcome these challenges.

### Rapid Processing

- Unique, canted chamber enhances the distribution of reagent, reduces tissue processing time, and allows for high-quality processing results

### Intelligent Monitoring

- The instrument's intelligent reagent monitoring system tracks and logs reagent usage
- System remembers every bottle loaded, protocol executed, and service performed – allowing laboratories to use reagents more efficiently

### Safety and Protection

- Dual-filtration system and down-draft ventilation help protect laboratory staff by controlling both solvent and formalin fumes
- Be ready for unexpected power outages – the on-board battery backup system keeps your samples safe and protocols active for up to three hours

### Syntri Enabled

- Syntri Safeguard technology enables the instrument to sense where the 100% processing alcohol is loaded in the system and prevents incorrect replenishment

### Enhanced Serviceability

- Advanced remote diagnostic capabilities are available to help minimize downtime and keep your lab running

### Physical Specifications

Dimensions (D x W x H):  
22.8 x 33.4 x 54 in.  
(58 x 85 x 137 cm)

Weight:  
363 lbs / 165 kg

### Power Requirements

100-240 V, 50-60 Hz

Description	Order Number
Revos tissue processor	A84100001
Revos tissue processor (US version)	A84100001ATC

Accessories	Order Number
Formaldehyde (potassium permanganate) filter, 6 / pk	B9990612CS
Charcoal filter, 6 / pk	7411258
Downdraft extraction duct adapter kit	A84110045
Main air system duct adapter kit	A78410024
Storage bottles (5L); 6 / pk	A788410026
Waste wax drawer; 5 / pk	8300
Organized basket, 6 / pk	A84110031
Mega basket, 6 / pk	A84110032
Level sensor cleaning pad	A78410095



## 5 Liter Reagents – Syntri Safeguard

The accuracy of patient tests often hinges upon proper preparation and consistency in processes throughout the laboratory. When paired with Syntri Service and reagents featuring Syntri Safeguard RFID technology, the Revos tissue processor tracks and logs reagent usage through the Cloud. It remembers every bottle loaded, protocol executed and service performed – helping to reduce downtime and facilitating efficient use of reagents.

### You'll need:





## Excelsior AS Tissue Processor

When time and money are short, the Excelsior AS™ tissue processor helps overcome these challenges while reducing exposure to hazardous chemicals.

### Enhanced tissue quality

- Cassette baskets are gently rotated inside the circular chamber, providing more effective agitation than an impeller
- Reagents can be preheated to up to 35 °C, minimizing tissue shock and facilitating reagent penetration
- Baskets can be used for microwave secondary fixation

### Significant reagent cost savings

- By directly measuring the alcohol quality during every run, reagents can be replaced when completely exhausted, reducing waste
- Automatic reagent rotation further extends reagent life using a proven system
- Direct quality measurement and automatic rotation together can lead to reagent savings of 75% or more

### Versatile, Efficient Workflow

- Reduce maintenance time by replacing one bottle of each reagent rather than all of them
- New reagents are drawn directly into the processor from the supplier's bottles. No pouring – no mess – no fumes
- Run rapid biopsies during the day and conventional programs overnight

### Safe for the tissue – safe for the operator

- When the chamber is opened, a downdraft fan pulls fumes through a filter to protect users from chemical exposure
- Fumes from the cabinet are extracted through filters to protect users from alcohol, xylene, and formaldehyde
- Remove waste paraffin by simply discarding a plastic tray – no paraffin spillage and burns
- Battery back-up protects against power outages
- Compatible with IPA xylene-free processes as well as conventional reagents

### Physical Specifications

Dimensions (D x W x H):  
23 x 28 x 54 in.  
(58 x 71 x 137 cm)

Weight: 363 lbs / 165 kg

### Power Requirements

100-240 V, 50-60 Hz

### Includes

Basic instrument, reagent vessels, wax baths, processing basket(s), two charcoal filters and instruction manual.



## Simple to learn and operate

- The all-new touch screen interface is intuitive and easy to learn
- With intelligent software, it is easier to avoid mistakes that affect tissue quality
- Engineered for reliability and peace of mind



Description	Order Number
Excelsior AS tissue processor	A8230001

Accessories	Order Number
Formaldehyde (potassium permanganate) filter, 6 / pk	B9990612CS
Charcoal filter, 6 / pk	7411258
Plastic basket - carrying container, 4 L	B35210007
Reagent bottles (front cabinet), 5 L, 6 / pk	A78410026
Downdraft extraction duct adapter kit	A78410023
Main air system duct adapter kit	A78410024

## You'll need:





## STP 120 Spin Tissue Processor

The STP 120 tissue processor is designed to process biological specimens from chemical fixation to wax infiltration. Its unique design uses programmable, gentle centrifugal force to augment the normal vertical agitation process associated with carousel processors.

### Customizable for Your Lab

- Immediate and delayed-start processing modes so you can process tissues when it's most convenient
- Cassette baskets spin counterclockwise and clockwise within reagent container to improve processing
- Customizable spin speeds and programmable immersion time in each station to accommodate a variety of specimen types
- Microprocessor unit can maintain up to ten processing programs to save on programming time
- Basket holds up to 120 cassettes
- Save money by reducing reagent carryover through centrifugal spinning of the basket above the reagent vessel

### Focused on Safety

- Reagent vessel covers and charcoal-enhanced ventilation help control processing vapors for user safety

### Physical Specifications

Dimensions:

Diameter: 33.5 in. (85 cm)

Height: 19.7 - 27.6 in. (50-70 cm)

Weight: 154.3 lbs / 70 kg

### Power Requirements

100-120 V, 50/60 Hz, 1.7A

220-240 V, 50/60 HA, 0.9A

### Includes

Ventilation system, paraffin baths, and processing basket

Description	Order Number
STP 120 Spin tissue processor with two wax baths and processing basket	813150
STP 120 Spin tissue processor with three wax baths and two processing baskets	813160

### You'll need:



## Specimen and Grossing Containers

Specimen and grossing containers provide convenient fixation of tissue specimens. Designed to be used at full strength and should not require any additives. Made of clear polystyrene or clear polypropylene. Allow for 15 to 20 times the volume of fixation fluid to volume of specimen. Packed in handipacks and/or trays.

Description	Qty.	Order Number
<b>Richard-Allan Scientific Prefilled Containers</b>		
10% NBF 20 mL jar	192 / case	59201
10% NBF 40 mL jar	96 / case	51401
10% NBF 40 mL jar	168 / case	59401
10% NBF 60 mL jar	96 / case	51601
10% NBF 60 mL jar	126 / case	59601
10% NBF 90 mL jar	100 / case	56901
10% NBF 90 mL jar	120 / case	59901
10% NBF 120 mL jar	90 / case	591201
10% NBF 120 mL jar	96 / case	511201
10% Zinc Formalin 20 mL jar	192 / case	59201ZF
10% Zinc Formalin 20 mL jar with prostate kit #59201	192 / case	29012
10% Zinc Formalin 40 mL jar	168 / case	59401ZF
10% Zinc Formalin 60 mL jar	126 / case	59601ZF
10% Zinc Formalin 90 mL jar	120 / case	51901
10% Zinc Formalin 120 mL jar	90 / case	591201ZF
<b>Richard-Allan Scientific Dry Containers</b>		
Dry container 20 mL	284 / case	59202
Dry container 40 mL	216 / case	59402
Dry container 60 mL	150 / case	59602
Dry container 60 mL	150 / case	53602
Dry container 90 mL	125 / case	59902
Dry container 120 mL	100 / case	531202
Dry container 120 mL	100 / case	591202

Description	Qty.	Order Number
<b>Richard-Allan Scientific Signature Series Containers</b>		
10% NBF 20 mL jar	384 / case	56201
10% NBF 40 mL jar	216 / case	56401
10% NBF 60 mL jar	144 / case	56601
10% NBF 60 mL jar	150 / case	53601
10% NBF 90 mL jar	125 / case	53901
10% NBF 120 mL jar	75 / case	561201
10% NBF 120 mL jar	100 / case	531201
<b>Shandon Containers</b>		
Formal-Fixx 20 mL jar	180 / case	9990910
Formal-Fixx 60 mL jar	125 / case	9990914
Formal-Fixx 90 mL jar	125 / case	9990916
Formal-Fixx 120 mL jar	125 / case	9990918
Cytospin Collection Fluid 120 mL jar	125 / case	9990323
Glyo-Fixx™ 20 mL jar	180 / case	9990920
Glyo-Fixx 60 mL jar	125 / case	9990924
Glyo-Fixx 120 mL jar	125 / case	9990928
Mucolexx 120 mL jar	50 / case	9990375

## Paraffin



Designed to suit all histological applications, including accommodations for rapid infiltration, extra-thin sectioning, and hard/fibrous tissue. Resealable bags are designed to stand-up for easy storage and to reduce the chance of countertop spillage.

Name	Item number	Unit of measure	Description	Melting Point	Infiltration	Embedding
Histoplast	6774006	1 x 2.5 Kg (5.5 lbs)	Non-polymer paraffin for use in infiltration and embedding	55-57 °C (131-135 °F)	x	x
Histoplast	6774060	1 x 10 Kg (22 lbs)				
Histoplast Kit	6774006K	5 x 1 Kg (2.2 lbs)	Used for Excelsior and Revos tissue processors	55-57 °C (131-135 °F)	x	x
Histoplast PE	8330	8 x 1 Kg (2.2 lbs)	Can be used in both infiltration and embedding procedures	56 °C (133 °F)	x	x
Histoplast PE Kit	8330K	5 x 1 Kg (2.2 lbs)	Used for Excelsior and Revos tissue processors	56 °C (133 °F)	x	x
Histoplast IM	8331	8 x 1 Kg (2.2 lbs)	Utilizes DMSO to help infiltrate larger tissues, making ideal for tissues such as whole kidney	56 °C (133 °F)	x	
Histoplast IM Kit*	8331K	5 x 1 Kg (2.2 lbs)	Used for Excelsior and Revos tissue processors	56 °C (133 °F)	x	
Histoplast LP	8332	8 x 1 Kg (2.2 lbs)	Lower melting point to help reduce the chance of distortion on small and friable tissue	50-54 °C (122 - 129 °F)	x	x
Histoplast LP Kit	8332K	5 x 1 Kg (2.2 lbs)	Used for Excelsior and Revos tissue processors	50-54 °C (122 - 129 °F)	x	x
Paraffin Type 1	8334	10 x .9 Kg (2 lbs)	Low polymer wax designed for the infiltration of tissue	55-57 °C (131-135 °F)	x	
Paraffin Type 1 Kit*	8334K	10 x .9 Kg (2 lbs)	Used for Excelsior and Revos tissue processors	55-57 °C (131-135 °F)	x	

\*Not available for purchase in EMEA

Name	Item Number	Unit of Measure	Description	Melting Point	Infiltration	Embedding
Paraffin Type 3	8335	10 x .9 Kg (2 lbs)	Low polymer wax designed for the infiltration of tissue	55 - 57 °C (131-135 °F)	x	
Paraffin Type 6	8336	10 x .9 Kg (2 lbs)	Specially formulated wax without polymer but is still stable enough to use in infiltration and embedding	55-57 °C (131-135 °F)	x	x
Paraffin Type 9	8337	10 x .9 Kg (2 lbs)	High polymer. Ideal for sectioning tissues at 2 microns	55-57 °C (131-135 °F)		x
Paraffin Type H	8338	10 x .9 Kg (2 lbs)	Ideally suited for both infiltration and embedding	55-57 °C (131-135 °F)	x	x
Paraffin Type L	8339	10 x .9 Kg (2 lbs)	Low polymer paraffin for use with small tissue	55-57 °C (131-135 °F)	x	x
Precision Cut	B1002490	10 x 1 Kg (2.2 lbs)	Good for both infiltration and embedding	56 °C (133 °F)	x	x
Precision Cut Kit	B1002490K	5 x 1 Kg (2.2 lbs)	Used for Excelsior and Revos tissue processors	56 °C (133 °F)	x	x

## Parapel™ Paraffin Repellent

Protect against excess buildup of wax on countertops and instrumentation.

11 oz (325 mL) | 12 / case

Description	Quantity	Order Number
Parapel paraffin repellent 50 mL	ea.	2300

## 5 Liter Reagents – Syntri Safeguard

The accuracy of patient tests often hinges upon proper preparation and consistency in processes throughout the laboratory. When paired with Syntri Service and reagents featuring Syntri Safeguard RFID technology, the Revos tissue processor tracks and logs reagent usage through the Cloud. It remembers every bottle loaded, protocol executed and service performed – helping to reduce downtime and facilitating efficient use of reagents.



Description	Order Number
Syntri Safeguard 10% Neutral Buffered Formalin, 4 x 5 L	5735SS
Syntri Safeguard Pen-Fix, 4 x 5 L	6115SS
Syntri Safeguard Dehydrant 100%, 4 x 5 L	6215SS
Syntri Safeguard Xylene, 4 x 5 L	6615SS
Syntri Safeguard Clear-Rite 3, 4 x 5 L	6915SS
Syntri Safeguard Flex 100, 4 x 5 L	8115SS
Syntri Safeguard Isopropyl Alcohol, 4 x 5 L	9617SS
Syntri Safeguard Formal-Fixx, 4 x 5 L	6764215SS
Shandon Syntri Safeguard Xylene Substitute, 4 x 5 L	6764515SS

### Syntri Safeguard Pairs With Revos Tissue Processor

When used in conjunction with Syntri Safeguard consumables, the Revos tissue processor has the power to track every last drop of reagent used in the system. Syntri Safeguard technology enables the instrument to sense where the 100% processing alcohol is loaded in the system and prevents incorrect replenishment.

Find out more about the revolutionary Revos tissue processor on [page 26](#).



## Epredia Fixation Products



### Neutral Buffered Formalin 10%

- Richard-Allan Scientific Neutral Buffered Formalin (NBF) 10% is a premixed AFIP formulated product that reduces exposure to toxic fumes
- Phosphate buffers are used to stabilize the pH between 6.8 and 7.2
- Stringent quality control ensures a formalin concentration of 10%
- Stable to freezing temperatures
- Concentrate reduces storage space
- One gallon of concentrate to four gallons of distilled or deionized water ensures consistent results with those of the premixed 10% NBF

Description	Size	Qty.	Order Number
<b>Concentrated</b>			
Bottle	1 gal (3.8 L)	4 / case	5700
<b>Pre-Mixed, Ready to Use</b>			
Bottle	1 gal (3.8 L)	4 / case	5701
Bottle	1.32 gal (5 L)	4 / case	5735
Cubitainer	5 gal (5 L)	ea.	5705
Cubitainer	2.5 gal (9.48 L)	ea.	5725
Drum	9.5 gal (208 L)	ea.	5755

### Formaldehyde 37%

- Richard-Allan Scientific Formaldehyde 37% is for use in histological applications to fix and store tissue specimens
- Easy-to-pour container minimizes splashing and reduces spills
- Unbuffered

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	9311

### Zinc Formalin 10%

- Richard-Allan Scientific Buffered Zinc Formalin is for use in immunohistochemistry techniques to enhance nuclear detail
- Easy-to-pour bottle helps reduce spills

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	5701ZF
Cubitainer	5 gal (18.9 L)	ea.	5705ZF



## Zinc Formalin, Unbuffered 10%

- Richard-Allan Scientific Unbuffered Zinc Formalin can be used as an alternative for 10% formalin
- Easy-to-pour bottle helps reduce spills and splashing
- Does not contain mercury

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	7600

## Signature Series Pen-Fix

- Richard-Allan Scientific™ Signature Series™ Pen-Fix™ is a uniquely buffered alcoholic formalin fixative
- Excellent frozen section fixative
- Performs well with fatty or thick tissue sections
- Fixation and dehydration occur simultaneously and the penetration rate is three times faster than that of 10% neutral buffered formalin
- Can be used in all open or enclosed tissue processors and in the grossing room
- Recommended for use in the second and/or third stations of the processor as a secondary fixative

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	6101
Bottle	1.3 gal (5 L)	4 / case	6115
Cubitainer	5 gal (18.9 L)	ea.	6105

## Richard-Allan Scientific Carson's Modified Buffered Formalin

- Richard-Allan Scientific Carson's Modified Buffered Formalin is an excellent general-use fixative
- Performs similarly to 10% neutral buffered formalin
- Use for electron microscopy specimens

Description	Size	Qty.	Order Number
Cubitainer	5 gal (18.9 L)	ea.	57141

## Bouin's Fluid

- Richard-Allan Scientific Bouin's Fluid is a saturated, aqueous picric acid solution
- Excellent for use in Trichrome staining procedures
- Use to preserve structures with soft and delicate textures and for gastrointestinal tract specimens

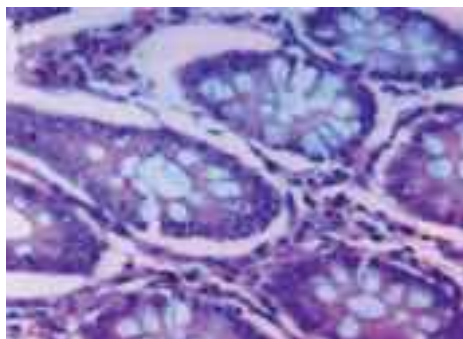
Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	ea.	57211



## Shandon Glyo-Fixx

- Shandon™ Glyo-Fixx™ is a non-carcinogenic, non-sensitizing, and environmentally friendly substitute for formalin. The active ingredient, glyoxal, is a di-aldehyde, which has almost no vapor and is used with the same protocols as formalin
- Glyo-Fixx allows higher antibody dilutions and works well with conventional special stains including silver procedures, Schmorl's for reducing substances, PAS, Alcian blue, Mucicarmine, Verheoff-Van Gieson for elastin, and Trichrome
- Offers results superior to neutral buffered formalin - produces distinct, crisp cellular morphology
- No unpleasant smell or cross linking as with formaldehyde - fixes most antigens without impairing immuno-reactivity
- Allows special stain dyes to be sharp without background staining
- Presents fine detail in specimen structure

Description	Size	Qty.	Order Number
<b>Concentrated</b>			
Container	3.8 L	ea.	6764265
<b>Pre-Mixed, Ready to Use</b>			
Bottle	1 gal (3.8 L)	ea.	6764262
Cubitainer	19 L	ea.	6764260
<b>Pre-filled containers</b>			
20 mL containers	filled to 10 mL	180 / case	9990920
60 mL containers	filled to 30 mL	125 / case	9990924
90 mL containers	filled to 45 mL	125 / case	9990926
120 mL containers	filled to 60 mL	125 / case	9990928



## Shandon Formal-Fix

- Shandon Formal-Fix produces consistent results and extends the life of the rotary valve in tissue processors
- Phosphate-free, 10% neutral buffered formalin
- Stores all specimens without excessive shrinking or hardening
- Use for storage of all tissue – eliminates presorting of EM specimens
- Available pre-filled, ready-to-use, or in economical concentrate - just add water or alcohol
- Concentrate is not affected by freezing, reduces shelf space and is less expensive to ship
- Pre-filled, leak-resistant containers are packed in sturdy trays for courier transport

Description	Size	Qty.	Order Number
<b>Concentrated</b>			
Container	3.8 L (makes 19 L)	ea.	6764254
Container	1 L (makes 5 L)	2 / case	9990244
<b>Pre-Mixed, Ready to Use</b>			
Cubitainer	19 L	ea.	6764240
Cubitainer	10 L	2 / case	9990234
<b>Pre-filled containers</b>			
20 mL containers	filled to 10 mL	180 / case	9990910
60 mL containers	filled to 30 mL	125 / case	9990914
90 mL containers	filled to 45 mL	125 / case	9990916
120 mL containers	filled to 60 mL	125 / case	9990918



## Shandon Zinc Formal-Fix

Shandon™ Zinc Formal-Fix™ is a fixative of choice to enhance H&E's and special stains.

- Excellent for immunochemistry
- Minimizes the need for enzyme digestion
- Reduces protein cross-linking, producing well-defined nuclear detail

Description	Size	Qty.	Order Number
<b>Concentrated</b>			
Container	3.8 L (makes 19 L)	ea.	6764255
Container	1 L (makes 5 L)	2 / case	9990245
<b>Pre-Mixed, Ready to Use</b>			
Cubitainer	19 L	ea.	6764240

## Shandon Rapid-Fixx Formalin

- Used in Rapid-Chrome Frozen Section Stain Kit (9990001) for fixing slides from frozen sections.

Description	Size	Qty.	Order Number
Bottle	0.26 gal (1 L)	4 / case	6764212

## Vytac

- Richard-Allan Scientific™ Vytac™ Formalin Disposal System is a simple, safe and economical disposal system for 10% buffered or unbuffered formalin, including zinc formalin
- Eliminates the need for expensive waste hauling and on-site permits
- Solution breaks down formalin into inert components and, when used as directed, neutralizes more than 99% of the waste formalin collected
- If local regulations allow for drain disposal, pH adjustment will be required
- One part Vytac solution neutralizes four parts formalin waste
- Vytac GNF will neutralize glutaraldehyde

Starter Kit includes: Vytac 1 gal / (3.8 L), reservoir with lid, measuring cup and plastic stir rod.

Description	Size	Qty.	Order Number
Starter kit	---	ea.	5402
Vytac GNF	1 gal (3.8 L)	ea.	5408
Vytac ACX	0.26 gal (1 L)	ea.	5409
Vytac	1 gal (3.8 L)	4 / case	5401
Vytac	5 gal (18.9 L)	ea.	5405

## Cal-Rite

- Richard-Allan Scientific™ Cal-Rite™ is a mixture of formic acid and formaldehyde which allows simultaneous decalcification and fixation.
- Reduces poor hematoxylin and eosin staining caused by over-decalcification and/or exposure to harsh mineral acids
- Even after prolonged exposure of specimens in Cal-Rite, nuclear chromatin staining is well preserved and not distorted

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	ea.	5501
Bottle	2.5 gal (9.5 L)	ea.	5525

## Decalcifying Solution

- Decalcifying Solution is formulated to remove calcium from histological specimens. EDTA and dilute hydrochloric acid in this solution require no heat, electricity, or other aids to decalcify bone tissue
- Offers rapid decalcification without destroying nuclear properties of the tissue

Description	Size	Qty.	Order Number
Bottle	32 oz (0.94 L)	6 / case	8340
Cubitainer	1 gal	4 / case	8340-1



## Shandon TBD-1 Decalcifier

- Shandon™ TBD-1™ Decalcifier is a rapid hydrochloric decalcifier for processing bone marrow biopsies in as little as 15 to 30 minutes
- Thin pieces of bone process in 3 to 12 hours
- Added ingredients protect cells from actions of acids

Description	Size	Qty.	Order Number
Bottle	0.26 gal (1 L)	2 / case	6764001
Bottle	0.26 gal (1 L)	4 / case	6764002



## Shandon TBD-2 Decalcifier

- Shandon TBD-2™ Decalcifier is a formic acid decalcifier for gentler, longer-term processing
- Added ingredients protect cells from actions of acids

Description	Size	Qty.	Order Number
Bottle	0.26 gal (1 L)	2 / case	6764003
Bottle	0.26 gal (1 L)	4 / case	6764004

## Richard-Allan Scientific Dehydrants



### Richard-Allan Scientific Signature Series Flex 100, 95, 80

- Richard-Allan Scientific™ Signature Series™ Flex™, 100, 95 and 80 provides gentle dehydration while demonstrating brilliant cytoplasmic staining
- Formulation of methyl and isopropyl alcohol
- Minimizes over-dehydration in smaller biopsies
- Excellent for lipid extraction, allowing for increased paraffin infiltration
- Excellent dye solvent for special stains

Description	Size	Qty.	Order Number
<b>Flex 100</b>			
Bottle	1 gal (3.8 L)	4 / case	8101
Bottle	1.3 gal (5 L)	4 / case	8115
Metal pail	5 gal (18.9 L)	ea.	8105
Drum	55 gal	ea.	8155
<b>Flex 95</b>			
Bottle	1 gal (3.8 L)	4 / case	8201
Bottle	1.3 gal (5 L)	4 / case	8215
Metal pail	5 gal (18.9 L)	ea.	8205
<b>Flex 80</b>			
Bottle	1 gal (3.8 L)	4 / case	8301R



### Richard-Allan Scientific Dehydrant 100%, 95%, 80%, 70%

Richard-Allan Scientific Dehydrant 100%, 95%, 80% and 70% is a denatured ethyl alcohol reagent specifically designed for processing and staining of histological and cytological specimens.

- Blend of ethyl, methyl and isopropyl alcohols
- Can be used as a dye or stain solvent

Description	Size	Qty.	Order Number	Description	Size	Qty.	Order Number
100%	1 gal (3.8 L)	4 / case	6201	80%	1 gal (3.8 L)	4 / case	6401
100%	1.3 gal (5 L)	4 / case	6215	80%	1.3 gal (5 L)	4 / case	6415
100%	55 gal (208 L)	ea.	6255	70%	1 gal (3.8 L)	4 / case	6501
95%	1 gal (3.8 L)	4 / case	6301	70%	1.3 gal (5 L)	4 / case	6515
95%	1.3 gal (5 L)	4 / case	6315	60%	1.3 gal (5 L)	4 / case	7515
95%	55 gal (208 L)	ea.	6355				



## Richard-Allan Scientific Signature Series Clear-Rite 3

- Richard-Allan Scientific™ Signature Series™ Clear-Rite 3™ is a unique blend of isoparaffinic aliphatic hydrocarbons for tissue processing and staining
- Excellent lipid extraction during tissue processing
- Renders deparaffinization and clearing during the staining process
- Does not produce hard or brittle specimens, even after prolonged exposure
- Use in all tissue processors and automatic stainers
- Benzene-free
- Very low odor

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	6901
Bottle	1.32 gal (5 L)	4 / case	6915

## Shandon Xylene Substitute

- Shandon Xylene Substitute is a safer, more convenient alternative to xylene for processing, staining and coverslipping
- Airborne exposure limit three times safer than xylene (TLV 300ppm)
- Virtually odorless aliphatic hydrocarbon – no citrus aroma
- Not sensitizing to normal skin
- Evaporation rate similar to xylene – slides dry quickly
- Grease-less
- Can be recycled with solvent recyclers

Description	Size	Qty.	Order Number
Bottle	1.06 gal (4 L)	ea.	9990505
Bottle	1.06 gal (4 L)	4 / case	6764506
Bottle	1.3 gal (5 L)	4 / case	6764515
Metal pail	5 gal (18.9 L)	ea.	9990507
Drum	55 gal (208 L)	ea.	9990509



## Citrus Clearing Solvent

- Citrus Clearing Solvent is a clearing solvent that is a highly effective xylene substitute
- Use as a direct replacement for xylene in both manual or automated system applications
- D-limonene-based solvent has a slight citrus scent
- Higher flash point eliminates the need for storage in a flammable safety cabinet

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	8301

## Richard-Allan Scientific Xylene

- Richard-Allan Scientific Xylene is used for all tissue processors and automatic stainers
- Strict quality assurance, including gas chromatography, is performed on each lot to guarantee a consistent product
- Offers superior lipid extraction, optimal paraffin infiltration and excellent deparaffinization and clearing during staining
- Contains the lowest level of benzene, a known carcinogen

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	6601
Bottle	1.32 gal (5 L)	4 / case	6615

## Richard-Allan Scientific Toluene

- Packaged in high-density polyethylene
- Easy-to-pour container can reduce spills when pouring

Description	Size	Qty.	Order Number
Bottle	1 gal (3.8 L)	4 / case	9711
Metal pail	5 gal (18.9 L)	ea.	9715

## Histostar Embedding Center

The Histostar™ Embedding Center is designed to enhance user comfort and increase work productivity, allowing for a seamless transition from tissue processing to microtomy.

### Cool and Contoured

- All user contact points are smooth and insulated providing a cool and comfortable workspace. The casework has been precision sculpted to avoid pressure points and uncomfortable heated areas
- Cool LED lighting provides specimen illumination at five user-selectable intensities, without the clutter of awkward remote lighting. A low-profile dispense head further enhances specimen visibility

### High capacity Throughput

- With its large-capacity tissue storage tank, the HistoStar is capable of accepting baskets from any tissue processor. The five-liter paraffin reservoir is one of the largest basket storage compartments, and along with the large area cold plate, has been designed for maximum productivity in the busiest of laboratories
- Any sample size can be handled with ease. A simple adjustment moves the dispensing paddle to accommodate the samples you are working with. Even Super Mega™ cassettes from EpreDia can be embedded. Two different nozzle lengths allow for adaptation to personal convenience
- Large easy to read touch screen display allows quick access to the precise temperature controls and other parameters. Programmable “sleep” mode saves energy and accommodates user workflow
- Integrated ParaTrimmer™ – excess paraffin can be removed during the embedding process without scraping
- Adjustable cold plate with variable temperature +/- 5 °C. Holds up to 72 blocks at a time

### Physical Specifications

#### Dimensions:

Embedding module (D x W x H):  
23 x 25.5 x 17 in.  
(58.7 x 65 x 43 cm)

Cold module (D x W x H):  
23 x 17 x 14.5 in.  
(58.5 x 43 x 36.5 cm)

#### Weight:

Embedding module: 55.12 lbs / 25 kg

Cold module: 44.10 lbs / 20 kg

Wax reservoir capacity: 5 L

#### Temperatures

Wax reservoir: 50-70 °C

Cold spot: 5 °C

Hot spot: 50-70 °C

Tissue storage: 50-70 °C

Mold storage: 50-70 °C

Cold plate: Adjustable, -12 to -5 °C

Description	Order Number
<b>HistoStar Instrument (Complete)</b>	
100-120 V, 50/60 Hz	A8100002
220-140 V, 50/60 Hz	A8100001
<b>Embedding Module</b>	
100-240 V, 50/60 Hz	A8100007
<b>HistoStar Cold Module</b>	
100-120 V, 50/60 Hz	A8100005
220-240 V, 50/60 Hz	A8100004

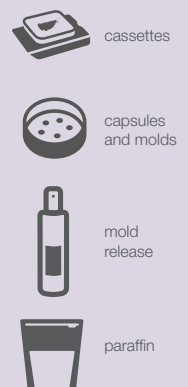
Accessories	Order Number
Tamping tools kit, 2 / pk (1 x 20 mm; 1 x 12 mm)	A81010030
Spatula kit, 2 / pk	A81010031
Cassette lid storage cover	A81010026
Magnifier assembly	A81010032
Foot switch	AP16629
Heated forceps, red, 1 mm tip	A81010033
Heated forceps, yellow, 2 mm tip	A81010034
Heated forceps, blue, 4 mm tip	A81010035
Document holder kit	A81010036



## Paraffin

Enhance the use of your Histostar embedding center with a wide variety of EpreDia paraffin. With dozens of varieties, find the best paraffin for your tissue type to produce the highest quality sections.

### You'll need:



## Cassettes

The entire range of cassettes has been redesigned for better performance – both in printing and in laboratory processes.

- The all-new surface finish and reinforced print faces are built to optimize print quality when used with PrintMate AS cassette printers
- All-new PrintMate AS-compatible tubes are precisely engineered to reduce jamming and prevent downtime
- Opening and closing forces have been carefully adjusted for ease of use, while safeguarding valuable specimens during processing
- All cassette designs have been comprehensively validated for print quality, processing quality, and reliability in embedding and sectioning
- New 12-color range selected for scanning reliability



### PrintMate Embedding Cassette

- Pore style: Round holes
- For routine specimens
- Lid hinge: Reversible



### PrintMate Slotted Cassette

- Pore style: Slotted
- For routine specimens
- Lid hinge: Reversible



### Thinline Slotted Cassette

- Pore style: Slotted
- For routine specimens
- Lid hinge: Front edge



## Slotted Cassette 2

- Pore style: Slotted
- For routine specimens
- Lid hinge: Front edge



## TissueLoc™ Cassette (Cassette IV)

- Pore style: Slotted
- For routine specimens
- Lid hinge: Back edge
- Large tab for easy opening



## PrintMate Biopsy Cassette

- Pore style: Small squares
- For biopsy specimens
- Lid hinge: Reversible



## Thinline Biopsy Cassette

- Pore style: Small square
- For biopsy specimens
- Lid hinge: Front edge



## Biopsy Cassette 2

- Pore style: Small square
- For biopsy specimens
- Lid hinge: Front edge



## TissueLoc Biopsy Cassette (Cassette IV)

- Pore style: Small square
- For biopsy specimens
- Lid hinge: Back edge
- Large tab for easy opening



## HistoScreen™ Cassette

- Pore style: Mesh
- For very small biopsy specimens
- Eliminates need for sponges or bags
- Lid hinge: Back edge



## Fine Pore Cassette

- Pore style: Small holes
- For very small biopsy specimens
- Lid hinge: Front edge

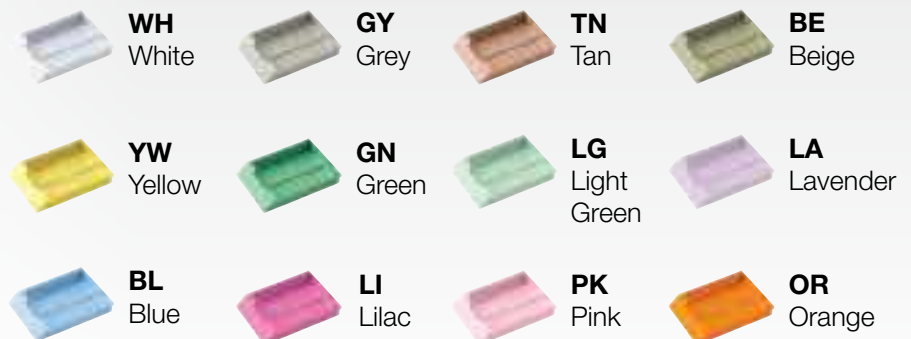
Accessories	Order Number
<b>PrintMate Embedding Cassette</b>	
1,000 cassettes, loose, with no lids – for use with metal lids	B851040
750 cassettes, 10 tubes of 75 cassettes, with no lids – for use with metal lids	B851010
1,000 cassettes, loose, with loose-packed lids	B851070
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851100
Metal lids for cassettes	1001003
<b>PrintMate Slotted Cassette</b>	
1,000 cassettes, loose, with loose-packed lids	B851090
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851120
<b>Thinline Slotted Cassette</b>	
750 cassettes, 10 tubes of 75 cassettes, with color-matched, attached lids	B851736
<b>Slotted Cassette 2</b>	
1,000 cassettes, loose, with attached lids	B851739
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851729
<b>TissueLoc Cassette (Cassette IV)</b>	
1,000 cassettes, loose, with attached lids	B851954
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851720

Accessories	Order Number
<b>PrintMate Biopsy Cassette</b>	
1,000 cassettes, loose, with attached lids	B851080
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851110
<b>Thinline Biopsy Cassette</b>	
750 cassettes, 10 tubes of 75 cassettes, with color-matched, attached lids	B851737
<b>Biopsy Cassette 2</b>	
1,000 cassettes, loose, with attached lids	B851738
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851730
<b>TissueLoc Biopsy Cassette (Cassette IV)</b>	
1,000 cassettes, loose, with attached lids	B851925
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851750
<b>Epredia HistoScreen Cassette</b>	
1,000 cassettes, loose, with attached lids	B851000
750 cassettes, 10 tubes of 75 cassettes, with loose-packed lids	B851001
<b>Epredia Fine Pore Cassette</b>	
1,000 cassettes, loose, with color-matched, attached lids	B851735
750 cassettes, 10 tubes of 75 cassettes, with color-matched, loose-packed lids	B851734

## Ordering is easy.

Simply select your cassette and configuration number above, add the two digit color code from below.

Example: Light Green TissueLoc Biopsy Cassette in tubes = B851750LG





## Capsules and Molds



### Tissue Processing Capsule

Tissue Processing Capsule is constructed of stainless steel.

- Five sturdy lugs grasp the base securely
- Stainless-steel capsule can be partitioned up to four sections
- Partition separators sold separately

### Physical Specifications

Dimensions: (O.D. x D): 1.46 x 0.24 in. (37 x 6 mm)



### Standard Cassette

Standard Cassette is constructed of stainless steel.

### Physical Specifications

Dimensions: (O.D. x D): 1.58 x 0.276 in. (40 x 7 mm)

Expandable to 0.43 in. (11 mm)



### Micro-Cassette

Micro-Cassette is constructed entirely of stainless steel.

- Positive clip-on cover for micro specimen
- Available with fine or coarse mesh

### Physical Specifications

Dimensions: (O.D. x D): 0.79 x 0.197 in. (20 x 5 mm)



### Large Cassette

Large Cassette is constructed of stainless steel.

- Flexible snap cover is easily attached and removed

### Physical Specifications

Dimensions (D x W x L): 0.47 x 0.98 x 1.97 in. (12 x 25 x 50 mm)

## Disposable Base Molds and Embedding Rings

Richard-Allan Scientific Disposable Base Molds and Embedding Rings are designed for use with all standard-size cassettes and embedding rings.

- Molded from rigid plastic, the block design provides greater base support and a smaller cutting surface
- Cleaning associated with metal molds is not required
- Transparency facilitates tissue orientation



## Disposable Base Molds

Base Molds are made of rigid, transparent plastic. These molds promote rapid paraffin hardening.



## Stainless Steel Base Molds

- High-quality, durable molds
- Sizes fit most cassettes
- Superior thermal exchange
- Rounded corners

## Super Mega Stainless Steel Base Molds

- High-quality, durable molds
- Fits SuperMega cassettes
- Superior thermal exchange
- Rounded corners



## Peel-A-Way™ Disposable Embedding Molds

Made of rigid, transparent plastic, these molds promote rapid paraffin hardening.



## Base Mold Release

Release sprays are used to coat base molds for easy separation of paraffin from mold.

- Help reduce paraffin buildup on the molds
- Environmentally safe product is ready-to-use
- Non-aerosol pump spray bottle

4 oz. (118 mL) | 12 / case

Description	Qty.	Order Number
<b>Standard Cassette</b>		
Standard cassette*	ea.	339
<b>Micro-Cassette</b>		
Fine mesh	ea.	33124
<b>Large Cassette</b>		
Large cassette*	ea.	349
<b>Disposable Base Molds and Embedding Rings</b>		
Base mold, 7 x 7 mm	125 / box, 4 box / case	58949
Base mold, 15 x 15 mm	125 / box, 4 box / case	58950
Base mold, 24 x 24 mm	125 / box, 4 box / case	58951
Base mold, 30 x 24 mm	125 / box, 4 box / case	58952
Base mold, 37 x 24 mm	125 / box, 4 box / case	58953
Embedding ring, white*	250 / box, 4 box / case	58993

Description	Qty.	Order Number
Richard Allan Scientific Base Mold Release	12 / case	6600
Parapel paraffin repellent 50 mL	ea.	2300

\*Not available for purchase in EMEA

Description	Qty.	Order Number
<b>Disposable Base Molds</b>		
7 x 7 mm molds	125 / box, 4 / case	41740
15 x 15 mm molds	125 / box, 4 / case	41741
24 x 24 mm molds	125 / box, 4 / case	41742
30 x 24 mm molds	125 / box, 4 / case	41743
37 x 24 mm molds	125 / box, 4 / case	41744
<b>Stainless Steel Base Molds</b>		
10 x 10 x 5 mm	10 / pk.	6401015
24 x 24 x 5 mm	10 / pk.	6401017
30 x 24 x 9 mm	10 / pk.	6401017
37 x 27 x 9 mm	10 / pk.	6401018
<b>Peel-A-Way Disposable Embedding Molds</b>		
12 x 12 x 20 mm	288 / case	1220
22 x 22 x 20 mm	288 / case	2219
30 x 22 x 20 mm	288 / case	1830
40 x 22 x 20 mm	288 / case	1841



# Cryotomy

built for  
speed



## Experience speed, accuracy, and safety

When it comes to urgent biopsies, getting accurate results to the operating room as quickly as possible is essential in maintaining excellent patient care. Cryostats from EpreDia, along with blades, marking dyes, and other consumables, are designed to get the job done.

### Speed

- Ability to save and repeat preferences, such as section thickness and temperature, to reduce waiting time for rush biopsies
- Each model features an integrated quick-freeze Peltier device that freezes tissue rapidly for quicker, smoother cutting, helping you get to a diagnosis faster

### Accuracy

- Manual and motorized (NX70 only) sectioning options allow for precise control and premium quality sections
- Intuitive touch screen software designed for ease of use, minimizing the risk for error

### Safety

- Optional disinfection features
- Ergonomic band and integrated arm rest controls (NX70 and NX50 only)
- Height adjustable from a sitting or standing position for added user comfort (NX70 and NX50 only)

### The Total Solution

- EpreDia blades designed to cut thin, wrinkle-free sections for analysis
- Line of tissue marking dyes specifically formulated for use with frozen sections
- Get peace of mind with EpreDia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory





## Cryostat Range and Selection Guide

With three different cryostat options for your lab, rest-assured that you can find the perfect fit.

Designed to fulfill the needs of both research and clinical laboratories, the CryoStar™ NX70 cryostat introduces a form-fitting design, integrated height control and motorized sectioning. Freeze and section tissue samples more efficiently with improved stability and individually controlled temperature settings on both the object specimen holder and blade carrier.

Get optimal sectioning quality paired with ergonomics and safety with the Cryostar NX50 cryostat. The NX50 cryostat is designed to accommodate the needs of your routine clinical laboratory. This manual cryostat offers a form-fitting design with optional height adjustment, cold disinfection, and Vacutome, allowing users to customize their sectioning experience.

Deliver high-quality results comfortably and efficiently with the HM525 NX cryostat, a high-performance routine cryostat with intuitive software and touch screen for simple, efficient operation. The HM525 NX cryostat offers reliability, advanced ergonomics and an intuitive interface.



Cryostar NX70 Cryostat



Cryostar NX50 Cryostat



HM525 NX Cryostat



Cryostat features	CryoStar NX70 Cryostat	CryoStar NX50 Cryostat	HM525 NX Cryostat
Cold disinfection	Optional	Optional	
UV disinfection			Optional
Encapsulated microtome	✓	✓	
Chamber temperature < -25 °C	✓	✓	✓
Fast-freeze temperature	-60 °C	-57 °C	-55 °C
Fast-freeze cooling mechanism	Peltier	Peltier	Peltier
Automatic and immediate defrost	✓	✓	✓
Active blade cooling	✓	✓	
Adjustable blade temperature	✓		
Specimen head temperature control	✓	✓	
Vacutome	Optional	Optional	
Specimen trimming	✓	✓	✓
Specimen retraction	20 µm	20 µm	20 µm
Section thickness range	0.5 - 500 µm	0.5 - 500 µm	1 - 500 µm
Motorized coarse advance	✓	✓	✓
Motorized cutting	✓		
Cryobar cooling / (fast-freeze) stations	18 (1)	18 (1)	27 (4)
Touch screen option	✓	✓	✓
Height adjustable chamber	✓	Optional	

## Complete Solutions to Enhance Frozen Sectioning

### Cryostat Consumables

Epredia offers a complete line of consumables to enhance the use of your Epredia cryostat. Epredia offers blades that are crafted using a proprietary steel hardening technology that delivers increased longevity. Our staining kits and mountants are created specifically for use with frozen tissue sections, allowing your laboratory to quickly produce high-quality slides from tissue samples that are ready for analysis.

### Cryostat Service

Your laboratory is a busy place that performs many important tasks – extended service contracts keep you up and running. Yearly preventative maintenance gives you peace of mind that your instrument is performing to the the best of its abilities. Have confidence that if your Epredia cryostat needs service or repair, your instrument repairs will be expedited, ensuring minimal downtime in your laboratory.



## Cryostar NX70 Cryostat

Designed to fulfill the needs of both research and clinical laboratories, the CryoStar NX70 cryostat introduces a form-fitting design, integrated height control and motorized sectioning. Go quickly from mounting tissue to ready-to-cut with quick-freeze and setup features. Section tissue samples more efficiently with improved stability and individually controlled temperature settings on both the object holder and blade carrier.

### First-Rate Sectioning for the Precision You Demand

- Independent cooling of blade holder and specimen head keeps cutting area at set temperatures, even during periods of high use
- Novel knife carrier feed enhances sectioning stability and quality
- Rapid-response temperature control provides active cooling of the specimen head, blade holder, and cryobar while maintaining consistent specimen temperature
- Dedicated low- and high-profile blade holders and separate knife carrier improve stability

### Safe, Comfortable, and In Control

- Large, open chamber with bright LED illumination offers an optimized workspace for operators, featuring eighteen tissue stations and one fast-freeze Peltier for quick, efficient sample preparation
- Optional Cold D system provides a supplementary cleaning process that significantly reduces the risk of microbial infection in under 60 minutes while the cryostat is still cold
- Light-touch handwheel requires minimal force to operate, limiting repetitive motion discomfort. Motorized cutting helps reduce user fatigue and avoid repetitive motion injury
- Body-contoured design positions the user closer to the chamber to maintain comfortable posture and aids in reducing back and neck strain often associated with frozen sectioning
- Integrated height adjustment (32-44 in. / 82-112 cm), supporting both standing and seated operation with the touch of a button

### Enhanced User-Experience

- Optional Vacutome feature aids in generating wrinkle-free sections and can also be used to remove waste from chamber
- Integrated joystick control and color LCD touchscreen allow for quick, precise adjustments, easy operation for end users, and training for additional users
- Programmable and immediate defrost options

### Physical Specifications

Dimensions (D x W x H):  
39.4 x 29.7 x 32.3-44.0 in.  
(100 x 75.5 x 82-112 cm)  
(adjustable)

Weight: 440 lbs / 200 kg

Power requirements:  
100 V, 50/60 Hz, 10A  
100-120 V, 60 Hz, 10A  
220-230 V, 50/60 Hz, 5A

### Base Model Includes

Five specimen stages (4 x 30 mm,  
1 x 40 mm), anti-roll plate, section  
waste tray, brush shelf, debris  
brush, sectioning brush, blade  
handling tool, and operator guide

Description	Configuration	Order Number
NX70, 110 V (unit only)	HOMP	957000
NX70, 220-240 V (unit only)	HOMP	957040
NX70, 110 V (unit only)	HOMPD	957010
NX70, 220-240 V (unit only)	HOMPD	957050
NX70, 110 V (unit only)	HOMPV	957020
NX70, 220-240 V (unit only)	HOMPV	957060
NX70, 110 V (unit only)	HOMPDV	957030
NX70, 220-240 V (unit only)	HOMPDV	957070

Please note that instrument order numbers are for the unit only. To purchase a blade holder (low- or high-profile, or steel knife), please see the blade holder section for respective order numbers.

#### Configuration Descriptions

H - Height Adjustment

O - Object Cooling

M - Motorized

P - Peltier

D - Cold Disinfection

V - Vacutome

#### **Features:**

- Adjustable cutting speed from 0 mm/s to 256 mm/s
- Section thickness from 0.5  $\mu\text{m}$  to 500  $\mu\text{m}$
- Vertical stroke length of 64 mm
- 48 mm horizontal feed range
- 20  $\mu\text{m}$  specimen retraction on return stroke, with optical indication

Order Eprexia stainless steel blades, designed for cleanly cutting high-quality frozen sections in your cryostat from Eprexia.

#### **You'll need:**

 blades & blade holders

 specimen stages

 staining kits

 embedding media



## Cryostar NX50 Cryostat

Get optimal sectioning quality paired with enhanced ergonomics and safety with the Cryostar NX50. The NX50 is designed to accommodate the needs of your routine clinical laboratory. This manual cryostat offers a form-fitting design with optional height adjustment, cold disinfection, and Vacutome, allowing users to customize their sectioning experience.

### Precise Sectioning

- Active cooling of the specimen head, blade holder, and cryobar maintains consistent specimen temperature
- Reach the ideal temperature for each sample type in just minutes with rapid temperature control
- Precise stepping-motor blade advance for minimal vibration when sectioning
- Microtome design creates a stable sectioning platform for increased precision
- Precise sectioning delivers consistent sections of uniform thickness
- Optional Vacutome feature aids in generating wrinkle-free sections and can also be used to remove waste from the chamber

### Ergonomics and Comfort

- Body-contoured design positions the user closer to the chamber, maintaining comfortable posture
- Large, open work chamber with adjustable LED lighting for enhanced visibility
- Light-touch handwheel requires minimal force to operate
- Optional height adjustment can position the chamber height from 32 to 44 in. (82-112 cm), supporting both standing and seated operation, with the touch of a button
- Touch screen operation with intuitive software to accommodate multiple users

### Operator Safety

- Optional Cold D system provides a supplementary cleaning process that significantly reduces the risk of microbial infection in under 60 minutes while the cryostat is still cold
- Manual handwheel lock secures the position of the specimen head
- Magnetic blade-transfer tool supports safe removal of the blade from the holder

### Physical Specifications

Dimensions (D x W x H):  
39.4 x 29.7 x 32.3-44.0 in.  
(100 x 75.5 x 82-112 cm)  
(adjustable)

39.4 x 29.7 x 36.6 in.  
(100 x 75.5 x 93 cm)  
(fixed height model)

Weight: 440 lbs / 200 kg

Power requirements:  
100 V, 50/60 Hz, 10A  
110-120 V, 60 Hz, 10A  
220-240 V, 50/60 Hz, 5A

### Includes

Five specimen stages (4 x 30 mm, 1 x 40 mm), anti-roll plate, section waste tray, brush shelf, debris brush, sectioning brush, blade handling tool, and operator guide

Description	Configuration	Order Number
NX50,100-120 V (unit only)	OP	957250
NX50, 230 V (unit only)	OP	957220
NX50,100-120 V (unit only)	OPD	957100
NX50, 230 V (unit only)	OPD	957140
NX50,100-120 V (unit only)	OPV	957270
NX50, 230 V (unit only)	OPV	957200
NX50,100-120 V (unit only)	OPH	957260
NX50, 230 V (unit only)	OPH	957210
NX50,100-120 V (unit only)	OPHD	957110
NX50, 230 V (unit only)	OPHD	957150
NX50,100-120 V (unit only)	OPVD	957120
NX50, 230 V (unit only)	OPVD	957160
NX50,100-120 V (unit only)	OPHV	957230
NX50, 230 V (unit only)	OPHV	957170
NX50,100-120 V (unit only)	OPHVD	957130
NX50, 230 V (unit only)	OPHVD	957240

Please note that instrument order numbers are for the unit only. To purchase a blade holder (low- or high-profile, or steel knife), please see the blade holder section for respective order numbers.

#### Configuration Descriptions

O - Object Cooling

P - Peltier

H - Height Adjustment

V - Vacutome

D - Cold Disinfection

#### **Features:**

- Section thickness from 0.5  $\mu\text{m}$  to 500  $\mu\text{m}$
- Vertical stroke length of 64 mm
- 48 mm horizontal feed range

Epredia extended service packages offer prompt technical support and national coverage for service or repair, ensuring your instrument will be back up and running as quickly as possible.

#### **You'll need:**

 blades & blade holders

 specimen stages

 staining kits

 embedding media



## HM525 NX Cryostat

Deliver high-quality results comfortably and efficiently with the HM525 NX cryostat, a high-performance routine cryostat with intuitive software and touchscreen for simple, efficient operation. The HM525 NX cryostat offers reliability, advanced ergonomics and an intuitive interface.

### Exceptional Sectioning

- Reliable stepping motor technology delivers reproducible section thickness
- Adjustable chamber temperature control accommodates a wide range of specimens
- Automatic specimen retraction on return stroke protects specimen and reduces carryover artifacts
- Cryochamber features 27 cooled specimen positions, including four fast-freeze stations to keep up with heavy workloads

### Operator Safety

- Mechanical handwheel lock immobilizes the specimen head
- Optional, on-demand UV disinfection protects against surface contamination and occupational exposure to biological pathogens
- Stainless steel chamber and smooth surfaces allows efficient cleaning of the chamber

### User-Friendly and Ergonomic

- Icon-driven interface supports intuitive operation of the cryostat
- Allows rapid selection and adjustment of functions for efficient operation
- Specimen fast-freeze function and chamber brightness can be accessed from the menu
- Light-touch handwheel requires minimal force to operate, increasing comfort
- Additional knee space to support comfortable seated operation
- Body-contoured arm rests improve posture and comfort during periods of prolonged use
- Large, flat top to keep accessories and consumables readily available

### Physical Specifications

Dimensions (D x W x H):  
29.9 x 25.2 x 47.2 in.  
(75.9 x 64 x 119.8 cm) (w/o handwheel)

Weight: 315 lbs / 143 kg

Power requirements:  
100 V, 50 Hz, 12A  
100 V, 60 Hz, 12A  
115 V, 60 Hz, 12A  
220/230 V, 50 Hz, 6A  
220 V, 60 Hz, 6A  
240 V, 50 Hz, 6A

### Includes

Six specimen stages (30 mm), freezing medium (118 mL), cryostat oil (118 mL), section waste tray, debris brush, sectioning brush, tools and operator guide.

Description	Order Number
<b>HM525 NX (unit only)</b>	
HM 525 NX, 115 V (unit only)	956640
HM 525 NX, 220-230 V (unit only)	956650
<b>HM525 NX with UV disinfection (unit only)</b>	
HM525 NX with UV disinfection, 115 V (unit only)	956641
HM525 NX with UV disinfection, 220-230 V (unit only)	956651

**Features:**

- Chamber cooling to -35 °C
- Integrated peltier fast-freezing device rapidly cools to -60 °C
- Section thickness from 1 µm to 500 µm
- Vertical stroke length of 60 mm
- 28 mm horizontal feed range
- 40 µm specimen retraction on return stroke
- X/Y specimen orientation with 360° Z-axis rotation

**You'll need:**
 blades & blade holders

 specimen stages

 staining kits

 embedding media



## Cryostat Blade Holders

Description	Order Number	CryoStar NX70	CryoStar NX50	HM525 NX
<b>Blade holders for disposable blades</b>				
EC70 blade holder	705630			✓
EC blade holder	705470			✓
Low-profile blade holder	705840	✓	✓	
High-profile blade holder	705940	✓	✓	
<b>Knife carriers for solid knives</b>				
Standard	705460			✓
Standard knife carrier	705950	✓	✓	



### EC70 Disposable Blade Holder for HM525 NX

- Suitable for high- and low-profile disposable blades, with clearance angle adjustment
- Precision dovetail guide and quick clamping mechanism allows for easy movement
- Includes anti-roll guide and two glass anti-roll plates (69.5 mm)



### EC Disposable Blade Holder for HM525 NX

- Suitable for high- and low-profile disposable blades, with clearance angle adjustment
- Precision dovetail guide and quick clamping mechanism allows for easy movement
- Includes anti-roll guide and two glass anti-roll plates (39.5 mm)



### Standard Blade Holder for HM525 NX

- For use with standard solid knives
- Clearance angle adjustment and removable clamping jaws
- Precision dovetail guide and quick clamping mechanism allows for easy movement
- Includes anti-roll guide and two glass anti-roll plates (69.5mm)

## Disposable Blades for Cryostats

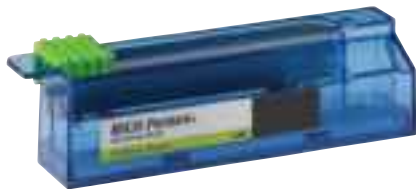
### Low-Profile Blades



#### **MX35 Ultra™ Low-Profile Blade**

Blades feature a proprietary steel hardening technology (Pink Technology) that delivers unbeatable longevity, making them excellent for cutting frozen sections.

3053835 | Blade angle: 34° | 50 / pack



#### **MX35 Premier +™ Low-Profile Blade**

Blades are designed to be extra sharp with an extended cutting life. Excellent for hard tissues.

3052835 | Blade angle: 34° | 50 / pack



#### **MX35 Premier™ Low-Profile Blade**

Blades are designed for routine histology and are good for a variety of tissue types, including hard tissue.

3051835 | Blade angle: 34° | 50 / pack



#### **MB35™ Premier Low-Profile Blade**

Blades are best for routine applications and have consistent edge sharpness for high-quality thin sections. Feature superior edge stability.

3050835 | Blade angle: 34° | 50 / pack



#### **MB22 Premier™ Low-Profile Blade**

Blade is designed with a steeper angle that allows users to cut thinner sections.

3050822 | Blade angle: 22° | 50 / pack

## High-Profile Blades



### HP35 Ultra™ High-Profile Blade

Blades designed for use with cryostats. Proprietary steel hardening technology (Pink Technology) delivers increased longevity.

3153735 | Blade angle: 34° | 50 / pack



### HP35N Ultra™ High-Profile Blade

Blades designed similarly to the HP35 Ultra High-Profile Blade, but with no PTFE Coating.

3151735 | Blade angle: 34° | 50 / pack

Blade Type	Low-Profile Blades					High-Profile Blades	
Description	MX35 Ultra	MX35 Premier +	MX35 Premier	MB35 Premier	MB22 Premier	HP35 Ultra	HP35N Ultra
Order number	3053835	3052835	3051835	3050835	3050822	3153735	3151735
Edge angle	34°	34°	34°	34°	22°	34°	34°
Cryostat compatibility	Best	Good	Good	Good	Best	Best	Good



### Richard Allan Scientific™ Edge-Rite™ Disposable Microtome Blades

Made of surgical-grade steel, low- and high-profile blades are specially coated to increase longevity and optimize section quality.

- Low-profile blades are 20% thicker than traditional blades to increase knife edge stability, which facilitates usage in cryostats
- Low-profile blades are 5% longer, allowing for more sections per blade

Low-Profile (4280L) | High-Profile (4275H) | 50 / pack



### Shandon Premium Disposable Microtome Blades

Epredia Shandon premium high-profile disposable blades are available in non-coated and PTFE-coated styles.

Premium High-Profile with no coating (1001259) | 50 / pack

Premium High Profile with PTFE-coating (1001593) | 50 / pack

## Specimen Stages

Description	Order Number	CryoStar NX70	CryoStar NX50	HM525 NX
<b>Specimen Stages</b>				
20 mm specimen stage	715700			✓
30 mm specimen stage (color coded)	715220			✓
30 mm specimen stage	715710			✓
30 mm specimen stage	715600	✓	✓	
30 mm specimen stage; red	715870	✓	✓	
30 mm specimen stage; green	715880	✓	✓	
30 mm specimen stage; blue	715890	✓	✓	
30 mm specimen stage; gold	715900	✓	✓	
40 mm specimen stage (color coded)	715230			✓
40 mm specimen stage	715720			✓
40 mm specimen stage	715610	✓	✓	
60 mm specimen stage	715620	✓	✓	
50 x 50 mm specimen stage	715730			✓
55 x 55 mm specimen stage	715740			✓
60 x 55 mm specimen stage	715750			✓
75 x 70 mm specimen stage	715760			✓
<b>Cryo-Molds</b>				
Cryo-mold, 10 mm	570400	✓	✓	✓
Cryo-mold, 15 mm	570380	✓	✓	✓
Cryo-mold, 22 mm	570390	✓	✓	✓



## Staining Kits



### Frozen Section Staining Kit (145)

Ideal for laboratories that process frozen sections. Works well for staining tissue mounted on coverglass.

- Sturdy cover with piano hinge seals beakers to minimize evaporation
- Rubber feet on rack protect table surface
- Glass beakers have a capacity of 200 mL and are 10 cm tall
- Slide holder will hold ten 76 x 25 mm slides
- Stainless steel rack measures 21.6 x 48.3 x 22.6 mm
- Kit includes twelve beakers, a stainless steel slide holder, and a heavy-gauge stainless steel support rack with six round openings to hold beakers

## Embedding Media



### Shandon Cryomatrix™ Embedding Medium

Outstanding embedding medium used to support tissue for frozen sectioning.

- Forms a firm bond with the specimen holder that secures and supports tissue
- Removed during staining
- Freezes quickly, sections smoothly, and dissolves in water without residue

120 mL | 4 / pack



### Shandon M-1 Embedding Matrix

Water-soluble, clear embedding medium.

- Particularly effective on specimens with high water content such as eyes and CNS
- Optimum sectioning temperature of -12 °C to -13 °C

180 mL | 1 each



### Cryochrome

- Outstanding embedding matrix used to support tissue for frozen sectioning
- Easy tracking and identification with multiple color options
- Formulated with physical characteristics identical to EpreDia™ Cryomatrix™ embedding medium



### Neg-50 Frozen Section Medium

- Water-soluble frozen section medium that yields high-quality sections down to -50 °C without chatter
- Leaves no residue after staining
- Easy tracking and identification with varying colored matrix

Description	Quantity	Order Number
Shandon Cryomatrix Embedding medium (120 mL)	4 / pack	6769006
Shandon M-1 Embedding Matrix (180 mL)	ea.	1310

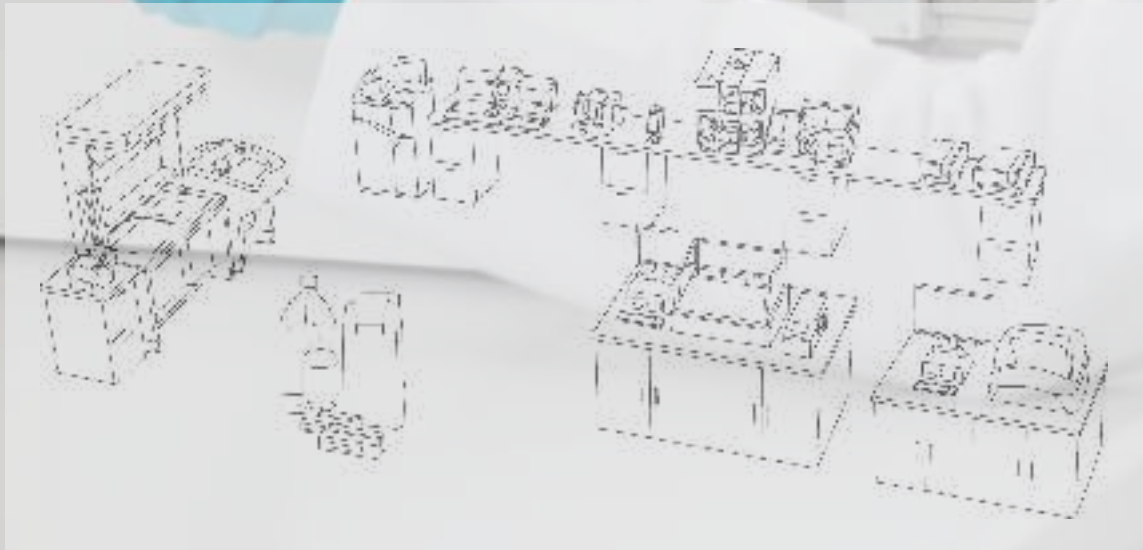
Description	Quantity	Order Number
Cryochrome blue, 120mL	4 / pack	9990422
Cryochrome yellow, 120 mL	4 / pack	9990423
Cryochrome green, 120 mL	4 / pack	9990428
Cryochrome pink, 120 mL	4 / pack	9990429
Cryochrome sampler (one of each color), 120 mL	4 / pack	9990426

Description	Quantity	Order Number
Colorless Neg-50, 4 oz (118 mL)	2 / case	6502
Blue Neg-50, 4 oz (118 mL)	2 / case	6502B
Green Neg-50, 4 oz (118 mL)	2 / case	6502G
Orange Neg-50, 4 oz (118 mL)	2 / case	6502O
Pink Neg-50, 4 oz (118 mL)	2 / case	6502P
Yellow Neg-50, 4 oz (118 mL)	2 / case	6502Y
Colorless Neg-50 4 oz (118 mL)	6 / case	6506
Neg-50 sampler (one of each color) (118 mL)	6 / case	6505M



# Microtomy

superior  
sectioning  
results





## Section safely with excellent quality

Microtomes from EpreDia are designed to be precise and stable, helping to yield superior sectioning results for even the most difficult-to-cut paraffin sections.

### Designed with the end user in mind

- With both automatic and manual options available, we have the right fit for you, your lab, and your paraffin sections

### Specificity in action

- User-friendly control panels facilitate flexibility
- Fully-adjustable to ensure the correct thickness

### Non-tiring comfort

- Ergonomic designs with integrated waste trays to save you time and energy
- Emergency stop features to keep you safe (HM355S only)

### The Total Solution

- Wide variety of steel low- and high-profile blades for cutting various tissue types
- Cool-Cut and Section Transfer System™ assist in placing cooled, wrinkle-free sections on glass microscope slides
- Glass microscope slides ensure high levels of transparency to aid in accurate diagnosis
- Get peace of mind with EpreDia service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory



## Microtome Range and Selection Guide

Epredia					
Microtome Features	HM 355S	HM 340E	HM 325	HM 450	HM 430
Rotary	✓	✓	✓		
Sliding				✓	✓
Cross-roller bearing vertical guide-ways	✓	✓	✓		
Specimen trimming	✓	✓	✓	✓	
Selectable specimen retraction	✓	✓	✓	✓	
Detachable operation panel	✓	✓			
Manual coarse advance			✓		✓
Electronic coarse advance	✓	✓		✓	
Stepping motor technology	✓	✓		✓	
Section thickness	0.5-100 µm	0.5-100 µm	0.5-60 µm	0.5-100 µm	0.5-60 µm
Trim thickness	5-500 µm	5-500 mm		5-500 µm	
Electronic sectioning	✓				
Handwheel locks in any position	✓	✓	✓		
Integrated waste tray	✓	✓	✓	✓	✓
"Rocking" mode	✓		✓		
Macro / SuperMega capability	✓	✓	✓	✓	✓
Compatible with Cool-Cut	✓	✓	✓		
Compatible with Epredia™ Section Transfer System (STS™)	✓	✓	✓		
Resin cutting capability	✓				

## Microtome Total Care

### Microtome Consumables and Accessories

Epredia microtomy consumables are created specifically for use with your Epredia automatic or manual microtome. Blades are designed to section many different tissue types from soft tissue to biopsies and re-cuts. The Cool-Cut and Section Transfer System aid in transferring thin and fragile tissue sections to our wide variety of glass microscope slides, protecting precious tissue samples.

### Microtome Service

Your laboratory is a busy place that performs many important tasks – extended service contracts keep you up and running. Yearly preventative maintenance gives you peace of mind that your instrument is performing to the the best of its abilities. Have confidence that if your microtome from Epredia needs service or repair, your instrument repairs will be expedited, ensuring minimal downtime in your laboratory.



## Rotary Microtome HM 355S

### Reproducible Quality

- X/Y fine orientation with reproducible zero positioning
- Memory function for specimen positioning
- Control panel featuring multi-function keypad and knobs allows for easy selection of section thickness, sectioning mode, speed control, memory function, and menu options.

### Operator Safety

- Safe, ergonomic, and intuitive fully automated rotary microtome
- Motorized sectioning can be operated via speed/start-stop knob, start-stop button, or optional foot pedal
- Prevention of accidental start by double-click operation and automatic brake following motorized action
- Ergonomic, removable control panel can be located on either side of the microtome
- Easily accessible emergency stop button

### Added Convenience

- Easily switch between thickness settings for trim and section/fine
- Rocking mode allows the handwheel to be “rocked” into a forward position allowing advancement of the specimen without a complete rotation of the handwheel
- Four motorized modes of operation (single section, interval, multi-section, and continuous)
- Large, removable section waste tray covers the entire working area

### Physical Specifications

Dimensions (D x W x H):  
20.5 x 16.1 x 11 in.  
(52 x 41 x 28 cm)

Weight: 68.3 lbs / 31 kg

Horizontal feed range: 28 mm  
Cutting stroke: 72 mm  
Sectioning speed: 0-450 mm/s  
Section thickness range: 0.5-100 µm  
Trim thickness range: 5-500 mm  
Retraction: 40 µm





Power requirements:  
100-240 V, 50/60 Hz, 1.6A

### Includes

Standard tools, brushed aluminum cover plate, dust cover, instruction manual

Description	Order Number
HM 355S unit only	905200
With Universal Cassette Clamp and E blade holder	905200A
With Universal Cassette Clamp and ER blade holder	905200ER

### You'll need:

-  blades, blade holders, knives
-  Cool Cut and STS
-  microscope slides
-  freezing sprays



## Rotary Microtome HM 340E

### Stability and Speedy Preparation

- Highly stable blade holder platform yields high-quality ribbons, even for difficult to cut paraffin sections
- Ergonomic removable control panel can be located on either side of the microtome
- Control panel featuring multi-function keypad and knobs allows for easy selection of section thickness, sectioning mode, speed control, memory function, and menu options.
- Easily switch between thickness settings for trim and fine sectioning
- Memory function for section positioning
- X/Y fine orientation with reproducible zero positioning
- Rocking mode allows the handwheel to be “rocked” into a forward position allowing advancement of the specimen without a complete rotation of the handwheel
- Motorized specimen advance
- Specimen retraction (can be deactivated)
- Longest stroke length available (72 mm) allows high-quality sections of Macro / SuperMega cassettes
- Large, removable section waste tray covers the entire working area

### Physical Specifications

Dimensions (D x W x H):  
20.5 x 16.1 x 11 in.  
(52 x 41 x 28 cm)

Weight: 61.7 lbs / 28 kg

Horizontal feed range: 28 mm  
Section thickness range: 0.5-100  $\mu$ m  
Trim thickness range: 5-500 mm  
Retraction: 40  $\mu$ m

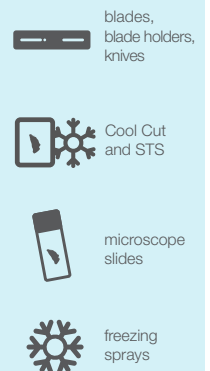
Power requirements:  
100-240 V, 50/60 Hz

### Includes

Standard tools, brushed aluminum cover plate, dust cover, and operator guide

Description	Order Number
HM 340E unit only	905190
With Universal Cassette Clamp and E blade holder	905190A
With Universal Cassette Clamp and ER blade carrier	905190ER

### You'll need:





## Rotary Microtome HM 325

### Trusted Performance, Added Efficiencies

- High stability and precision for premium-quality paraffin sections
- Unique section thickness setting with removable knobs allowing operation with both the right and left hands
- Resettable electronic section counter
- Two quick-trim stages (10  $\mu\text{m}$  and 30  $\mu\text{m}$ ) independent from the preset fine section thickness
- X/Y fine orientation with reproducible zero positioning
- Manual coarse feed wheel
- Specimen retraction (can be deactivated)
- Long stroke length (64 mm) allows high quality sections of Macro / SuperMega cassettes
- Large, removable section waste tray covers the entire working area

### Physical Specifications

Dimensions (D x W x H):  
19 x 16.5 x 11 in.  
(49 x 42 x 28 cm)

Weight: 51 lbs / 23 kg

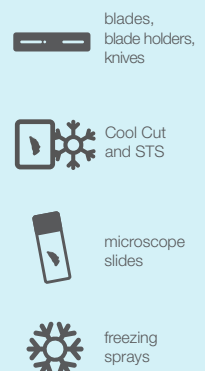
Horizontal feed range: 28 mm  
Section thickness range: 0.5-60  $\mu\text{m}$   
Mechanical trim stages: 10/30  $\mu\text{m}$   
Retraction: 60  $\mu\text{m}$

### Includes

Standard tools, brushed aluminum cover plate, dust cover, and operator guide

Description	Order Number
HM 325 unit only	902100
With Universal Cassette Clamp and E blade holder	902100A
With Universal Cassette Clamp and ER blade carrier	902100ER

### You'll need:





## Sliding Microtome HM 450

### Outcome Driven

- Selectable specimen retraction
- Motorized coarse feed with three different speed settings
- Automatic or manual specimen advance during sectioning can be selected depending upon user preference
- X/Y fine orientation with reproducible zero positioning

### Ease-of-Use

- Integrated knife holder glides along a maintenance-free, precision, cross-roller bearing system ensuring fast, comfortable operation
- Ergonomic handle for moving knife holder
- User-friendly control panel allows for easy setting of sectioning parameters
- Incorporates stepping motor technology to ensure precise, accurate specimen advancement
- Trimming function allows for precision block trimming prior to the sectioning function
- Display shows feed (section) / trim thicknesses, feed mode and retraction status, as well as choice of section counter, step sum, or remaining travel.
- Integrated, removable waste tray
- Knife holder with integrated, movable knife guard
- Inserts available for the use of low-and high-profile disposable blades

### Physical Specifications

Dimensions (D x W x H):  
18.1 x 14.6 x 12.6 in.  
(46 x 37 x 32 cm)

Weight: 50.7 lbs / 23 kg

Accommodates specimens up to  
80 x 60 mm  
Section thickness feed: 0.5-100  $\mu$ m  
Trimming thickness: 10-500  $\mu$ m  
Vertical feed range: 40 mm (max)  
Horizontal knife stroke: 190 mm (max)

Power requirements:  
100-240 V, 50-60 HZ, 0.5A

### Includes

Dust cover and operator guide

Description	Order Number
HM 450 unit only	910020
With low-profile blade insert and 45 x 80 mm specimen clamp	910020L
With high-profile blade insert and 55 x 80 mm specimen clamp	910020H

### You'll need:



blades,  
blade holders,  
knives



microscope  
slides



freezing  
sprays



## Sliding Microtome HM 430

### Versatility meets Accuracy

- Selection of the stroke length depending on the size of the specimen
- Coaxial specimen orientation and memory function for rapid re-orientation of pre-cut blocks
- Integrated blade holder glides along a maintenance-free, precision, cross-roller bearing system
- Easy knob turn selects manual or automatic advance
- Integrated removable waste tray
- X/Y fine orientation with reproducible zero positioning
- Blade holder with integrated, movable blade guard
- Ergonomic handle for moving blade holder

### Physical Specifications

Dimensions (D x W x H):  
19.3 x 14.2 x 12.6 in.  
(49 x 36 x 32 cm)

Weight: 50.7 lbs / 23 kg


Accommodates specimens up to  
80 x 60 mm  
Section thickness feed: 0.5-60 µm  
Vertical feed range: 40 mm (max)  
Horizontal knife stroke: 190 mm (max)

### Includes

Dust cover and operator guide

Description	Order Number
HM 430 unit only	910010
With low-profile blade holder and 45 x 80 mm specimen clamp	910010L
With high-profile blade holder and 45 x 80 mm specimen clamp	910010H

### You'll need:



blades,  
blade holders,  
knives



microscope  
slides



freezing  
sprays



## Blade Holders



### **E Disposable Blade Holders for HM 355S, HM 340E, and HM 325**

- With quick clamp system for high- and low-profile blades, clearance angle adjustment
- Movable blade guard with scale covers the entire blade in any position



### **ER Disposable Blade Holders for HM 355S, HM 340E, and HM 325**

- With quick clamp system for high- and low-profile blades, clearance angle adjustment
- Clamping plate moves laterally to move the blade without needing to unclamp
- Used for cutting Macro / SuperMega cassettes (vertically)
- Movable blade guard covers the entire blade in any position
- Removable cutting angle adjustment lever

### **Standard Solid Knife Carrier N for HM 355S, HM 340E, HM 325**

- With integrated blade guard and clearance angle adjustment
- Blade height can be adjusted by means of a guidance bar
- Removable cutting angle set lever

### **Standard Solid Knife Carrier C for HM 355S, HM 340E, HM 325**

- Stable version for use with tungsten carbide and conventional blades
- Central clamping plate provides optimal stability where the cutting forces are highest
- Allows full use of the entire blade edge and clearance angle adjustment
- Removable cutting angle set lever

Description	Order Number
E disposable blade holders for HM 355S, HM 340E, HM 325	705800
ER disposable blade holders for HM 355S, HM 340E, HM 325	705830
Standard solid knife carrier N for HM 355S, HM 340E, HM 325	705820
Solid knife carrier C for HM 355S, HM 340E, HM 325	705810

## Disposable Blades for Microtomes

### Low-Profile Blades



#### **MX35 Ultra™ Low-Profile Blade**

All-around excellent low-profile blade for all types of tissue sectioning and increased blade life.

3053835 | Blade angle: 34° | 50 / pack



#### **MX35 Premier +™ Low-Profile Blade**

Blade designed for sectioning hard tissue and high-quality thin sections.

3052835 | Blade angle: 34° | 50 / pack



#### **MX35 Premier™ Low-Profile Blade**

Excellent blade for routine application with higher proportion of harder tissue.

3051835 | Blade angle: 34° | 50 / pack



#### **MB35™ Premier Low-Profile Blade**

Best for routine sectioning applications.

3050835 | Blade angle: 34° | 50 / pack



#### **MB22 Premier™ Low-Profile Blade**

Blade designed with a steeper angle, allowing users to accurately cut thinner sections faster. Excellent for renal biopsies and lymph nodes.

3050822 | Blade angle: 22° | 50 / pack

## High-Profile Blades



### HP35 Ultra™ High-Profile Blade

All-around excellent high-profile blade for all types of tissue sectioning and increased blade life.

3153735 | Blade angle: 34° | 50 / pack



### HP35™ High-Profile Blade

Blade designed for high-quality thin sectioning.

3150734 | Blade angle: 34° | 50 / pack



### HP35N Ultra™ High-Profile Blade

Sections all types of tissue for quality thin tissue sections. No PTFE coating.

3151735 | Blade angle: 34° | 50 / pack

Blade Type	Low-Profile Blades					High-Profile Blades		
Description	MX35 Ultra	MX35 Premier +	MX35 Premier	MB35 Premier	MB22 Premier	HP35 Ultra	HP35	HP35N Ultra
Order number	3053835	3052835	3051835	3050835	3050822	3153735	3150734	3151735
Edge angle	34°	34°	34°	34°	22°	34°	34°	34°
Cryostat	Best	Good	Good	Good	Best	Best		Good
Soft tissue	Best	Good	Good	Good	Good	Best	Good	Good
Hard tissue	Best	Best	Good	Good		Best		Good
Thin sectioning	Best	Good	Good	Good	Best	Best	Best	Good
Biopsies and recuts	Best	Good	Best	Good		Best		Good

## Richard Allan Scientific™ Edge-Rite™ Disposable Microtome Blades

Made of surgical-grade steel, low- and high-profile blades are specially coated to increase longevity and optimize section quality.



### Low Profile Blades

- Low-profile blades are 20% thicker than traditional blades to increase knife edge stability, which allows for excellent ribboning and facilitates usage in cryostats
- Blades are 5% longer, allowing for more sections per blade
- Fits any low-profile blade holder

Low-Profile (4280L) | High-Profile (4275H) | 50 / pack



## Shandon Premium Disposable Microtome Blades

Shandon premium standard high-profile disposable blades are available in heavy-duty and PTFE-coated styles.

Premium High-Profile (1001259) | 50/pack

Premium High Profile with PTFE-coating (1001593) | 50 / pack

## Knives and Blades



### Reusable Steel Knives

Epredia Reusable Steel Knives can be used with microtomes or cryostats when the technical application dictates that requirement.

- C-profile knives are used for standard paraffin and cryo-techniques

Accessories	Order Number
Steel C-profile knife 16 cm	152020



## Cool-Cut and Section Transfer System

Simplify your workflow at the microtome with two specially designed accessories which integrate seamlessly with the HM 355S, HM 340E and HM 325 rotary microtomes.

### Cool-Cut

- Maintains a cool, consistent temperature for paraffin blocks reducing the need to repeatedly ice down blocks
- Particularly effective during extended cutting sessions for “step sections” or “serial sections”
- Peltier device fits directly onto the specimen cylinder of the microtome and can be equipped with a universal cassette clamp or a standard specimen clamp

Description	Order Number
Cool-Cut with universal cassette clamp	771110
Cool-Cut with standard clamp	771120

### Cool-Cut Physical Specifications

Dimensions (D x W x H):  
3.74 x 2.36 x 7.1 in.  
(9.5 x 6 x 18 cm)

Weight: 1.54 lbs / 700 g

Power requirements:  
100-240 V, 50-60 HZ, 0.6A

Includes:  
Peltier device with integrated specimen clamp, counter-balance weights and power supply.

### Section Transfer System Physical Specifications

Includes:  
Control unit, water bath with lid, section transfer unit, disposable blade holder and cables.

### Section Transfer System

- Adjustable, laminar water flow rate produces more usable sections per block
- Selectable water temperature from ambient temperature up to 50 °C
- Illuminated, aluminum water bath enhances section visibility
- The common manual transfer of the sections into a water bath is no longer necessary

Description	Order Number
Section Transfer System with bar guide-way	771200

For more information on EpreDia's full range of microtome accessories, please contact your EpreDia representative.

## Microscope Slides

Our microscope slides are made from fine white glass, manufactured to high quality standards in our Swiss glass manufacturing plant. The clarity achieved by our manufacturing process helps ensure high levels of transparency to aid in accurate diagnosis. Our skilled glassmakers strive to create slides with lot-to-lot and box-to-box consistency. Fully integrated quality controls include several checkpoints for testing, ensuring high quality product for laboratory use. All slides are pre-cleaned, thin, flat, and feature finely ground edges. Each pack is wrapped to protect against humidity and moisture.

### Plain Slides

- Slide surface is completely plain without a frosted or printed tab
- Manufactured to the highest quality standards for use in hematology, microbiology, urinalysis, as well as other applications.

### Superfrost and Colorfrost Slides

- Superfrost and Colorfrost™ Slides feature a durable, easy to write, print and label printed tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents
- Available in a wide variety of colors to ease identification

### Specialty Printed Slides

- Localize cells in an easily-identifiable area on the slide surface
- Wells are surrounded by a chemical and water-resistant hydrophobic ink mask
- Available in 1, 3, 8, 10, and 12-well configurations

### Polysine Adhesion Slides

- Adhesive coating attracts paraffin-embedded sections to slide surface
- Polysine slides are coated with a derivative of the chemistry for poly-L-lysine
- Feature a durable, easy to write, print, and read printed white tab
- Printed white tab is impervious to virtually all common laboratory chemicals and reagents



### Superfrost Excell Adhesion slides

- Superfrost Excell adhesion slides feature a unique chemistry with strong adhesion properties
- Useful in applications involving high pH Heat Induced Epitope Retrieval (HIER)
- Feature a durable, easy to write, print and read printed white tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents

### Superfrost Plus Gold Adhesion Slides

- Superfrost Plus Gold Adhesion Slides are made with a complex adhesive technology which attracts and chemically bonds fresh or formalin-fixed frozen tissue sections firmly to the surface of the slide
- Recommended for hard-to-hold tissue samples like bone, brain, breast and skin
- Feature a durable, easy to write, print and read printed white tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents

### SuperFrost Plus and ColorFrost Plus Adhesion Slides

- SuperFrost™ Plus and Colorfrost Plus adhesion slides are designed to secure tissue sections without the need for laboratory-applied coatings
- Slides secure frozen and formalin-fixed, paraffin embedded tissue sections as well as cytology preparations.
- Each slide features a chemistry based on silane, although optimized to improve application performance
- Feature a durable, easy to write, print, and read printed tab
- Printed tab is impervious to virtually all common laboratory chemicals and reagents
- Available in a wide variety of colors to ease identification



## Paraffin Repellent

### **Parapel™ Paraffin Repellent**

Protect against excess buildup of wax on countertops and instrumentation.

50 mL | 12 / case

Description	Quantity	Order Number
Parapel paraffin repellent 50 mL	ea.	2300TS

## Freezing Sprays



### Richard-Allan Scientific™ Cytocool™ II Freezing Spray

Used to “flash-freeze” tissue specimens during microtomy.

- Does not contain ozone-depleting CFCs
- Simply vary finger pressure on the trigger nozzle to control tissue freezing; helps to prevent over-cooling of specimen
- Integral trigger nozzle eliminates need to attach separate handle to each can, making Cytocool II freezing spray less bulky and more comfortable to hold during use

11 oz (325 mL) | 12 / case

### Ice-It™ Rapid Freezing Spray

Ozone-friendly freezing spray for use during microtomy.

- Comfortable trigger nozzle makes dispensing easy to control
- Attachable capillary nozzle enables spot freezing
- Contains 1, 1, 1, 2 Tetrafluoroethane

11 oz (325 mL) | 12 / case



### Shandon™ Envi-Ro-Tech™ Freezing Spray

Freezing spray for use during microtomy.

- Ozone friendly

234 mL

Description	Quantity	Order Number
Richard-Allan Scientific Cytocool II freezing spray (11 oz / 325 mL)*	12 / case	8323
Ice-It rapid freezing spray (11 oz / 325 mL)*	12 / case	8325
Shandon Freezing Spray (234 mL)*	ea.	6769038

\*Not available for purchase in EU or Canada



**Staining**  
consistently  
clear results

## Confidence begins with a crisp, well-defined stain

Epredia histology and cytology stains produce consistent, clear results for hospitals, cancer centers and private labs.

### High-Performance

- Achieve optimum staining performance
- Nuclear clarity and superb definition
- Wide variety of easy-to-use special stains

### Intelligent Workflow Optimization

- Top-of-the-line instruments designed to save on space and offer automatic optimization of staining routines
- Conduct manual staining procedures with our wide selection of staining racks and accessories

### The Total Solution

- Reduce spills with easy-to-pour dehydrants
- Ensure high-quality and consistent results with reagent grade cleaning reagents
- Get peace of mind with Epredia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory



## Gemini AS Slide Stainer



### Physical Specifications

Dimensions (D x W x H):  
31 x 28.5 x 35 in.  
(79 x 72 x 88.8 cm)

Weight: 192 lbs / 87 kg

Power requirements:  
300 VA at 100-240 VAC, 50/60 Hz

### Includes:

Unheated stainer; 35 stain pots (320 mL fill volume) supplied, fitted. Heated stainer; 30 stain pots (320 mL fill volume) and five heater pots supplied, fitted. Both models contain charcoal filter, staining baskets/carriers (5/pk x 2), three-well water station (two fitted), single pot covers (6/pk.), multi-pot covers (4/pk.), 2.5 m water inlet hose, spare staining pots (3/pk.), operator guide, operator guide CD, laminated quick reference cards and service record book

### Versatility in action

- 26 reagent stations – enough to run several protocols. Fully editable, user defined protocols allow the user to perform multiple actions at once, saving time
- Urgent start gives user the opportunity to prioritize “urgent” baskets without compromising those already in process
- Open system uses EpreDia stains and reagents
- Compatible with EpreDia range of coverslippers and Slide Basket Transfer System to reduce time in the lab
- Five optional on-board heaters cater to slide drying in high-volume situations

### Auto-Optimization

- Easy-to-use software schedules runs, allocates reagents, optimizes reagent layout, and calculates the most efficient route for each protocol to maximize throughput and minimize reagent carryover
- Step-start capability allows protocols to be started from any step
- Quality control system can be set to monitor reagent usage and batch throughput
- PIN protection system secures operator’s customized protocols and settings

### Space-Saving Design

- Unique, small footprint allows Gemini AS stainer to fit into any laboratory space
- Reagent stations are easy to access with a turntable on the lower level

Description	Order Number
Gemini AS with 5 heater stations	A81500001
Gemini AS unheated	A81500002

Accessories	Order Number
Charcoal filter	9990610
Static water wash station	A78010226
Vent adapter kit	A78010467
Water wash pot, 3 well	A78010201
Water wash inlet hose	AP14160
1 GB USB stick	AP17385
Reagent pot (3 / pk.)	A78010487
Reagent pot cover, multi-pot (4 / pk.)	A78010488
Reagent pot cover, single pot (6 / pk.)	A78010489
Basket/carrier (5 / pk.) (each holds 20 slides)	A78010466
Gemini baskets (ClearVue compatible), black slider (5 / pk.)	A79210064
Gemini baskets (ClearVue compatible), white slider (5 / pk.)	A79210065
Carrier for Sakura™ racks (5 / pk.)	A78010404
Pot insert for manual coverslipping (3 / pk.)	A78010505
Basket adapter for large slides up to 3 x 2.3 in. (45 x 58 mm) (5 / pk.)	



Did you know that EpreDia offers a combined staining and coverslipping solution?

Checkout the [Slide Basket Transfer System](#), compatible with the ClearVue coverslipper and Gemini AS slide stainer

## You'll need:



staining assemblies



staining accessories



staining jars



staining reagents



## Manual Staining Station



The Manual Staining Station is ideal for unique staining needs, frozen sections, or special stains.

- Uses the same staining troughs and slide baskets as the Gemini AS slide stainer
- Best when used for low-volume procedures
- Sturdy cover closes over troughs to minimize evaporation
- Baskets are designed to lock slides into position even when turned upside down
- Slide baskets hold 20 standard microscope slides
- Troughs hold 11 fl oz (320 mL) of reagent

### Physical Specifications

#### Dimensions:

(D x W x H): 7.1 x 39.4 x 4.7 in.  
(18 x 100 x 12 cm)

#### Includes:

Kit includes a steel support rack, a complete set of fourteen staining troughs (No. A78010487) and five slide baskets with carriers (No. A78010466) ; 5/pk

Description	Order Number
Manual Staining Station	A78500001

Accessories	Order Number
Staining troughs (3 / pk.)	A78010487
Reagent trough cover, (6 / pk.)	A78010489

### You'll need:



staining assemblies



staining accessories



staining jars



staining reagents

## Linistat Linear Stainer



Streamline your laboratory's workflow during frozen sectioning with the Linistat linear stainer, a compact and efficient staining device that is ideally suited to H&E frozen sections.

- Designed to fit on top of most cryostats
- Fourteen staining stations (twenty seconds each)
- Running water and a thirteen-slide capacity collection tank
- Staining time is under five minutes
- For situations that require hand staining, technicians may dip through the stations, eliminating the need to set up separate staining dishes
- Color-coded slide clips correspond to the colored slides and colored frozen section embedding media, Cryochrome™

### Physical Specifications

Dimensions (D x W x H):  
7.5 x 25 x 7.5 in.  
(19 x 64 x 19 cm)

Clearance height: 10.25 in.

Weight: 16.3 lbs (7.3 kg)

Power requirements:  
115 Vac, 60 Hz, 1.0A  
230 Vac, 50 Hz, 0.5A

### Includes:

Single station staining dishes, double station staining dishes, slide clips and rinse water tubing kit.†

† Contents, packaging and quantities of inclusions are subject to change without prior notice.

Description	Order Number
Linistat; 110 - 120 V; 60 Hz	B1000200
Linistat; 220 - 240 V; 50 Hz	B1000201

Accessories	Order Number
Double station staining dishes (5 / pk.)	6754004
Single station staining dishes (10 / pk.)	6754003
Slide clips, pink (25 / pk.)	6754005
Slide clips, blue (25 / pk.)	6754006
Slide clips, yellow (25 / pk.)	6754007
Slide clips, green (25 / pk.)	6754008
Anti-evaporation lid (single station)	231644
Anti-evaporation lid (double station)	231645
Anti-evaporation lid (triple station)	231646
Stainless steel holding tank	A79830072
Stainless steel evaporation; 18 in. (46 cm)	A79830022

### You'll need:





## Slide Basket Transfer System

The Slide Basket Transfer System (SBTS) eliminates the need to manually transfer slide baskets from the Gemini AS slide stainer to the ClearVue coverslipper.

- Free up your team's time with automatic transfer from the Gemini AS slide stainer to the ClearVue coverslipper
- Simply place slides in the Gemini AS slide stainer and carry on with other tasks without distraction
- The system will alert you when the slides have finished coverslipping in the ClearVue coverslipper
- With a small footprint, the combined system of the Gemini AS slide stainer, Slide Basket Transfer System, and ClearVue coverslipper seamlessly fits into virtually any laboratory workflow
- Compatible with the Gemini AS and ClearVue systems made after February 2018 only

Description	Order Number
Slide Basket Transfer System	A84500001

Accessories	Order Number
SBTS baskets (5) black	A84510032
SBTS baskets (5) white	A84510041
Operator guide	A84510100
Documentation CD	A84510100-CD
Xylene tray	A84530101
Manual unload tool	A84530110
Wash bottle	AP18730

### Physical Specifications

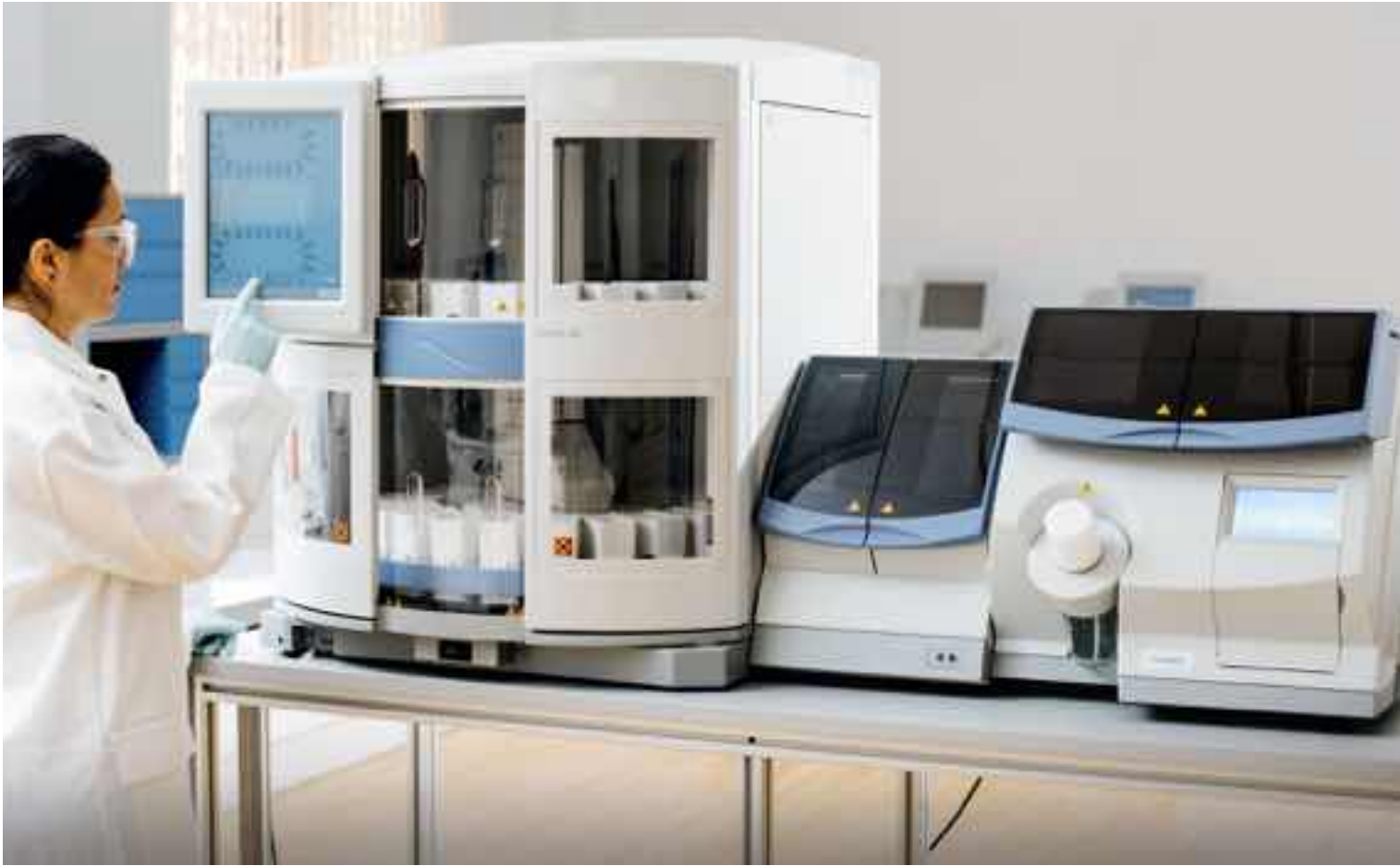
Dimensions (D x W x H):  
53 x 35 x 43 cm

Weight:  
44 lbs, 20 kg

Power requirements:  
100-240 Vac, 50/60 Hz, 600 VA

### You'll need:





## Complete Staining Assemblies



### Complete Staining Assembly 110

- Complete assembly 110 includes rack/handle (No. 113), dish (No. 112) and cover (No. 111)
- Staining rack 113 is made from stainless steel and holds up to 30 slides; maximum slide size is 3 x 2 in. (76 x 51 mm)
- Staining dish 112 is made from stainless steel with inside dimensions of 4.3 x 3.35 x 2.95 in. (110 x 85 x 75 mm)
- Staining dish holds up to 350 mL of solution with a fully loaded staining rack
- Staining dish cover 111 is made from stainless steel



### Complete Staining Assembly 121

- Complete assembly 121 includes rack/handle (No. 113), dish (No. 122) and cover (No. 123)
- Staining rack 113 is made from stainless steel and holds up to 30 slides; maximum slide size is 3 x 2 in. (76 x 51 mm)
- Staining dish 122 is made from non-autoclavable glass with inside dimensions of 4.3 x 3.6 x 2.6 in. (110 x 92 x 67 mm)
- Staining dish holds up to 350 mL of solution with a fully loaded staining rack
- Staining dish cover 123 is made from stainless steel



## Complete Staining Assembly 130

- Complete assembly 130 includes rack/handle (No. 120), dish (No. 131) and cover (No. 132)
- Staining rack 120 is made from stainless steel and holds up to 60 slides; maximum slide size is 3 x 2 in. (76 x 51 mm)
- Staining dish 131 is made from non-autoclavable glass with inside dimensions of 7.95 x 4.4 x 2.8 in. (202 x 112 x 72 mm)
- Staining dish holds up to 750 mL of solution with a fully loaded staining rack
- Staining dish cover 132 is made from stainless steel

Description	Order Number
<b>Complete Assembly 110</b>	<b>110</b>
Staining rack	113
Staining dish	112
Staining dish cover	111
<b>Complete Assembly 121</b>	<b>121</b>
Staining rack	113
Staining dish	122
Staining dish cover	123
<b>Complete Assembly 130</b>	<b>130</b>
Staining rack	120
Staining dish	131
Staining dish cover	132

## Epredia Staining Accessories



### Vertical Staining Rack

- Constructed of welded stainless steel for durability
- Holds 38 (76 x 26 mm) slides vertically
- Slides fit into individual slots to allow for free exchange and rapid drainage of staining reagents
- Measures 2.5 x 2.35 x 4.1 in. (64 x 60 x 105 mm)



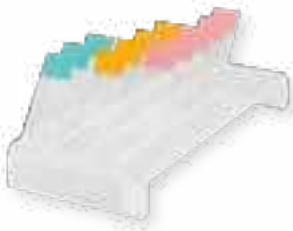
### Shandon Slide Holder

- Features individually stamped slots
- Holds ten (76 x 26 mm) slides vertically
- Can be used with the frozen staining kit glass beakers
- Not for use with Coplin jars or Shandon vertical staining jar (No. 140)



### Plastic Slide Grip

- Plastic slide grip is constructed of molded plastic that withstands chemicals used in staining, including special stains
- Hold five (76 x 26 mm) slides
- Can be used in temperatures to 80 °C
- Fits Coplin jars and round-mouthed staining jars



### Angus-Ranieri™ Slide Rack

- Holds up to forty 76 x 26 mm slides



## Coverglass Staining Racks

- Welded stainless steel racks securely hold 22 mm or 24 mm coverslips
- Available in two sizes
- Five-coverslip rack will fit in vertical staining jar 140 or glass beaker 146
- Thirty-coverslip rack includes a spring-type detachable handle and measures 4.0 x 1.1 x 1.2 in. (102 x 28 x 31 mm)



## Polyacetal Trough/Dish

- Polyacetal trough/dish features a molded black polyacetal trough with close-fitting lid
- Can be used with alcohol and xylene, but not phenol
- Capacity: 170 mL



## Graduated Stainless Steel Beakers

- Graduated stainless steel beakers feature inside graduated markings that show milliliters and fluid ounces
- Constructed of surgical grade stainless steel

Accessories	Order Number
Vertical staining rack	143
Shandon slide holder	147
Plastic slide grip	1975
Angus-Ranieri slide rack	
Coverglass staining rack (30 coverslips)	114
Coverglass staining rack (5 coverslips)	116
Polyacetal Trough/Dish	
Graduated stainless steel beaker (940 mL)	8532
Graduated stainless steel beaker (470 mL)	8516



## Staining Jars



### Coplin Staining Jar

- A heavy, clear glass jar with internal grooves
- Holds ten slides (76 x 26 mm) back-to-back
- Includes a glass drop-on lid or a plastic screw-on lid



### Plastic Coplin Staining Jar

- A microwavable, high-density polyethylene jar with internal grooves
- Holds ten slides back-to-back
- For general purpose use
- 40 mm diameter; circular, tapered top
- Includes domed, screw-on cap

### Columbia Jar

- A glass jar to accept 22 x 22 mm coverslips
- Low volume requirement (8 mL) makes this suitable for use with costly reagents
- Supplied with plastic screw-on cap



### Spill-Free Jar

- Holds ten slides, one per slot
- 1.4 x 1 in. (36 x 26 mm) rectangular top with straight body
- Polypropylene construction with internal grooves
- Integral snap-lock lid with reagent-proof lid seal
- Microwavable

Description	Qty.	Order Number
<b>Coplin Staining Jar</b>		
Drop-on lid	ea.	E94
Screw-on lid	ea.	107
<b>Plastic Coplin Staining Jar</b>		
Plastic Coplin staining jar	ea.	194
<b>Columbia Jar</b>		
Columbia jar (fits 4 coverslips, 8 back-to-back)	ea.	E93
<b>Plastic Spill-Free Slide Jar</b>		
Plastic spill-free slide jar	ea.	1001362
Plastic spill-free slide jar	12 / pk.	1001363
Plastic spill-free slide jar	48 / case	1001361

## Richard–Allan Scientific Signature Stains

### Richard-Allan Scientific Hematoxylin 7211

Richard-Allan Scientific Signature Series Hematoxylin 7211 is a uniquely formulated product that yields results which exceed that of Gill or Harris Hematoxylin.

- No affinity for acid mucopolysaccharide (mucin) staining
- Crisp slides with clear, well-defined nuclear chromatin delineation

### Richard-Allan Scientific Hematoxylin 7212

Richard-Allan Scientific Signature Series 7212 offers a unique formula consisting of a new generation dye-lake complex.

- Rapid, progressive stain requires no filtration prior to use
- Contains no mercuric oxide
- Little affinity for mucin staining
- Results in clear, crisp nuclear stain with a deeper, more robust intensity

### Richard-Allan Scientific Hematoxylin 1

Richard-Allan Scientific Signature Series Hematoxylin 1 produces staining intensities similar to Gill™ 1, 2 and 3 Hematoxylin, based on timing.

- Differentiation is not necessary, however, Clarifier 1 should be used to eliminate any background staining caused by use of excessive water bath adhesive
- Rapid stain requires no filtration prior to use
- Will not form crystals upon standing or exposure to cold weather

### Richard-Allan Scientific Hematoxylin 2

Richard-Allan Scientific Signature Series Hematoxylin 2 produces staining intensity similar to Harris Hematoxylin.

- Unlike many comparable products, Hematoxylin 2 does not contain mercuric oxide and will not form a metallic sheen over its surface each day
- Differentiation is not necessary, however, Clarifier 2 should be used to eliminate any background staining caused by the use of excessive water bath adhesive
- Recommended for frozen sections
- Requires no filtration prior to use
- Will not form crystals upon standing or exposure to cold weather

## Richard-Allan Scientific Eosin-Y

Richard-Allan Scientific Signature Series Eosin-Y is a fast-acting, alcoholic counterstain that provides excellent delineation of cytoplasmic components.

- Color contrast between the nuclei and cytoplasm is unmatched
- Various shades of red and pink differentiate muscle, red blood cells, and connective tissue
- Strict quality assurance guarantees product consistency and longevity
- Quantitative testing eliminates the need for adjustments in dilution or time

## Richard-Allan Scientific Bluing Reagent

Richard-Allan Scientific Signature Series Bluing Reagent is premixed and ready-to-use.

- Buffered to ensure proper alkalinity (pH = 8.0)
- Requires only a one minute rinse in water versus conventional bluing agents which require up to five minutes of rinsing
- Ensures crisp nuclear detail

## Richard-Allan Scientific Clarifier 1, 2

Richard-Allan Scientific Signature Series Clarifier 1 and 2 are unique acetic acid formulations designed to remove background stain caused by excessive use of tissue adhesive and to increase cell transparency.

- Both Clarifier 1 and 2 selectively remove hematoxylin staining from excess adhesive without affecting nuclear staining
- Use of Clarifier 1 or 2 improves contrast between nuclei and cytoplasm

Description	Qty.	Order Number	Description	Qty.	Order Number
<b>Richard-Allan Scientific Hematoxylin 7211</b>			<b>Richard-Allan Scientific Bluing Reagent</b>		
1 pt (0.47 L)	4 / case	7211	1 gal (3.8 L)	ea.	7301
1.32 gal (5 L)	ea.	7211L	1 gal (3.8 L)	4 / case	7341
<b>Richard-Allan Scientific Hematoxylin 7212</b>			1.32 gal (5 L)	ea.	7301L
1 pt (0.4 L)	4 / case	7212	<b>Richard Allan Scientific Clarifier 1, 2</b>		
1.32 gal (5 L)	ea.	7212L	Clarifier 1		
<b>Richard-Allan Scientific Hematoxylin 1</b>			1 gal (3.8 L)	ea.	7401
1 pt (0.47 L)	4 / case	7221	1 gal (3.8 L)	4 / case	7441
1.32 gal (5 L)	ea.	7221L	Clarifier 2		
<b>Richard-Allan Scientific Hematoxylin 2</b>			1 gal (3.8 L)	ea.	7402
1 pt (0.47 L)	4 / case	7231	1 gal (3.8 L)	4 / case	7442
<b>Richard-Allan Scientific Eosin-Y</b>			1.32 gal (5 L)	ea.	7402L
1 pt (0.47 L)	4 / case	7111			
1.32 gal (5 L)	ea.	7111L			



## Richard–Allan Scientific Standard Stains

### **Richard-Allan Scientific Gill 1, 2, 3 Hematoxylin**

Richard-Allan Scientific™ Gill™ Hematoxylin are progressive nuclear stains. Three strengths are available, allowing the user complete control of staining intensities.

- Gill 1 is recommended for use in cytology
- Gill 2 has applications in histology and cytology
- Gill 3 is used in histology
- All are premixed and ready to use

### **Richard-Allan Scientific Modified Harris Hematoxylin**

Richard-Allan Scientific Modified Harris Hematoxylin is a regressive nuclear stain.

- Formulation contains no mercury and is more stable than conventional Harris Hematoxylin
- Can be used in both histology and cytology
- Should be filtered prior to use

### **Richard-Allan Scientific Modified Mayer's Hematoxylin**

Richard-Allan Scientific Modified Mayer's Hematoxylin is a progressive nuclear stain. It is difficult to over stain sections with this product, yet very crisp nuclear staining is achieved.

- A good choice as a counterstain in immunoperoxidase and special stain procedures
- Requires no acid rinse and does not stain mucin
- Recommended for use when less intense results are desired

### **Richard-Allan Scientific Differentiating Solution**

Richard-Allan Scientific Differentiating Solution is a standard formulation of hydrochloric acid in denatured alcohol.

- Reproducible batch results allow for consistent staining in regressive procedures
- Solution provides clear differentiation and contrast between the hematoxylin and eosin

## Richard-Allan Scientific Eosin-Y Alcoholic, Eosin-Y with Phloxine, Eosin-Y Saturated

Richard-Allan Scientific Eosin-Y Alcoholic, Eosin-Y with Phloxine, and Eosin-Y Saturated were developed to satisfy a wide range of customer needs.

- Strict quality control of raw materials and finished product ensures the highest product quality every time
- Eosin-Y Alcoholic produces three distinct color variations enhancing differentiation between muscle, red blood cells and connective tissue
- Eosin-Y with Phloxine yields a brighter reddish hue and a more dramatic differentiation of cytoplasmic color than Eosin-Y Alcoholic
- Eosin-Y Saturated is very intense and rapid counterstain that can be used to make working solutions of Eosin-Y

## Powdered Stains

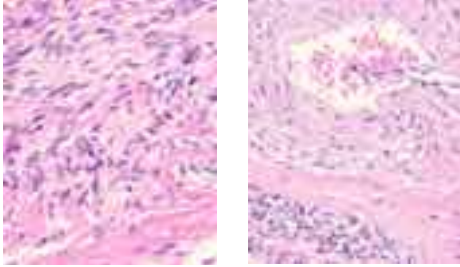
Certified by the Biological Stain Commission

Description	Qty.	Order Number
<b>Richard-Allan Scientific Gill 1, 2, 3 Hematoxylin</b>		
Gill 1 Hematoxylin		
1 pt (0.47 L)	4 / case	72404
1 gal (3.8 L)	ea.	72411
Gill 2 Hematoxylin		
1 pt (0.47 L)	4 / case	72504
1 gal (3.8 L)	ea.	72511
Gill 3 Hematoxylin		
1 pt (0.47 L)	4 / case	72604
1 gal (3.8 L)	ea.	72611
<b>Richard-Allan Scientific Modified Harris Hematoxylin</b>		
1 gal (3.8 L)	ea.	72704
1 gal (3.8 L)	4 / case	72711
<b>Richard-Allan Scientific Modified Mayer's Hematoxylin</b>		
1 pt. (0.47 L)	4 / case	72804
<b>Richard-Allan Scientific Differentiating Solution</b>		
1 pt (0.47 L)	4 / case	74204
1 gal (3.8 L)	ea.	74211
<b>Richard-Allan Scientific Eosin-Y Alcoholic</b>		
1 pt (0.47 L)	4 / case	71204
1 gal (3.8 L)	ea.	71211
2.5 gal (9.46 L) cubitainer	ea.	71225

Description	Qty.	Order Number
<b>Richard-Allan Scientific Eosin-Y with Phloxine</b>		
1 pt (0.47 L)	4 / case	71304
1 gal (3.8 L)	ea.	71311
<b>Richard-Allan Scientific Eosin-Y Saturated</b>		
1 pt (0.47 L)	4 / case	71304
<b>Richard-Allan Scientific Dry Powder Stains</b>		
Eosin-Y 100 g	ea.	90017
Hematoxylin 25 g	ea.	90022



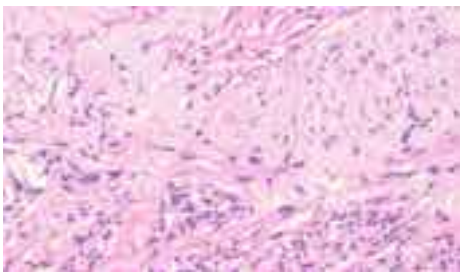
## Shandon Staining Reagents



### Shandon Harris Hematoxylin

Shandon Harris Hematoxylin has no mucoid staining.

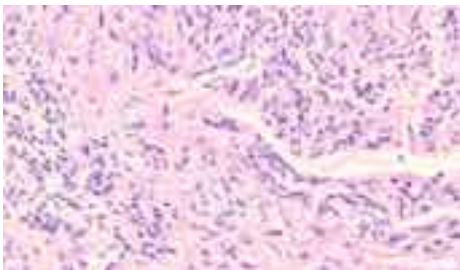
- Available both acidified or non-acidified
- Mercury-free
- Intensely stained, blue black nuclei



### Shandon Instant Hematoxylin

Shandon Instant Hematoxylin has no mucoid staining.

- May be used as a substitute for Harris or Gill
- Stains from blue-black to light blue depending upon preparation
- Part A and Part B are reconstituted to make one liter of hematoxylin



### Shandon Gill Hematoxylin 1, 2, 3

Shandon™ Gill™ Hematoxylin has mucoid staining.

- Gill 1: Light blue nuclei
- Gill 2: Medium blue nuclei
- Gill 3: Blue-black nuclei

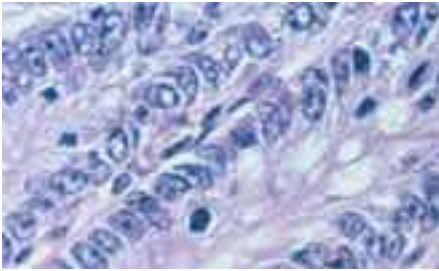


### Shandon Bluing Reagent

Shandon Bluing Reagent blues hematoxylin stained nuclei.

- Gentle, with no loss or lifting of material from slides (typically associated with ammonia water use)
- Thoroughly pH-controlled for completely effective bluing
- Ready-to-use





## Shandon Nu-Clear

Shandon™ Nu-Clear™ reagent is a specially formulated acid alcohol solution. Acid alcohol enhances staining by removing excess Hematoxylin from the slide, resulting in improved cellular clarity. Will also remove the residual Hematoxylin staining the glass.

- Designed to be used with the full line of Epredia automatic stainers as well as manual methods.

## Nu-Clear I

- Fast-acting solution
- Recommended for use as a 10-second step in most protocols
- Particularly beneficial for use with Harris Hematoxylin
- May be used on the Epredia Gemini AS Slide Stainer

## Nu-Clear II

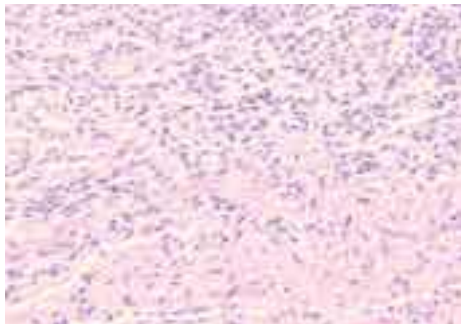
- Less concentrated
- Recommended as a 20-second step
- May be used on the Epredia Linistat stainer and other linear stainers
- Recommended for use with Gill Hematoxylin

## Shandon Eosin-Y

Shandon Eosin-Y is a fast-acting cytoplasmic counterstain.

- Produces consistent results
- pH-adjusted for maximum stain uptake
- Produces brilliant staining
- Compatible with all alum Hematoxylin stains
- Available in alcoholic or aqueous formulations
- Ready-to-use





## Shandon Instant Eosin

Shandon Instant Eosin Produces consistent results.

- This instant Eosin is stable, precipitate-free and requires no filtering
- pH-adjusted for maximum stain uptake
- Produces brilliant staining
- Compatible with all alum Hematoxylin stains

Description	Qty.	Order Number
<b>Shandon Harris Hematoxylin Non-Acidified</b>		
0.26 gal (1 L)	2 / case	6765001
1.06 gal (4 L)	ea.	6765002
<b>Shandon Harris Hematoxylin Acidified</b>		
0.26 gal (1 L)	2 / case	6765003
1.06 gal (4 L)	ea.	6765004
<b>Shandon Instant Hematoxylin</b>		
Makes 6 L	6 / pack	6765015
<b>Shandon Gill Hematoxylin 1, 2, 3</b>		
Gill 1 Hematoxylin		
0.26 gal (1 L)	2 / case	6765005
1.06 gal (4 L)	ea.	6765006
Gill 2 Hematoxylin		
0.26 gal (1 L)	2 / case	6765007
1.06 gal (4 L)	ea.	6765008
Gill 3 Hematoxylin		
0.26 gal (1 L)	2 / case	6765009
<b>Shandon Bluing Reagent</b>		
0.26 gal (1 L)	2 / case	6769001
1.06 gal (4 L)	ea.	6769002
<b>Shandon Nu-Clear</b>		
Nu Clear I 1.06 gal (4 L)	ea.	6769008
Nu Clear II 1.06 gal (4 L)	ea.	6769009

Description	Qty.	Order Number
<b>Shandon Eosin-Y Alcoholic</b>		
0.26 gal (1 L)	2 / case	6766007
1.06 gal (4 L)	ea.	6766008
<b>Shandon Eosin-Y Aqueous</b>		
0.26 gal (1 L)	2 / case	6766009
1.06 gal (4 L)	ea.	6766010
<b>Shandon Instant Eosin Alcoholic</b>		
Makes 6 L	6 / pack	6765040
<b>Shandon Instant Eosin Aqueous</b>		
Makes 6 L	6 / pack	6765540

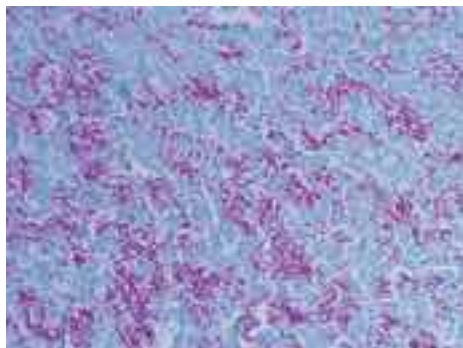


## Richard-Allan Scientific Chromaview Special Stain Kits

**Richard-Allan Scientific™ Chromaview™ Special Stains function together as a system to visualize specific cell entities**

Bring a systems-approach to special stains offering quality, consistency, ease of use and economy. Available as convenient, ready-to-use kits or as individual components. Each kit is designed to yield ten applications utilizing 50 mL coplin jars.



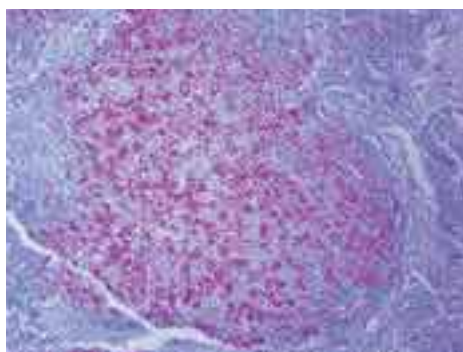


### Richard-Allan Scientific Acid-Fast Bacillus Stain (Green Secondary Stains)

Richard-Allan Scientific Acid Fast Bacillus (Green Secondary Stains) is used to identify the presence of acid-fast bacilli in tissue sections and to produce optimal staining while reducing precipitate.

- Acid-fast bacilli are stained bright red against a pale green background

Description	Size	Qty.	Order Number
Acid Fast Bacillus, Green Secondary stain kit	1 kit	ea.	87015
<b>Components</b>			
Carbol Fuschin solution	125 mL	ea.	88001
Fast Green Stain solution	500 mL	ea.	88003
Differentiating solution	500 mL	2 / case	88117

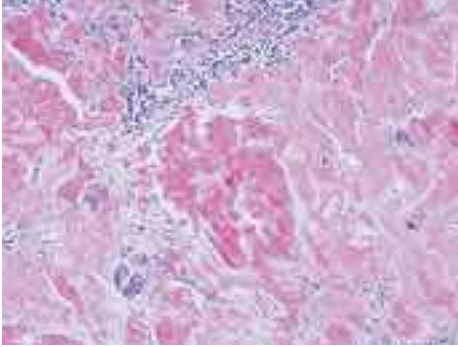


### Richard-Allan Scientific Acid-Fast Bacillus Stain (Blue Secondary Stains)

Richard-Allan Scientific Acid Fast Bacillus (Blue Secondary Stains) is used to identify the presence of acid-fast bacilli in tissue sections and to produce optimal staining while reducing precipitate.

- Acid-fast bacilli are stained bright red against a pale blue background

Description	Size	Qty.	Order Number
Acid Fast Bacillus, Blue Secondary stain kit	1 kit	ea.	87016
<b>Components</b>			
Loeffler Methylene Blue stain solution	250 mL	ea.	88002
Carbol Fuschin solution	125 mL	ea.	88001
Differentiating solution	500 mL	2 / case	88117

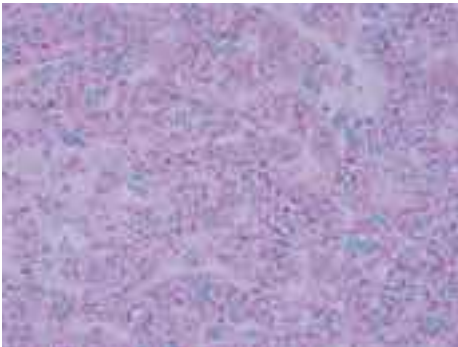


## Richard-Allan Scientific Amyloid Stain

Richard-Allan Scientific Amyloid Stain is for the demonstration of amyloid.

- Alkaline Congo Red solution will stain amyloid orange to red and display apple-green birefringence when examined with polarizing microscope

Description	Size	Qty.	Order Number
Amyloid stain kit	1 kit	ea.	87003
<b>Components</b>			
Sodium Hydroxide solution	8 mL	ea.	88004
Congo Red solution	500 mL	ea.	88005
Modifier Mayer's Hematoxylin	500 mL	2 / case	88006



## Richard-Allan Scientific Methyl Green-Pyronin Y

Richard-Allan Scientific Methyl Green-Pyronin Y Stain is effective in the identification of plasma cells and RNA in tissue sections and cytological preparations.

- DNA is stained green and RNA is stained red
- Concentrated MGP is diluted prior to use

Description	Size	Qty.	Order Number
Methyl Green-Pyronin Y	125 mL	ea.	87011

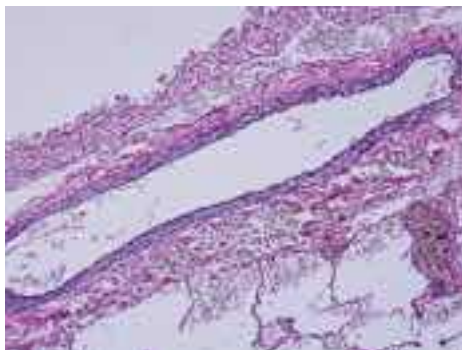


## Richard-Allan Scientific Iron Stain

Richard-Allan Scientific Iron Stain is used to detect presence of ferric iron (hemosiderin) in histological or hematological preparations.

- Useful in study of iron deficiency anemia, hemochromatosis and hemosiderosis
- Prussian Blue reaction
- Iron stains blue, nuclei pink-red and cytoplasm pale pink

Description	Size	Qty.	Order Number
Iron stain kit	1 kit	ea.	87006
<b>Components</b>			
Potassium Ferrocyanide solution	250 mL	ea.	88013
Hydrochloric acid solution (20%)	250 mL	ea.	88014
Nuclear Red Thiazin stain solution	125 mL	ea.	88015

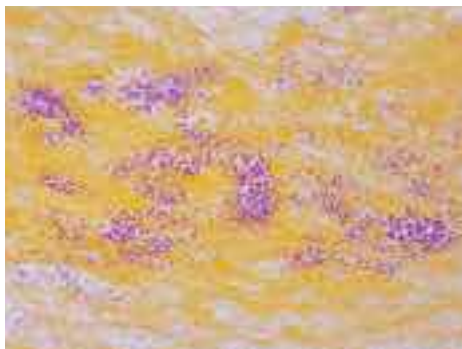


### Richard-Allan Scientific Elastic Stain

Richard-Allan Scientific Elastic Stain is based on the Verhoeff Elastic technique.

- Used to demonstrate the atrophy, thinning and loss of elastic tissue
- Also used for identifying the breaks, splitting and reduplication of elastic lamellae that occur in vascular diseases
- Elastic fibers are stained blue-black to black with red collagen and a yellow background

Description	Size	Qty.	Order Number
Elastic stain kit	1 kit	ea.	87017
<b>Components</b>			
Alcoholic Hematoxylin solution	250 mL	ea.	88007
Ferric Chloride solution	125 mL	ea.	88008
Weigert's Iodine solution	125 mL	ea.	88009
Sodium Thiosulfate solution	500 mL	ea.	88000
Van Gieson stain solution	250 mL	ea.	88011



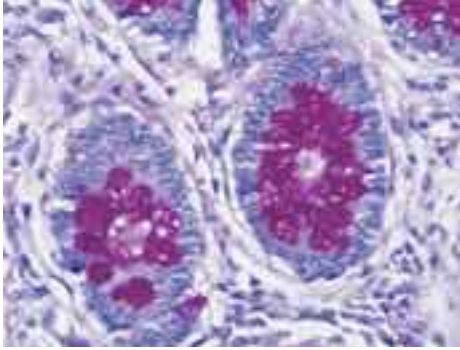
### Richard-Allan Scientific Gram Stain (Tissue)

Richard-Allan Scientific Gram Stain (Tissue) identifies Gram-positive and Gram-negative bacteria in tissue sections.

- Gram-positive organisms stain blue to blue-black
- Gram-negative organisms stain red
- Tartrazine provides a yellow background stain

Description	Size	Qty.	Order Number
Gram stain kit	1 kit	ea.	87018
<b>Components</b>			
Crystal Violet solution	500 mL	ea.	88101
Safranin O stain solution	500 mL	ea.	88103
Gram's Iodine	500 mL	ea.	88102
Tartrazine stain solution	500 mL	ea.	88012
Decolorizing solution	500 mL	ea.	88104



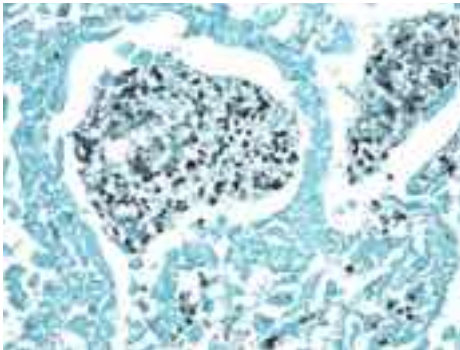


## Richard-Allan Scientific Periodic Acid-Schiff (PAS)

Richard-Allan Scientific Periodic Acid-Schiff (PAS) Solution is used to demonstrate the patterns and presence of specific carbohydrates.

- Glycogen, mucin and some basement membranes and fungal walls will stain rose to magenta
- Nuclei stain blue

Description	Size	Qty.	Order Number
PAS kit	1 kit	ea.	87007
<b>Components</b>			
Periodic Acid solution (0.5%)	500 mL	ea.	88016
Schiff reagent	500 mL	ea.	88017
Hematoxylin 1	500 mL	ea.	88018



## Richard-Allan Scientific Modified Grocott's Methenamine Silver (Chromic Acid)

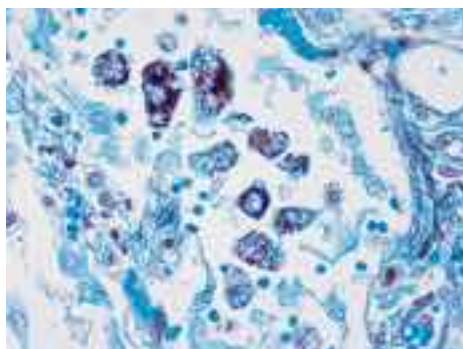
Richard-Allan Scientific Modified Grocott's Methenamine Silver (Chromic Acid) Kit is a uniquely modified silver stain formulation.

- Utilizes methenamine/borax capsules to make working silver solution
- Distinguishes fungi, basement membranes and opportunistic organisms in tissue sections
- Chromic acid solution will enhance detection of Pneumocystis carinii, histoplasmosis and fungus organisms; eliminates non-specific background staining
- Entities and reticular fibers stain black against a green background

Description	Size	Qty.	Order Number
Methenamine Silver (Chromic Acid) stain kit	1 kit	ea.	87024
<b>Components</b>			
Methenamine Borax capsules		12 ea.	88023
Fast Green stain solution	125 mL	ea.	88024
Sodium Thiosulfate solution	500 mL	ea.	88025
Sodium Metabisulfate solution	500 mL	ea.	88042
Gold Chloride solution	125 mL	ea.	88026
5% Chromic Acid solution	500 mL	ea.	88041
5% Silver Nitrate solution*	30 mL	ea.	88021

\*Not available for purchase in EMEA





## Richard-Allan Scientific Modified Grocott's Methenamine Silver (Periodic Acid)

Richard-Allan Scientific Modified Grocott's Methenamine Silver (Periodic Acid) is a uniquely modified silver stain formulation that utilizes methenamine/borax capsules to make working silver solution.

- Utilizes methenamine/borax capsules to make working silver solution
- Aids in distinguishing fungi, basement membranes and opportunistic organisms such as *Pneumocystis carinii* in tissue sections
- These entities, along with reticular fibers, are stained black

Description	Size	Qty.	Order Number
Methenamine Silver (Periodic Acid) stain kit	1 kit	ea.	87008
<b>Components</b>			
Methenamine Borax capsules		12 ea.	88023
Fast Green stain solution	125 mL	ea.	88024
Sodium Thiosulfate solution	500 mL	ea.	88025
Gold Chloride solution	125 mL	ea.	88026
1% Periodic Acid solution	125 mL	ea.	88027
5% Silver Nitrate solution	30 mL	ea.	88036

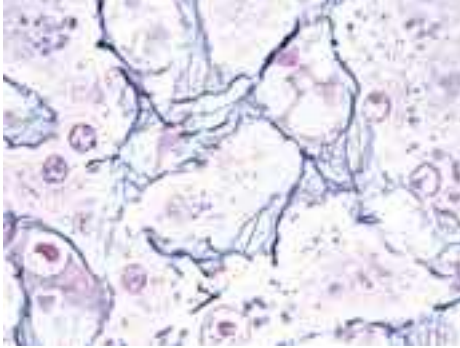


## Richard-Allan Scientific Alcian Blue/PAS

Richard-Allan Scientific Alcian Blue/PAS Special Stain Kit is used to demonstrate presence of both neutral and acidic mucosubstances.

- Can be used alone to stain acid mucins and other carboxylated and sulfated acid mucosubstances blue on tissue sections
- Periodic Acid Schiff (PAS) reaction is used to stain glycogen, basement membranes and neutral mucosubstances pink

Description	Size	Qty.	Order Number
Alcian Blue/PAS stain kit	1 kit	ea.	87023
<b>Components</b>			
Alcian Blue pH 2.5 stain solution	500 mL	ea.	88043
0.5% Periodic acid solution	500 mL	ea.	88016
Schiff reagent	500 mL	ea.	88017

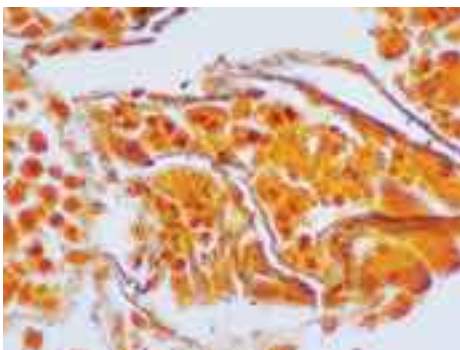


## Richard-Allan Scientific Reticulin Silver

Richard-Allan Scientific Reticulin Silver Stain is a Gordon and Sweet's modification that will identify and visualize reticular fibers in tissue sections.

- Working ammoniacal silver solution selectively impregnates and reacts with reticular fibers through multiple reactions, including oxidation and reduction
- Kernechtrot Nuclear Fast Red Stain Solution provides red background stain

Description	Size	Qty.	Order Number
Reticulin Silver stain kit	1 kit	ea.	87025
<b>Components</b>			
Oxalic Acid solution	125 mL	ea.	88045
Potassium Permanganate solution	125 mL	ea.	88046
Ferric Ammonium Sulfate solution	125 mL	ea.	88047
Reducing solution	500 mL	ea.	88048
Gold Chloride solution (0.1%)	125 mL	ea.	88026
Sodium Thiosulfate solution	125 mL	ea.	88025
Kernechtrot Nuclear Fast Red stain solution	125 mL	ea.	88049
10% Silver Nitrate solution	125 mL	ea.	88050
Ammonium Hydroxide solution	8 mL	ea.	88051
Sodium Hydroxide solution (3%)	125 mL	ea.	88052



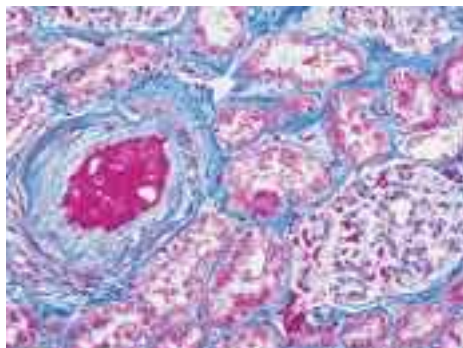
## Richard-Allan Scientific Steiner-Steiner Silver

Richard-Allan Scientific Steiner-Steiner Silver Stain determines spirochetes and non-filamentous bacteria.

- Bacteria (including spirochetes and Legionella pneumophila), Donovan bodies and fungi all stain black
- Background is stained yellow to brown
- Kit formulation and detailed procedures provide consistent and reproducible results; kit does not contain uranyl nitrate

Description	Size	Qty.	Order Number
Steiner-Steiner Silver stain kit	1 kit	ea.	87009
<b>Components</b>			
Silver Nitrate solution #2 (dropper)*	8 mL	ea.	88021
Silver Nitrate solution #1	500 mL	ea.	88033
Gum Mastic Solution	500 mL	ea.	88034
Hydroquinone (capsules)	6 / pack	2	88035
Sensitizer solution	500 mL	ea.	88054

\*Not available for purchase in EMEA

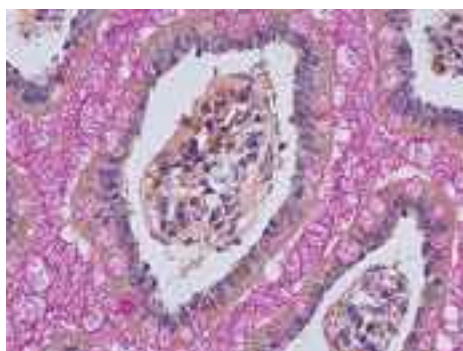


## Richard-Allan Scientific Masson Trichrome

Richard-Allan Scientific Masson Trichrome Kit aids in differentiating collagen and smooth muscle in tumors.

- Helps detect diseases of connective tissue and changes in muscle tissue
- Cytoplasm, keratin and muscle fibers are stained red, with collagen and mucin stained blue
- Nuclei are black

Description	Size	Qty.	Order Number
Masson Trichrome stain kit	1 kit	ea.	87019
<b>Components</b>			
Biebrich Scarlet Acid Fuchsin solution	250 mL	ea.	88019
Phosphotungstic-Phosphomolybdic Acid solution	250 mL	ea.	88020
Aniline Blue stain solution	250 mL	ea.	88022
Weigert's Iron Hematoxylin - part A	500 mL	ea.	88028
Weigert's Iron Hematoxylin - part B	500 mL	ea.	88029
Bouin's Fluid	500 mL	ea.	88038
1% Acetic Acid solution	500 mL	ea.	88039

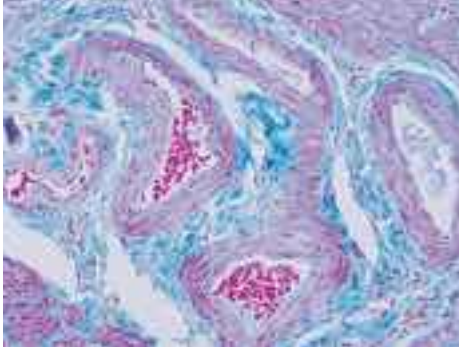


## Richard-Allan Scientific Mucicarmine

Richard-Allan Scientific Mucicarmine Stain is useful in the identification of primary tumor sites.

- Aids in distinguishing mucin-negative undifferentiated squamous cell lesions from mucin-positive adenocarcinomas
- Mucin is stained dark rose and the nuclei are black
- Capsule of Cryptococcus (fungus) is stained deep rose
- Tartrazine solution is used as a yellow cytoplasmic stain

Description	Size	Qty.	Order Number
Mucicarmine stain kit	1 kit	ea.	87012
<b>Components</b>			
Tartrazine stain solution	500 mL	ea.	88012
Weigert's Iron Hematoxylin part A	500 mL	ea.	88028
Weigert's Iron Hematoxylin part B	500 mL	ea.	88029
Mucicarmine Stock solution	500 mL	ea.	88037

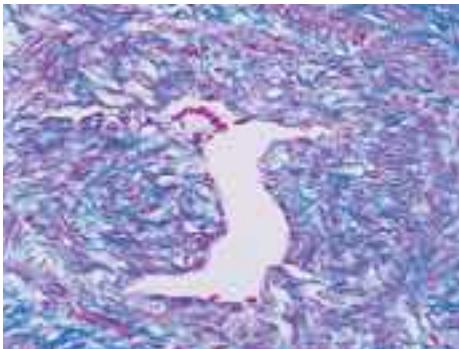


## Richard-Allan Scientific Gomori's Trichrome (Green Collagen)

Richard-Allan Scientific Gomori's Trichrome (Green Collagen) is a one-step trichrome stain that provides distinctive red muscle fibers with green collagen staining.

- Used to study the diseases of connective tissue and muscle associated with fibrotic and dystrophic changes

Description	Size	Qty.	Order Number
Gomori's Trichrome (Green Collagen) stain kit	1 kit	ea.	87021
<b>Components</b>			
Weigert's Iron Hematoxylin part A	500 mL	ea.	88028
Weigert's Iron Hematoxylin part B	500 mL	ea.	88029
Gomori's Trichrome stain solution, Green Collagen	500 mL	ea.	88031
Bouin's Fluid	500 mL	ea.	88038
1% Acetic Acid solution	500 mL	ea.	88039



## Richard-Allan Gomori's Trichrome (Blue Collagen)

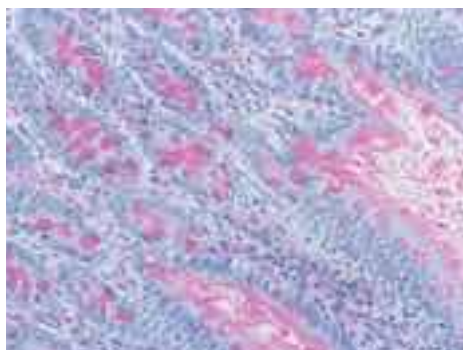
Richard-Allan Scientific Gomori's Trichrome (Blue Collagen) is a one-step trichrome stain that achieves color differentiation similar to the Masson Trichrome with a simple, time-saving procedure.

- Used to study the diseases of connective tissue and muscle associated with fibrotic and dystrophic changes
- Collagen is stained blue, cytoplasm and muscle fibers red and the nuclei blue to black

Description	Size	Qty.	Order Number
Gomori's Trichrome (Blue Collagen) stain kit	1 kit	ea.	87020
<b>Components</b>			
Weigert's Iron Hematoxylin part A	500 mL	ea.	88028
Weigert's Iron Hematoxylin part B	500 mL	ea.	88029
Gomori's Trichrome stain solution, Blue Collagen	500 mL	ea.	88038
Bouin's Fluid	500 mL	ea.	88038
1% Acetic Acid solution	500 mL	ea.	88039

### Richard-Allan Scientific Solutions

Description	Size	Qty.	Order Number
Carbol Fuschin-Kinyoun solution (cold technique)	500 mL	ea.	88106
Carbol Fuschin-Kinyoun solution (heat technique)	500 mL	ea.	88107
Carbol Fuschin-Ziehl-Neelsen solution	1 L	ea.	88108
Lugol's Iodine solution (concentrate)	500 mL	ea.	88114



### Shandon Periodic Acid Schiff Kit (PAS)

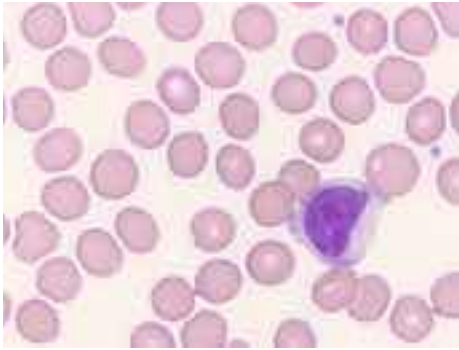
Shandon Periodic Acid Schiff (PAS) is for the demonstration of polysaccharides, neutral mucosubstances and basement membranes.

- Kit components include: 0.5% Periodic acid, Schiff reagent, Potassium metabisulfate, Acidified Harris hematoxylin, Potassium phosphate buffer, Diatase powder

Description	Size	Qty.	Order Number
Periodic Acid Schiff kit	250 mL	ea.	B24200-250



## Richard-Allan Scientific Hematology Stains

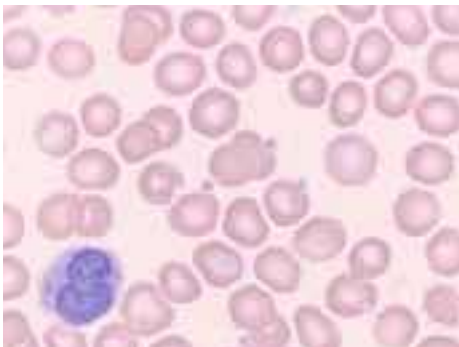


### Richard-Allan Scientific Wright Stain

Richard-Allan Scientific Wright Stain is a dual-use stain for peripheral blood and bone marrow smears.

- Produces results similar to those of the Giemsa stain with a slightly greater contrast

Description	Qty.	Order Number
1 gal (3.8 L)	ea.	89010
2.5 gal cubitainer	ea.	89011
0.95 L	ea.	89012

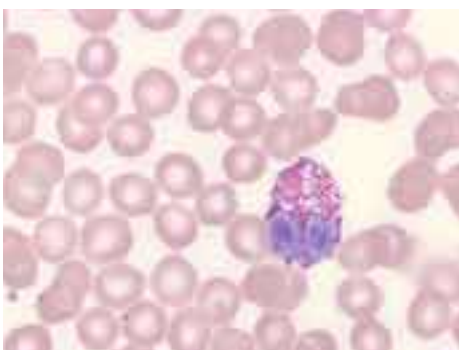


### Richard-Allan Scientific Buffered Wright Stain

Richard-Allan Scientific Buffered Wright Stain is a single solution stain containing fixative, buffer and stain for rapid and convenient staining of blood smears.

- Packaged in a 32 oz (0.95 L) bottle for ease of use; suitable for use on automated systems

Description	Qty.	Order Number
32 oz (0.95 L) bottle	ea.	3111

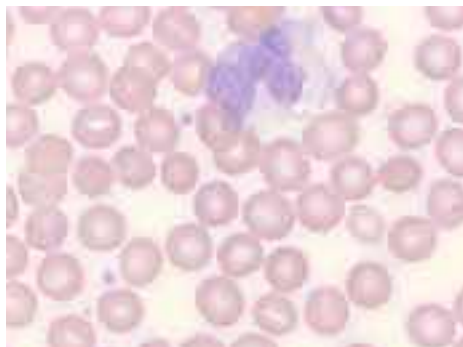


### Richard-Allan Scientific Wright-Giemsa Stain

Richard-Allan Scientific Wright-Giemsa Stain is a dual-use stain for peripheral blood and bone marrow smears.

- Produces somewhat darker results compared with Giemsa, particularly in the blue to magenta shades

Description	Qty.	Order Number
32 oz (0.95 L) bottle	ea.	89013
1 gal (3.8 L) cubitainer	ea.	89014
2.5 gal (9.48 L) cube	ea.	89017

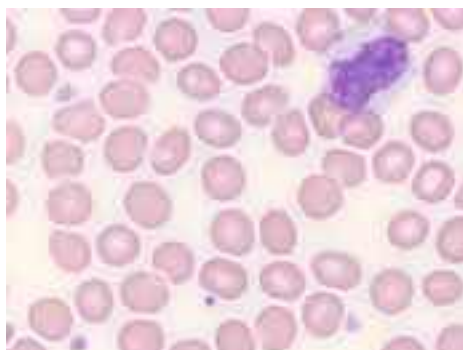


## Richard-Allan Scientific Buffered Wright-Giemsa Stain

Richard-Allan Scientific Buffered Wright-Giemsa Stain is a single solution stain containing the fixative, buffer and stain for rapid and convenient staining of blood smears.

- Suitable for use on automated systems

Description	Qty.	Order Number
32 oz (0.95 L) bottle	12 / case	3121



## Richard-Allan Scientific May-Grunwald Stain

Richard-Allan Scientific™ May-Grunwald Stain is a classical hematology stain.

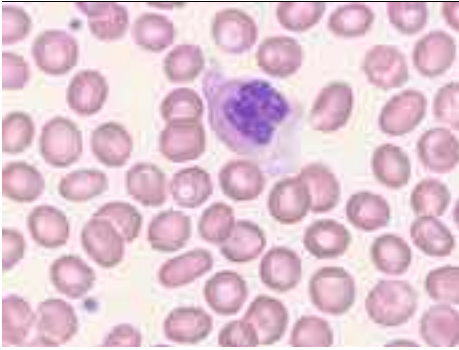
Description	Qty.	Order Number
32 oz (0.95 L) bottle	ea.	89027

## Richard-Allan Scientific Reticulocyte Stain

Richard-Allan Scientific Reticulocyte Stain is a specialized hematology stain for identifying immature erythrocytes.

- Immature erythrocytes stain blue in a fine mesh network within the erythrocyte; mature erythrocytes do not stain

Description	Qty.	Order Number
125 mL bottle	ea.	89029

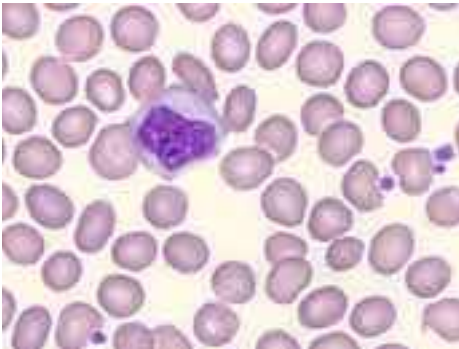


## Richard-Allan Scientific Jenner Stain

Richard-Allan Scientific Jenner Stain is used for staining of peripheral blood smears.

- One of the oldest stain formulations still in use today
- Provides results similar to that of Giemsa stain
- Eosinophilic granules tend to appear brighter red, basophilic granules and nuclear chromatin stain a dense blue

Description	Qty.	Order Number
32 oz (0.95 L) bottle	ea.	89030



## Richard-Allan Scientific Three-Step Stain

Richard-Allan Scientific Three-Step Stain Set provides results equal to Wright-Giemsa.

- Stain can be used to detect H. Pylori
- Set contains three 500 mL bottles consisting of Fixative
- Package insert provides easy-to-follow instructions
- Components are also available in 1 gallon (3.8 L) containers to facilitate use on automated stainers

Description	Size	Qty.	Order Number
Three-Step stain set	3 x 500 mL	ea.	3300
<b>Components</b>			
Three-Step fixative	1 gal (3.8 L)	ea.	3303
Three-Step solution A	1 gal (3.8 L)	ea.	3313
Three-Step solution B	1 gal (3.8 L)	ea.	3323



### Richard-Allan Scientific Phosphate Buffer (6.6, 7.2)

Richard-Allan Scientific Phosphate buffers for use with Giemsa, Wright and Wright-Giemsa stains.

- Each single-use bottle yields 0.26 gallon (1 Liter)

Description	Qty.	Order Number
Phosphate Buffer pH 6.6 (powder) 9.25 g	12/case	89032
Phosphate Buffer pH 7.2 (powder) 9.25 g	12/case	89033

### Richard-Allan Scientific Modified Wright and Wright-Giemsa Hematology Stain Packs

Richard-Allan Scientific Modified Wright and Wright-Giemsa Stain Packs are manufactured to fit Hema-Tek™ 1, 1000 and 2000 slide stainers.

- Each pack comes in a convenient sleeve and contains a buffer, rinse and stain

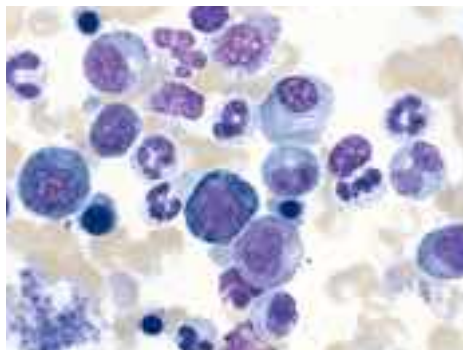


Description	Qty.	Order Number
Modified Wright stain pack	5 / pk	3000
Modified Wright-Giemsa stain pack	5 / pk	3005
<b>Stain Pack Accessories</b>		
Pump tube set (3 / pk)	8 / case	3010
Cannula set (3 / pk)	16 / case	3011
Under platen tubing (3 / pk)	8 / case	3012

### Dry Powder Stains

Certified by the Biological Stain Commission.

Description	Qty.	Order Number
Wright stain 100 g	ea	90049



## Shandon Kwik-Diff Stains

Shandon™ Kwik-Diff™ Stains are a quick alternative to traditional Wright's and Giemsa Staining procedures.

- Fast three-step differential stain for bone marrows, smears, FNAs and microorganisms such as *Helicobacter pylori*
- Kit components include: Reagent 1, Fixative; Reagent 2, Eosin; Reagent 3, Methylene Blue
- Available in kit form or as individual components

Description	Size	Order Number
Kwik-Diff stain kit	480 mL	9990700
Kwik-Diff stain kit	120 mL	9990701
<b>Components</b>		
Kwik-Diff Reagent 1, Fixative	1.06 gal (4 L)	9990705
Kwik-Diff Reagent 2, Eosin	1.06 gal (4 L)	9990706
Kwik-Diff Reagent 3, Methylene Blue	1.06 gal (4 L)	9990707

## Microbiology Stains and Reagents



### Richard-Allan Scientific Gram Stain Kit (Film)

Richard-Allan Scientific Gram Stain Kit (Film) provides qualitative differential staining of bacteria from cultures and patient specimens using a modified Hucker Gram stain method.

- Gram-positive microorganisms are stained purple and the Gram-negative bacteria stain pink to red

Description	Size	Qty.	Order Number
Gram stain kit (film)	1 kit	ea.	87101
<b>Components</b>			
Crystal Violet solution	500 mL	ea.	88101
Gram's Iodine solution	500 mL	ea.	88102
Safranin O stain solution	500 mL	ea.	88103
Decolorizing solution	500 mL	ea.	88104
Sodium Bicarbonate solution	8 mL	ea.	88116

### Richard-Allan Scientific Microbiology Reagent

Description	Size	Qty.	Order Number
Decolorizing solution	500 mL	ea.	88104

## Shandon Gram Stain

Shandon Gram stain can be used as routine bacteriologic stain on fixed smears and histological slides.

- Based upon the popular Hucker modification
- Demonstrates the presence of microorganisms such as bacteria and differentiates between Gram-positive and Gram-negative bacteria
- Safranin O provided as a counterstain
- Available in kit form or as individual components
- Kit components include: Crystal Violet Stain, Gram's Iodine (stabilized),

Description	Size	Order Number
Gram stain kit	125 mL	9990721
Gram Crystal Violet stain	1.06 gal (4 L)	9990725

## Shandon Portable Staining Kits



### Shandon Rapid-Chrome Papanicolaou Staining Kit

Shandon™ Rapid-Chrome™ Papanicolaou Staining Kit is excellent for rapid results of fine needle aspirations or high-risk specimens.

- Contains a five-slide holder and a portable tray
- Kit components include: Gill 2 Hematoxylin, bluing reagent, EA-50, 100% alcohol, OG-6, 95% alcohol, xylene and mounting medium, and one five-slide staining grip
- Packaged in 120 mL glass jars with screw top lids. 60ml reagent fill level
- 9 x 25 x 3.75 in. (22.8 x 63.5 x 9.5 cm)



### Shandon Rapid-Chrome H&E Frozen Section Staining Kit

Shandon Rapid-Chrome H&E Frozen Section Staining Kit produces permanently stained slides. It includes Rapid-Fixx™, an economical, alcohol-based formalin ideal for fixing slides from frozen sections.

- Kit components include: Rapid-Fixx fixative, deionized water, Eosin-Y, xylene, Gill 3 Hematoxylin, bluing reagent, 100% alcohol and mounting medium, and five slide staining grips
- Packaged in 120 mL glass jars with screw top lids, 60 mL reagent fill level
- 9 x 18 x 4.75 in. (22.8 x 45.7 x 12 cm)



### Shandon Rapid-Chrome Kwik-Diff Staining Kit

Shandon™ Rapid-Chrome Kwik-Diff™ Staining Kit is specially configured for performing quick, high-quality differential stains.

- Ideal for FNA carts
- Packaged in 120 mL glass jars with screw top lids, 60 mL reagent fill level
- Kit components include: Fixative, Methylene Blue, Eosin, spill-free slide jar, one plastic slide grip, Superfrost slides, 24 x 50, No. 1 Coverslip, resin mount mountant, and one cardboard slide folder
- 9 x 18 x 4.75 in. (22.8 x 45.7 x 12 cm)

Description	Qty.	Order Number
Papanicolaou stain kit	ea	9990020
H&E frozen section stain kit	ea.	9990001
Kwik-Diff staining kit	ea.	9990702

# Coverslipping

freedom  
through  
innovation



## Experience intuitive efficiency with two innovative systems

Coverslipping can be a tedious task in your laboratory. EpreDia offers two options for any laboratory, the ClearVue coverslipper with automated coverslipping technologies, and the CTM6 that has the power to coverslip hundreds of slides per hour.

### Walk-away Technology

- Place your stained slides in the ClearVue coverslipper and the system will automatically analyze the slide and tissue, selecting the optimum mountant volume and coverslip

### Get it Done Faster

- EpreDia coverslipper have the power to coverslip hundreds of slides per hour, saving time and allowing you to focus on other tasks in your laboratory

### Safety

- Internal vapor extraction systems prevent leakage of harmful fumes, protecting your staff
- Tool-free cleaning and maintenance making cleaning quick and easy

### The Total Solution

- EpreDia coverslips and mountants are designed for optimized use with your EpreDia coverslipper
- Get peace of mind with EpreDia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime





## ClearVue Coverslipper

Simply place a basket of slides onto the load rail and close the door – the ClearVue™ coverslipper does the rest. Delivering speed and accuracy to complete the coverslipping workload for the busiest of laboratories, the ClearVue coverslipper accepts pre-loaded coverslip hoppers to deliver a clean, single coverslip consistently every time.

### Compatibility

- Offers compatibility with a variety of stainers to accommodate almost any lab setting
- Accepts slide baskets directly from the:
  - Gemini slide stainer, Varistain™ 24-4, and Slide Basket Transfer System
  - Sakura DRS™ 2000
  - Leica™ Auto-Stainer™
- Slide baskets from any of these stainers can be loaded onto the ClearVue coverslipper in a mix or match fashion without making adjustments

### Specimen Recognition

- Handles both histology and cytology samples simultaneously without user interaction while delivering user definable amount of mountant for each sample type

### Load-on-Demand

- Load-on-demand capabilities can manage up to eleven slide baskets at the same time
- Load baskets one at a time or up to five baskets together

### Optical Recognition

- Features unique ability to optically recognize and position slides during the coverslipping process
- Recognizes the position of each slide in a basket, removes each slide with a set of slide grippers and returns every slide while maintaining slide positioning

### User Interface

- Intuitive user interface features a touch screen panel
- Software monitors the type of slide preparation, size and number of slips dispensed, and the number of baskets waiting to be coverslipped

### Physical Specifications

Dimensions (D x W x H):  
22.6 x 25.4 x 19.7 in.  
(57.4 x 64.5 x 50 cm)

Weight:  
106 lbs / 48 kg

Power requirements:  
100-240 V; 50/60 Hz

### Includes

Operator guide (English), operator guide CD (multi-lingual), case of two ClearVue coverslip hoppers; 24 x 40 mm, no.1.5 (1000 slips), set of three ClearVue slide baskets (Gemini-compatible) with black sliders, set of two mountant purge trays, ventilation filter, set of two soft hair brushes, set of three suction cups.



## Safety Features

- System will not operate when any door is open, protecting the user
- Downdraft ventilation protects the user when loading and unloading slide baskets
- Charcoal filter removes any vapors before they can escape the unit
- Removable debris and purge trays make clean up quick and easy
- Battery backup ensures completion of any basket in process during power cut
- No need to handle and stack large quantities of coverslips

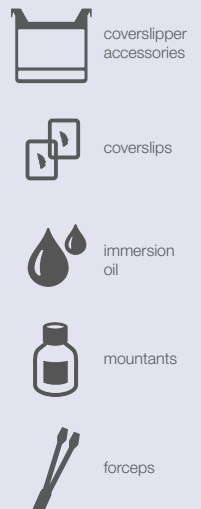
Description	Order Number
ClearVue coverslipper	A79200001

Accessories	Order Number
Shallow tray for loading baskets	A79210092
Drying stand for five baskets	A79210056
Single Charcoal Filter	9990610
Extraction ventilation kit	A79210080
Soft hair brush	P112257
Suction cups (3 / pk)	A79210081
Charcoal filter (6 / pk)	7411258

Did you know that Epredia offers a combined staining and coverslipping solution?

Checkout the [Slide Basket Transfer System](#), compatible with the ClearVue coverslipper and Gemini AS slide stainer

## You'll need:





## CTM6 Coverslipper

### Efficiency for Time Savings

- Coverslip hundreds of slides per hour with a self-cleaning dispensing needle
- Quick and easy change of different sizes and styles of coverslips for versatility with different slides and tissue types

### User Safety

- load and unload rack without opening the hood
- Internal vapor extraction system with fan and permanent air-flow avoids any leakage of vapors at openings
- Integrated charcoal filtration
- Tool-free cleaning and maintenance

### Compact Form Factor

- Designed to fit almost any lab space and under a 30 in. or larger hood

Description	Order Number
CTM6 coverslipper	97010

Accessories	Order Number
Slide Basket (30)	AP17808
Slide Basket (19)	AP17809
Xylene container assembly	A83410021

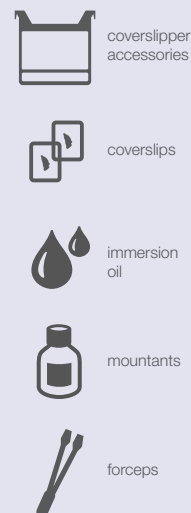
### Physical Specifications

Dimensions (D x W x H):  
17.7 x 18.1 x 14 in.  
(45 x 46 x 35.5 cm)

Weight:  
44.1 lbs / 20 kg

Power requirements:  
100-240 V; 50/60 Hz

### You'll need:





## Slide Basket Transfer System

The Slide Basket Transfer System (SBTS) eliminates the need to manually transfer slide baskets from the Gemini AS slide stainer to the ClearVue coverslipper

- Free up your team's time with automatic transfer from the Gemini AS slide stainer to the ClearVue coverslipper
- Simply place slides in the Gemini AS slide stainer and carry on with other tasks without distraction
- The system will alert you when the slides have finished coverslipping in the ClearVue coverslipper
- With a small footprint, the combined system of the Gemini AS slide stainer, Slide Basket Transfer System, and ClearVue coverslipper seamlessly fits into virtually any laboratory workflow
- Compatible with the Gemini AS and ClearVue systems made after February 2018 only

Description	Order Number
Slide Basket Transfer System	A84500001

Accessories	Order Number
SBTS baskets (5) black	A84510032
SBTS baskets (5) white	A84510041
Operator guide	A84510100
Documentation CD	A84510100-CD
Xylene tray	A84530101
Manual unload tool	A84530110
Wash bottle	AP18730

### Physical Specifications

Dimensions (D x W x H):  
53 x 35 x 43 cm

Weight:  
44 lbs, 20 kg

Power requirements:  
100-240 Vac, 50/60 Hz, 600 VA

## Coverslipper Accessories



### ClearVue Coverslip Hoppers

- For effortless integration into your laboratory
- Preloaded with 500 or 575 slips each
- No manual handling of glass
- A clean coverslip dispensed each and every time for superior reliability

Description	Qty.	Order Number
<b>Clearvue Coverslip Hoppers, 0.13 - 0.17 mm thick</b>		
24 x 40 mm #1	575 / hopper, 2 hoppers / case	A79210165
24 x 50 mm #1	575 / hopper, 2 hoppers / case	A79210166
<b>Clearvue Coverslip Hoppers, 0.16 to 0.19 mm thick</b>		
24 x 40 mm #1.5	500 / hopper, 2 hoppers / case	A79210050
24 x 50 mm #1.5	500 / hopper, 2 hoppers / case	A79210051
24 x 55 mm #1.5	500 / hopper, 2 hoppers / case	A79210052



### ClearVue Baskets

- Allow equipment compatibility with a variety of different stainers
- Can be loaded in mix-and-match fashion
- Baskets and hangers sold in sets of five

## Coverslips



### Richard-Allan Scientific Standard Coverslips

- Manufactured with colorless borosilicate glass
- All cover slips feature a high-spectral-transmission quality and a finely adaptive refractive index suited for microscopy
- Available in a variety of sizes, thicknesses, and shapes, including squares, rectangles, and circles



### Coverslips for Automated Systems

- Uniquely developed to minimize sticking and can be used in automated cover slippers or for manual use in humid environments
- Manufactured with colorless borosilicate glass
- All cover slips feature high-spectral-transmission quality and a finely adaptive refractive index suited for microscopy
- Available in a variety of sizes, thicknesses, and shapes



## Richard-Allan Scientific Resolve Immersion Oil

- Resolve™ Immersion Oil is a clear, colorless oil that allows light transmission throughout most of the UV-VIS spectrum
- Manufactured using a proprietary process that removes interfering substances and will not damage valuable optics or irreplaceable slide specimens
- Available in both low- and high-viscosity, is non-drying and non-hardening and has a refractive index of 1.5150
- Contains no PCB's, eliminating toxicity and disposal problems
- Conveniently packaged in four sizes

Description	Size	Qty.	Order Number
Low viscosity	0.5 oz	ea.	M2000
High viscosity	0.5 oz	ea.	M2004
Low viscosity	1 oz	ea.	M3000
High viscosity	1 oz	ea.	M3004
Low viscosity	4 oz	ea.	M4000
High viscosity	4 oz	ea.	M4004
Low viscosity	16 oz	ea.	M5000
High viscosity	16 oz	ea.	M5004

## Coverslipping Mountants

### Signature Series Mounting Medium

Richard-Allan Scientific Signature Series Mounting Medium is miscible with all clearing agents including xylene substitutes.

- Rapid drying
- Toluene base
- Optically clear
- Will not cause fading of stains even after prolonged storage

Description	Qty.	Order Number
4 oz (118 mL)	6 / case	4112
1 pt (0.4 L)	2 / case	4111

### ClearVue-Approved Mounting Mediums

Description	Qty.	Order Number
ClearVue-approved mount toluene-based 1 pt (473 mL)	2 / case	4211
ClearVue-approved mount xylene-based 1 pt (473 mL)	2 / case	4212



## Cytoseal 60 and 280

Richard-Allan Scientific Cytoseal 60 and 280 Mounting Media is a clear, colorless, toluene-based mounting media formulated from acrylic resins. The addition of antioxidants inhibits fading or yellowing of stained specimens.

- Will not crack or discolor with age
- Cytoseal 60 mountant is a low-viscosity medium that dries quickly
- Cytoseal 280 mountant is a high-viscosity medium for applications where minimal spreading is desired or without a cover glass

Description	Qty.	Order Number
Cytoseal 60; 4 oz	12 / case	8310-4
Cytoseal 60; 16 oz	12 / case	8310-16
Cytoseal 280; 4 oz	12 / case	8311-4



## Cytoseal XYL

Richard-Allan Scientific Cytoseal XYL mounting media contains an antioxidant to inhibit the fading or yellowing of stained specimens.

- Xylene-based
- Rapid drying allows microscopic examination of slides soon after application
- Packaged in a 4 oz bottle with a twist-open/twist-closed cap

Description	Qty.	Order Number
4 oz	12 / case	8312-4



## Shandon-Mount

Shandon Shandon-Mount permanent mounting medium is ideal for conventional coverslipping

- Economical, organic, overnight-drying liquid coverslip
- Toluene base
- Refractive index: 1.495 +/- 0.005 (dry)
- Viscosity: low (72 to 120 cps at 22 °C)

Description	Qty.	Order Number
60 mL	ea.	1900331
120 mL	ea.	1900333
500 mL	2 / case	9990435





### Shandon Immu-Mount

Shandon™ Immu-Mount™ is an aqueous base for immunostaining and other techniques.

- Non-permanent mountant
- Economical, organic, overnight drying liquid coverslip
- Aqueous base for immunostaining and other techniques
- Non-fluorescing medium with a low viscosity
- Resists fading and polymerises quickly for easier handling of finished slides
- Refractive index: 1.495 +/- 0.002 (liquid); 1.586 +/- 0.002 (dry)
- Viscosity: low (120 to 160 cps at 24 °C)
- pH: 8.0 from 8.8 at 21 °C to 24 °C

Description	Qty.	Order Number
20 mL	ea.	9990402
20 mL	6 / case	9990412
1 L	ea.	9990414



### Shandon Xylene Substitute Mountant

Shandon Xylene Substitute mountant is formulated specifically for use with the Shandon Xylene Substitute.

- A permanent, organic mounting medium
- Compatible with all routine xylene substitute clearing agents
- Toluene base
- Refractive index: 1.495 +/- 0.005 (dry)
- Viscosity: medium (120 to 265 cps at 24 °C)

Description	Qty.	Order Number
60 mL	ea.	1900231
120 mL	ea.	1900233
500 mL	2 / case	9999122



## EZ-Mount

- Permanent and organic mountant
- Xylene base
- Refractive index: 1.495 +/- 0.005 (dry)
- Viscosity: high (1280 to 2790 cps at 22 °C)

Description	Qty.	Order Number
500 mL	2 / case	9999120



## Shandon Synthetic Mountant

Shandon Synthetic Mountant is a permanent, organic mountant.

- Toluene base
- Refractive index: 1.495 +/- 0.005 (dry)
- Viscosity: medium (170 to 200 cps at 22 °C)

Description	Qty.	Order Number
500 mL	2 / case	6769007

## Coverslipping Forceps



### Coverglass Thumb Forceps

Coverglass Dissection Forceps are available in premium and standard grades.

- Flat, square-end tips
- Properly hardened, tempered and passivated
- Electronically polished and cleaned for a high-quality finish
- Patterns, dimensions and finish held to exacting standards, producing the finest instruments available
- Guaranteed to be free from defects in material and workmanship

Description	Qty.	Order Number
4.75 in. (12.1 cm)	ea.	19040



### Kuehne Coverglass Thumb Forceps

- Coverglass Thumb Forceps feature angled tips
- Flat, square-end tips
- Properly hardened, tempered and passivated
- Electronically polished and cleaned for a high-quality finish
- Patterns, dimensions and finish held to exacting standards, producing the finest instruments available
- Guaranteed to be free from defects in material and workmanship

Description	Qty.	Order Number
4.75 in. (12.1 cm)	ea.	19060

# Cytology

quality, reliable  
laboratory  
solutions



## Adopt efficiency, maintain integrity

Epredia Cytospins and consumables have been synonymous with cytocentrifugation for over 40 years. Used in laboratories around the world, they have enabled laboratories to process cytology samples efficiently, providing economical thin-layer preparations from any liquid matrix.

### Reliable Quality

- Maintain cellular integrity and carefully separate and deposit cells in a monolayer
- Ready-to-use reagents for quick turn around time

### Adaptive and Convenient

- Use for cytology, virology, microbiology, hematology oncology, and research/general use
- Removable program card allows for up to nine programs to be logged

### The Total Solution

- Enhance the use of your Cytospin with a wide variety of high quality Epredia cytology consumables, including funnels, slides, and fixation solutions
- Get peace of mind with Epredia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory



## Cytospin 4 Cytocentrifuge

The Cytospin™ 4 cytocentrifuge has been synonymous with cytocentrifugation for over 40 years and is used in laboratories around the world.

When combined with EpreDia cytology consumables, it provides economical thin-layer preparations from any liquid matrix, especially hypocellular fluids such as spinal fluid and urine.

### Convenience and Speed Spun into One

- Process twelve specimens at one time, allowing for several protocols at once
- Accepts all protocols from previous generations of Cytospin cytocentrifuges
- Lid release mechanism allows for one-handed opening and closing
- Removable program card allows for up to nine programs to be logged for fast and convenient reference, and protected program memory stores up to 23 routines for instant recall
- Control panel allows user to control power and time, and monitor speed
- Specimen safety alarm feature reminds users at one-minute intervals to remove specimens, protecting them from air-drying

### Simple Principle for Excellent Presentation

- Using centrifugal principles, the cytocentrifuge deposits cells onto a clearly defined area of a glass slide and allows for the absorption of the residual fluid into the sample chamber's filter card
- Cytocentrifugation constructively flattens cells for excellent nuclear presentation
- The instrument's spinning action tilts the Cytofunnel sample chamber upright and centrifuges cells onto the deposition area of the slide, creating a cellular monolayer that provides all cell types equal opportunity for presentation
- In the "load" or "stop" position, this unique tilting feature reduces cell loss by preventing residual fluid from coming into contact with the prepared slide

### Designed for User Safety

- Only operates when the lid is locked and remains locked during rotation
- Polycarbonate window allows the operator to see the sealed head during cytocentrifugation

### Physical Specifications

Dimensions (D x W x H):  
With closed lid:  
24.5 x 16 x 9.5 in. (62 x 40.5 x 24 cm)

With open lid:  
24.5 x 16 x 25 in. (62 x 40.5 x 62.5 cm)

Weight:  
26.5 lbs / 12 kg

Power Requirements:  
100-240 V, 50/60Hz, 150 VA, 5A  
250 V, T5A 250 V

### Includes:

Cytospin 4 cytocentrifuge, sealed head/rotor, marking pen, operator guide, service record book and standard workflow diagram.

## Multiple Applications:

### Research/General Use

- A cost-effective and time-effective way to make quality thin-layer cell preparations
- Excellent for molecular studies, specialized staining applications and EM
- Used in veterinary, dental and chemosensitivity protocols

### Cytology

- Excellent performance for non-gynecological cytology, especially hypocellular fluids
- Variety of collection fluids and funnel options available
- Prepares both air-dried and fixed specimens
- Can be used for liquid-based cytology (LBC) applications

### Microbiology

- Microorganisms are often present in low numbers from limited sample volumes; Cytocentrifugation effectively spins the microorganisms onto the slide, maximizing the yield and presenting those organisms in a clean, defined area, allowing for straightforward morphological identification
- Only a small sample volume is needed so multiple samples may be run for a variety of special staining and support testing procedures
- Concentrates samples for Gram stains

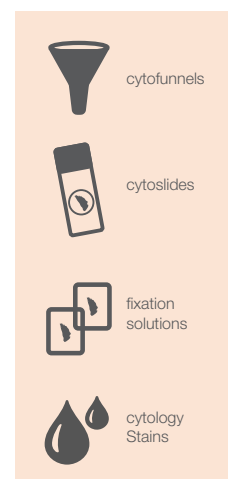
### Hematology/Oncology

- Easy to achieve a constant cell/unit volume
- Excellent for all fluids, bone marrow and peripheral blood

Description	Order Number
Cytospin 4 unit only	A78300003
EZ Funnel starter kit	A78710013
Clipped Funnel starter kit	3120110

Accessories	Order Number
Additional sealed head	59910018
Sealed head seals (3 / pack)	59910019
Service manual	A7831251

### You'll need:



# Shandon EZ Cytofunnel Sample Chambers

## EZ Cytofunnel™ General Features

- For single use with all EpreDia Cytospin cytocentrifuge applications
- Optimizes cell yield
- Produces cost-effective, thin-layer preparations
- Reduces the risk of exposure to pathogenic samples
- Disposable to eliminate time-consuming decontamination and cleaning
- Decreases the possibility of cross-contamination
- Eliminates the need for metal Shandon™ Cytoclips™ slide clip



### Shandon EZ Single Cytofunnel with White Filter Cards

Shandon™ EZ Single Cytofunnel™ is a disposable sample chamber with white filter card and cap. Made for high absorbency.

- Use for sample volumes from 0.1-0.5 mL
- Cell deposition area of 6 mm in diameter (28 mm<sup>2</sup>)
- Pre-attached white filter card for high absorbency

Qty	Order Number
40 / box	A78710003
200 / case	A78710020



### Shandon EZ Single Cytofunnel with Brown Filter Cards

Shandon EZ Single Cytofunnel is a disposable sample chamber with brown filter card and cap. Made for slower absorbency.

- Use for sample volumes from 0.1-0.4 mL
- Cell deposition area of 6 mm in diameter (28 mm<sup>2</sup>)
- Pre-attached brown filter card for slower absorbency; increases cell yield
- Excellent for hypocellular specimens such as cerebrospinal fluid

Qty	Order Number
40 / box	A78710004



### Shandon EZ Double Cytofunnel

Shandon™ EZ Double Cytofunnel™ is a disposable sample chamber with white filter card and cap.



- Use for sample volumes from 0.05-0.25 mL per chamber
- Allows two sample deposition areas on a single slide; each area measures 6 mm in diameter (28 mm<sup>2</sup>)
- Double the number of sample presentations per run
- Funnel markings correspond to slide markings for simple identification
- Pre-attached white filter card for high absorbency
- Ideal for use with immunochemistry techniques

Qty	Order Number
40 / box	A78710005
200 / case	A78710021



## Shandon EZ Megafunnel with Cap and Slide

Shandon™ EZ Megafunnel™ is a disposable, high-volume sample chamber with cap.

- Designed for spinning large samples from 0.5-6 mL
- Cell deposition area of 22 x 14.75 mm (325 mm<sup>2</sup>) for increased cell yield
- Minimizes the need to pre-centrifuge
- Prepares both air-dried and fixed preparations, providing additional valuable diagnostic information

Qty	Order Number
25 / box	A78710001

# Shandon Cytofunnels

## Cytofunnel General Features

- Fit snugly against a specially marked Cytoslide
- Held in place with a stainless steel Cytoclip
- Cytoclips easily unlock to dispose of the sample chamber and to remove the slide
- Twelve assemblies fit into the Cytospin head
- Include caps and easy-to-use operational illustrations



## Shandon Single Cytofunnel with White Filter Cards

Shandon Single Cytofunnel is a disposable sample chamber with white filter card and cap. Made for high absorbency.

- Use for sample volumes from 0.1-0.5 mL
- Cell deposition area of 6 mm in diameter (28 mm<sup>2</sup>)
- Pre-attached white filter card for high absorbency
- Requires the use of stainless steel Cytoclips

Qty	Order Number
50 / box	5991040
500 / case	1102548



## Shandon Single Cytofunnel with Brown Filter Cards

Shandon Single Cytofunnel is a disposable sample chamber with brown filter card and cap. Made for slower absorbency.

- Use for sample volumes from 0.1-0.4 mL
- Cell deposition area of 6 mm in diameter (28 mm<sup>2</sup>)
- Pre-attached brown filter card for slower absorbency; increases cell yield
- Excellent for hypocellular specimens such as cerebrospinal fluid
- Requires the use of stainless steel Cytoclips

Qty	Order Number
50 / box	5991043



## Shandon Double Cytofunnel

Shandon Double Cytofunnel is a disposable sample chamber with white filter card and cap.


- Use for sample volumes from 0.05-0.25 mL per chamber
- Allows two sample deposition areas on a single slide; each area measures 6 mm in diameter (28 mm<sup>2</sup>)
- Funnel markings correspond to slide markings for simple identification
- Pre-attached white filter card for high absorbency
- Ideal for use with immunochemistry techniques
- Requires the use of stainless steel Cytoclips

Qty	Order Number
25 / box with caps	5991039
500 / case	1102547

## Shandon Cytoclip Stainless Steel Slide Clip

Shandon™ Cytoclip™ Stainless Steel Slide Clips hold the Cytofunnel sample chamber against the microscope slide during cytocentrifugation.

- For preparation in the Cytospin cytocentrifuge
- Autoclavable and reusable



Qty	Order Number
6 / box	59910052



### Shandon TPX Single Sample Chamber, Caps, and Filter Cards

Shandon TPX Single Sample Chamber is a reusable sample chamber used in conjunction with a closure cap, Cytoclip and disposable filter card.

- Use with disposable white filter cards for routine sample volumes from 0.1-0.5 mL
- Use with disposable brown filter cards for hypocellular sample volumes from 0.1-0.4 mL or less
- Reusable
- Autoclavable

### Filter cards

Highly absorbent disposable filter cards for use with TPX chamber

- Not for use with Cytofunnel disposable sample chambers
- Each filter card has two holes to ensure proper orientation with the TPX sample chamber
- White filter cards are used for high absorbency
- Brown filter cards are used for slower absorbency (hypocellular)

Description	Qty.	Order Number
TPX sample chamber	12 / case	A78710018
Closure caps	12 / case	59910025
Brown filter cards	200 / box	5991023
White filter cards	200 / box	5991022

## Shandon Cytoslides

### General Features

- Specimen area is outlined for rapid location during screening
- Made from fine white glass, manufactured to high quality standards
- Slides are pre-cleaned, thin, flat, and feature finely ground edges.

### Coated Cytoslides

- Eliminate the need for albumin coating procedures
- Save labor and resource time
- Coated adhesion Cytoslides are designed to secure cytology preparations
- Coating features a chemistry based on silane

Contact your sales representative for more information.



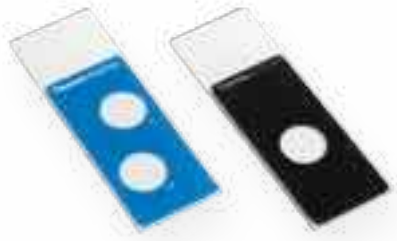
### Shandon Single Cytoslides

- Improve processing and visualization of small-volume specimens with Shandon™ Single Cytoslides™, for use with EZ Single Cytofunnels
- Slides feature a white tab and 13 mm diameter ring that defines the cell display area to allow for efficient and rapid location
- Uncoated single 13 mm ring Cytoslides are available with the ring on front or back of slide
- Coated single 13 mm ring Cytoslides feature the ring on the back of slide only



### Shandon Double Cytoslides

- Use Shandon™ Double Cytoslides™ with EZ Double Cytofunnel Chambers
- Slides feature a blue tab and two blue 13 mm diameter rings that define the cell display area to allow for efficient and rapid location
- Each specimen is displayed within a numbered ring marked as 1 or 2 that corresponds with the Cytofunnel chamber
- Uncoated and coated double 13 mm ring Cytoslides are available with the rings on back of slide only



### Shandon Mask Cytoslides

- Mask out UV light to restrict microscope viewing to the specimen with Shandon™ Mask Cytoslides™
- Shandon Mask Cytoslides are used for immunofluorescence and feature white tabs
- Single Mask Cytoslides features a black mask printed on front of slide with one 13 mm well
- Double Mask Cytoslides features a blue mask printed on front of slide with two 13 mm numbered wells

## Shandon Fixation Solutions



### Richard-Allan Scientific MucoLytic Agent

- Richard-Allan Scientific MucoLytic Agent is specially formulated to preserve and liquefy mucoid cytology specimens to optimize diagnostic results
- Maintains cell morphology and staining characteristics of fresh and unfixed cytology specimens
- Specimens may be stored within this solution indefinitely with no adverse effects
- Tinted for easy specimen identification

Description	Qty.	Order Number
1 pint (0.47 L)	4 / case	76166
1 gal (3.8 L)	ea.	76167



### Richard-Allan Scientific Saccomanno Fluid

- Richard-Allan Scientific Saccomanno Fluid is a general purpose cytology fixative especially suited for upper respiratory tract specimens - most notably, sputum
- Ready-to-use fixative is an alcohol and polyethylene glycol (Carbowax™) solution
- Permits storage of specimens for weeks
- Prevents air-drying artifact
- Clear containers and tinted solution make specimen identification easy
- Each prefilled container is labeled with a “do not drink” warning, as specimens may be collected at home

Description	Qty.	Order Number
120 mL	72 / case	76160
1 gal (3.8 L)	ea.	76161



### Richard-Allan Scientific Fix-Rite 2

- Richard-Allan Scientific™ Fix-Rite™ 2 solution is a Carbowax™-containing spray fixative used for routine cytological preparations
- Coating protects cells when mailing or transporting slides to the laboratory; prevents air-drying artifact
- Packaged in 4 oz containers to allow the user complete control during application

Description	Qty.	Order Number
Pump spray bottle	12 / case	76150





### Shandon Cytospin Collection Fluid

Shandon Cytospin Collection Fluid is packaged in several forms, including convenient pump bottle or pre-filled specimen containers.

- Ready-to-use alcohol/Carbowax polyethylene glycol combination for direct specimen collection and fixation
- Permits storage of specimens or unstained slides for weeks without adverse effect

Description	Qty.	Order Number
<b>Pump Bottle</b>		
4 L (1.06 gal)	ea.	6768001
<b>Bottle</b>		
500 mL (0.13 gal)	2 / case	6768315
10 L (2.64 gal) cubitainer	2 / case	9990310
<b>Cups</b>		
120 mL, filled to 60 mL	125 / case	9990323



### Shandon Cell-Fixx Spray Adhesive

Shandon™ Cell-Fixx™ Spray Fixative allows for convenient preparation of slides.

- Includes Carbowax, which coats the smear to maintain cellular detail
- Prevents air drying artifact and cell loss
- Supplied in pump bottle

Description	Qty.	Order Number
50 mL	6 / case	6768326



## Shandon CytoRich Red Collection Fluid

Shandon™ CytoRich™ Red Collection Fluid lyses RBC's and solubilizes proteins.

- Ready-to-use, alcohol-based fluid
- Compatible with immunohistochemistry
- Pre-filled containers and pre-filled vials available

Description	Qty.	Order Number
<b>Bottle</b>		
500 mL (0.13 gal)	2 / case	B9990801
4 L (1.06 gal)	ea.	B9990800
<b>Pre-filled Cups</b>		
20 mL, filled to 10 mL	180 / case	B9990802
120 mL, filled to 60 mL	125 / case	B9990803
<b>Pre-filled Vials</b>		
50 mL, filled to 15 mL (AMER)	100 / case	B9990804
50 mL, filled to 15 mL (APAC)	100 / case	B9990804CR



## Shandon Mucollex

- Liquefies (with agitation) mucoid cytology specimens
- Maintains cellular detail
- Short-term preservation of specimens
- Ready-to-use mucoliquefying preservative

Description	Qty.	Order Number
<b>Bottle</b>		
500 mL (0.13 gal)	2 / case	9990370
4 L (1.06 gal)	ea.	9990371
<b>Cups</b>		
120 mL, filled to 60 mL	50 / case	9990375

# Richard-Allan Scientific Cytology Stains



## Signature Series Cyto-Stain

Richard-Allan Scientific™ Signature Series Cyto-Stain™ is a uniquely formulated cytoplasmic stain that produces results similar to conventional Papanicolaou stains.

- Cyto-Stain provides a full range of familiar cytoplasmic colors and allows the user control over the staining intensities
- Cyto-Stain G is a modification to produce greener cyanophilic hues in intermediate and basal cells
- Use for all gynecological and non-gynecological procedures
- Cost-effective because user performs only one counterstain, not two
- Reduces staining time

Description	Qty.	Order Number
<b>Cyto-Stain</b>		
1 pint (0.47 L)	4 / case	7511
1 gal (3.8 L)	ea.	7501R
<b>Cyto-Stain G</b>		
1 gal (3.8 L)	ea.	7501G

## Signature Series Cyto-Stain

Richard-Allan Scientific Papanicolaou Stain OG-6 stains are used to stain keratinized areas of the cell.

- Modified OG is a Gill modification that minimizes precipitation and reduces staining time
- Use OG stains with EA-36 or EA-50 when staining gynecological specimens
- Use OG stains with EA-65 for staining non-gynecological specimens

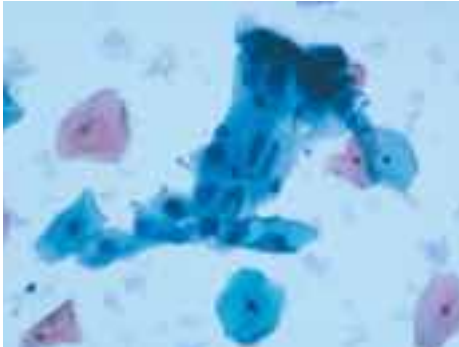
Description	Qty.	Order Number
<b>OG-6</b>		
1 pint (0.47 L)	4 / case	75204
1 gal (3.8 L)	ea.	75211
2.6 gal cube (9.5 L)	ea.	75225
<b>Modified OG</b>		
1 gal (3.8 L)	ea.	75311

## Richard-Allan Scientific Papanicolaou Stain EA

- Richard-Allan Scientific Papanicolaou Stain EA provides brilliant cytoplasmic staining for gynecological and non-gynecological specimens
- Different formulations offer the user control of the color intensities and hues
- EA-36 and EA-50 are used in conjunction with OG-6 for gynecological staining
- EA-65 is used with OG-6 for non-gynecological staining
- Modified EA is a Gill modification that minimizes precipitation, reduces staining time and does not contain Bismarck Brown; designed to be used with Modified OG

Description	Qty.	Order Number
<b>EA-36</b>		
1 pint (0.47 L)	4 / case	75411
1 gal (3.8 L)	ea.	75411
<b>EA-50</b>		
1 pint (0.47 L)	4 / case	75504
1 gal (3.8 L)	ea.	75511
2.5 gal cube (9.5 L)	ea.	75525
<b>EA-65</b>		
1 pint (0.47 L)	4 / case	75604
1 gallon (3.8 L)	ea.	75611
2.5 gal cube	ea.	75625
<b>Modified EA</b>		
1 pint (0.47 L)	4 / case	75704
1 gal (3.8 L)	ea.	75711

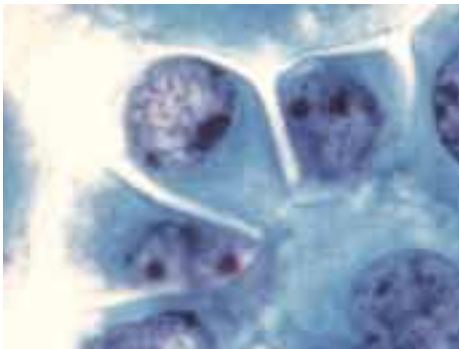
## Shandon Cytology Stains



### Shandon EA-50 Stain

- Clearly differentiates cellular components with pink, green and blue-green hue
- Polychromatic cytoplasmic stain

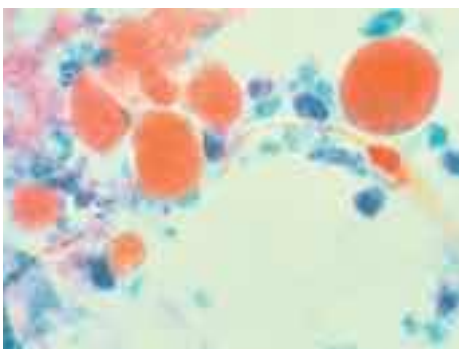
Description	Qty.	Order Number
1 L (0.26 gal)	2 / case	6766001
4 L (1.06 gal)	ea.	6766002



### Shandon EA-65 Stain

- Clearly differentiates cellular components with pink, green and blue-green hue
- Polychromatic cytoplasmic stain
- Lower concentration of light green improves expression of eosin-stained components

Description	Qty.	Order Number
1 L (0.26 gal)	2 / case	6766003
4 L (1.06 gal)	ea.	6766004



### Shandon OG-6 Stain

- Demonstrates keratin in cytoplasm

Description	Qty.	Order Number
1 L (0.26 gal)	2 / case	6766005
4 L (1.06 gal)	ea.	6766006

## Shandon Cell Preparation Systems



### Shandon Octospot

Shandon™ Octospot™ is a cell preparation system used in conjunction with the Epredia Cytospin for studies involving small volume samples.

- Cytocentrifuge cells from 8-well microliter strips directly onto a microscope slide (96 spots per spin); turn eight slides into one
- Incorporates an 8-well strip, an 8-well slide, a holding block and a filter card assembled in a standard stainless steel Cytoclip
- Solvent-resistant slides retain separate reagents in individual wells to prevent cross-contamination

Description	Qty.	Order Number
Thick-filter cards	100 / pack	1001641
8-well strips, loose	60 / bag	1001642
Solvent-resistant slides, 8 spots	100 / box	1001645
Coverglass, 22 x 70 mm, #1.0 thickness	1 oz / pack x 10	1001624



### Shandon Cytoblock Cell Block Preparation System

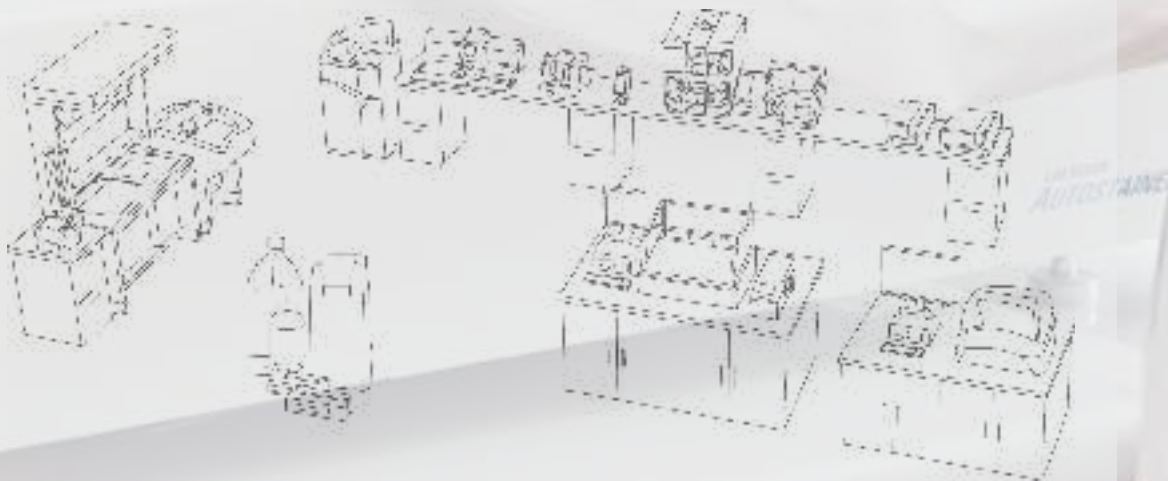
Shandon™ Cytoblock™ Cell Block Preparation System is used in conjunction with the Cytospin and facilitates processing of FNA's, tissue fragments and cell buttons.

- Increases ability to process scanty or unseen material for cell block and reduces loss of critical material
- Replaces time-consuming, costly agar and thrombin techniques
- Requires phosphate-free fixative on processor, such as Zinc Formal-Fixx™, Formal-Fixx or Glyo-Fixx™ (formalin substitute) fixatives; or manually fix and bypass phosphate-buffered formalin fixation steps on processor
- Processes 50 specimens and includes 50 Cytoblock cassettes with inserts, one bottle of Setting Reagent and one bottle of Gelling Reagent
- Suitable for immunohistochemical techniques

Description	Order Number
Cytoblock cell block kit	7401150
Replacement reagents	7401151

# Immunohistochemistry

precise results





## Achieve accurate results with outstanding quality

Accurate and reproducible immunohistochemistry is essential in research and diagnostics. Whether performing research assays on precious samples or catering to a patient awaiting timely and precise results, Eprelia Immunohistochemistry solutions deliver high quality results.

### Flexible

- Autostainer 360, 480S, and 720 offer fully open platforms for ultimate customization of reagent layout
- Accommodates customized protocols and reagent delivery
- Slides are rapidly transferred from the PT Module™ to the Autostainer on racks compatible to both

### Robust

- Proven, dependable technology trusted by laboratory staff for years
- Standardized heat-induced epitope retrieval with the PT Module, protecting your staff from harmful fumes by providing safe, solvent-free de-waxing

### Accurate

- Advanced reagents drive enhanced sensitivity, producing high-quality, accurate results

### The Total Solution

- Achieve accurate and specific results in immunohistochemical assays with our array of detection technologies designed to meet the needs of both the clinical and research market
- Get peace of mind with Eprelia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory

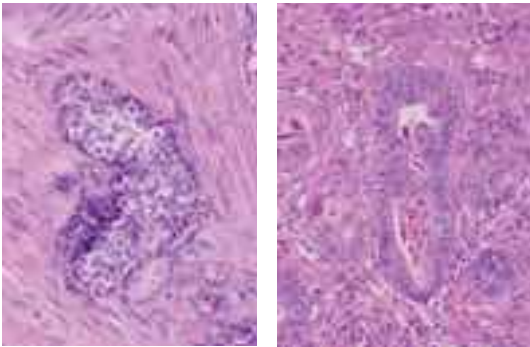


## Immunohistochemistry Workflow

When test results determine the diagnosis, prognosis and potential treatment of patient disease, achieving accurate, reproducible results in the shortest period of time is crucial. Eprelia Immunohistochemistry products provide a comprehensive set of high quality and affordable solutions to bring further standardization to today's laboratories.

Used as a system, Eprelia instrumentation, advanced reagents, and specimen verification are the standardized solution for your Immunohistochemistry laboratory. Standardization with quality results brings consistency, and with the Eprelia IHC solution, you can rest assured that your process will provide accurate results, time and again.

The following workflow diagram demonstrates the complete Eprelia Immunohistochemistry solution.



### 1 IHC Sample Request

When Immunohistochemistry (IHC) tests are requested, you require a system that can ensure accurate, reproducible results in the shortest time possible.

### 2 Improved Sample Verification

Eliminate manual steps and reduce the potential for patient identification errors. The Eprelia IHC system can read SlideMate labeled slides, printed on-demand at any microtome, eliminating time-consuming manual data entry and/or the need to hand-label IHC slides.



### 3 Standardized Antigen Retrieval

Slides receive precise computer-controlled antigen retrieval in the PT Module, which can also perform heat-induced deparaffinization.



## 4 One-Step Transfer

Slides rapidly transfer from the PT Module to the Autostainer in one step, maintaining throughput while significantly reducing costs.



## 5 Epredia Autostainer

Slides are stained in the fully open Autostainer that leaves laboratories in control of costs and test parameters. The proven record for consistency and dependability minimizes downtime and ensures quality results.

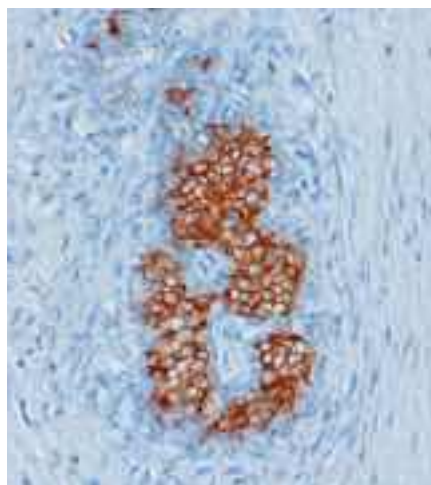


## 6 Rabbit Monoclonal Antibodies and Enhanced Detection

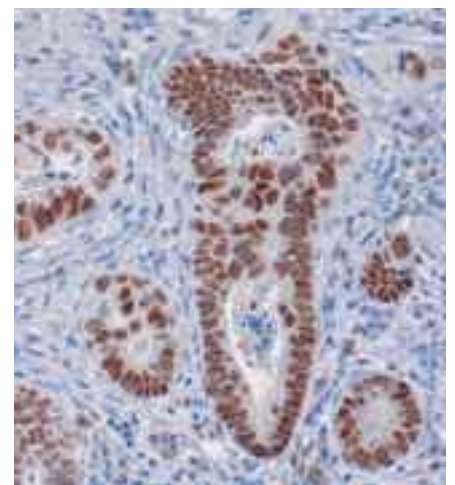
Advanced reagents drive the enhanced sensitivity and crisp, clean results on the system. The UltraVision Quanto™ detection system is the latest micropolymer technology capable of enhancing antibodies of mouse and rabbit origin, producing superior results at a surprisingly affordable cost per test.

## 7 Superior Results

You can rely on the combination of superior quality, timely results and increased laboratory profitability with the Epredia Immunohistochemistry system. Convince yourself by evaluating the system in your own laboratory — the results speak for themselves.



PSA (Prostate Specific Antigen), clone EP1588Y RM-2104



CDX2, clone EPR2764Y RM-2116



## Autostainer 360, 480S, and 720

In an industry where seemingly small decisions can have huge implications and the quality of your test is critical, it is good to know that EpreDia has a range of fast, accurate and cost effective solutions used globally throughout the Immunohistochemistry (IHC) field.

Our IHC range of solutions combines the knowledge and experience of one of the best known names in the IHC field (Labvision), with the backing and support of the world leader in serving science.

### Physical Specifications

Dimensions (D x W x H):

**360:** 26.4 x 30 x 22.8 in.  
(67 x 76 x 58 cm)

**480S:** 26.4 x 36 x 22.8 in.  
(67 x 91 x 58 cm)

**720:** 26.4 x 50.4 x 22.8 in.  
(67 x 128 x 58 cm)

Weight:

**360:** 121 lbs / 55 kg

**480S:** 143 lbs / 65 kg

**720:** 176 lbs / 80 kg

Power requirements:

100-120 V or 220-240 V;  
50/60Hz; 4A max at 100-120  
Vac, 2A max at 220-240 Vac

### Includes:

Autostainer unit, slide racks (number varies per instrument), reagent rack for barcoded vials (number varies per instrument), PC Computer, 19" flat panel monitor, Zebra reagent and slide label barcode printers, universal power supply temporary backup, color ink jet printer, one wash buffer input and one DI water input, waste separation into hazardous and nonhazardous containers, waste/bulk fluid containers, four, ten-liter carboys, cleaning kit; brush and reagents for automated cleaning, buffer rinse squirt bottle for rinsing slides, misc. USB and power cords (all required cords included), electronic manual on CD.

### What's Best for the Patient

- Standardized and precise antigen retrieval, combined with reliable staining units provides assurance your requested tests are stained according to your high-quality standards
- Dual barcoding ensures that each slide receives the correct reagents

### Make Better Use of Time

- Robust, reliable automation of processes allows you to spend your time handling results rather than diagnosing instrumentation problems
- Barcoding of slides and reagents simplifies the instrument loading and programming process
- Rapid staining turn-around time means higher throughput and allows you to return patient specimen test faster

### Adapted to Fit Your Specific Needs

- Standardization of processes via the PT Module and EpreDia Autostainer produces consistent, high-quality results
- Three models allow for any instrument configuration to best accommodate average slide volumes and peaks throughout the day
- The open platform enables you to take full advantage of flexible protocol design and consider economically attractive reagent packages

### Save money and save lives

- Get the best possible value by working directly with the manufacturer of both the instruments and reagents; and benefit from the simplicity of getting any solution for the pathology laboratory from a single source

## Autostainer 360

- This most compact variant is ideal for laboratories where speed and continuous workflow are imperative

## Autostainer 480S

- All the benefits of the 360 but with increased slide capacity to 48 slides and up to 49 reagent vials

## Autostainer 720

- The Autostainer 720 handles up to 84 slides at once and is designed for large-batch applications

Description	Order Number
<b>Autostainer 360</b>	
110/120 V	A80500004A
220/240 V	A80500003
<b>Autostainer 480S</b>	
110/120 V	A80500008A
220/240 V	A80500007
<b>Autostainer 720</b>	
110/120 V	A80500001A
220/240 V	A80500009

Autostainer Accessories	Qty.	Order Number
Barcodeable Autostainer vial 12 ml	100 vials	K00029
Reagent vial barcode labels	3000 labels	A80510134
Slide labels (solvent resistant, no flap)	2600 labels	A80510164
Slide labels (solvent resistant, flap)	2500 labels	A80510135
Autostainer operator guide	1 CD	A80510107-CD
PT Module pump kit	1 kit	A80410030
Autostainer 480 reagent rack	1 rack	A80510138
2D Autostainer vial storage rack	1 rack	S00140
PT Module tank and lid	1 tank and lid	P00005A



### You'll need:



antibodies



detection systems





## PT Module

Standardization in the laboratory is important to obtaining high quality and consistent IHC staining. The PT Module standardizes the manual steps associated with the pre-treatment of slides.

### Features

- Designed to simultaneously perform dewaxing and epitope recovery on slides prior to immunostaining
- Accommodates either four Autostainer slide racks or eight standard manual slide racks directly into the PT Module
- Integrated computer with touch screen for programming standardized pre-treatment programs
- Ability to modify the start/stop time and temperature settings to optimize results
- The PT Module has dual reaction baths so that two individual procedures, each with 24 slides, may be run independently
- EpreDia's proprietary epitope recovery solutions provide safe, solvent-free dewaxing and is safer for the environment
- Delayed start option allows overnight processing so slides are ready and waiting when you start your day

### Dewax and HIER Buffers

- Patented formula, specifically designed for use with the PT Module
- Dissolves paraffin instead of just melting it

### Physical Specifications

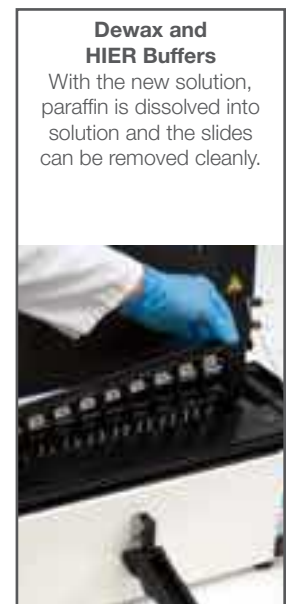
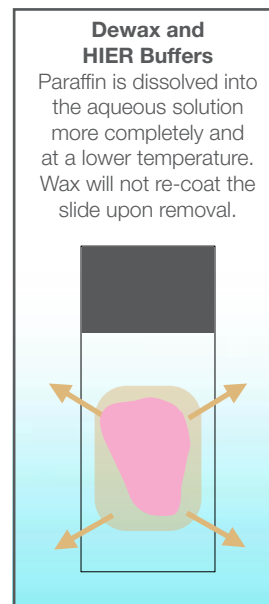
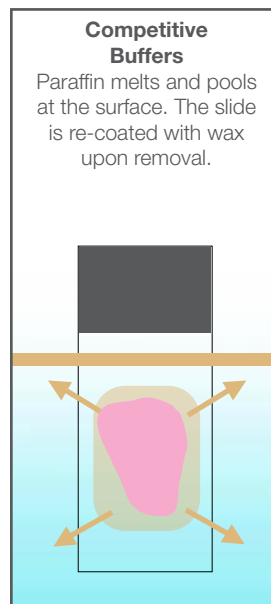
Dimensions (D x W x H):  
25.5 x 10.5 x 10 in.  
(65 x 27 x 26 cm)

Weight:  
Empty: 33 lbs (15 kg)

Power requirements:  
100-120 V, 50/60 Hz, 10A Max  
220-240 V, 50/60 Hz, 5A Max

### Includes:

Stainless steel buffer tank (2/ pk.), buffer tank cover (2/pk.), serial cable, buffer kit, IVD letter, operator information pack, accessory pump kit, EMC statement.



Description	Order Number
110/120 V	A80400012
220/240 V	A80400011

Sequenza Slide Racks and Coverplates	Qty.	Order Number
Sequenza slide rack and lid	Holds 10 slides	73310017
Coverplates	250 / case	72110013
Coverplates	25 / pack	72110017
Dropper bottles	50 / pack	73310007
Buffer bottle 750 mL	ea.	73310002

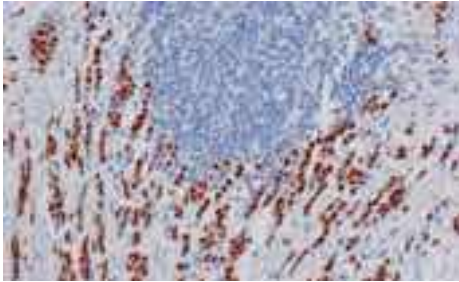
Shandon Humidity Chamber	Qty.	Order Number
Humidity chamber	ea.	197
Aluminum slide tray	ea.	203
Acrylic lid	ea.	231974
Polyethylene lid	ea.	10388



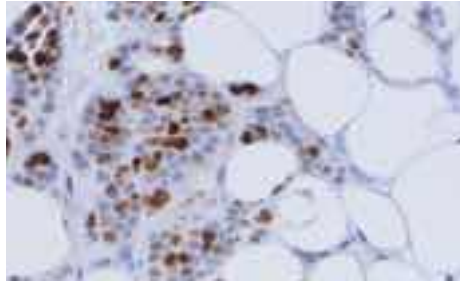
Epitope Retrieval	Order Number	Use
Dewax and HIER Buffer (H, M, L) variety pack (15x concentrate)	TA-999-DHBVP	IVD
Dewax and HIER Buffer H (15x concentrate) 10x100 mL	TA-999-DHBH	IVD
Dewax and HIER Buffer L (15x concentrate) 10x100 mL	TA-999-DHBL	IVD
Dewax and HIER Buffer M (15x concentrate) 10x100 mL	TA-999-DHBM	IVD
HIER Buffer H, 9 BT/CS Tris-EDTA Buffer, 15 mL/BT	TA-135-HBH	IVD
HIER Buffer L, 9 BT/CS Citrate Buffer, 15 mL/BT	TA-135-HBL	IVD
HIER Buffer M, 9 BT/CS EDTA Buffer, 15 mL/BT	TA-135-HBM	IVD
Citrate Buffer for HIER 125 mL	AP-9003-125	IVD
Citrate Buffer for HIER 500 mL	AP-9003-500	IVD
EDTA Buffer for HIER (10x) 125 mL	AP-9004-125	IVD
EDTA Buffer for HIER (10x) 500 mL	AP-9004-500	IVD
Tris-HCl Buffer for HIER (10x) 50 mL	AP-9005-050	IVD
Tris-HCl Buffer for HIER (10x) 125 mL	AP-9005-125	IVD
Tris-HCl Buffer for HIER (10x) 500 mL	AP-9005-500	IVD

Enzyme Retrieval	Order Number	Use
Protease XXV for Enzyme-Induced Epitope Retrieval 2 mL	AP-9006-002	IVD
Protease XXV for Enzyme-Induced Epitope Retrieval 5 mL	AP-9006-005	IVD
Pepsin Solution for Enzyme-Induced Epitope Retrieval 5 mL	AP-9007-005	IVD

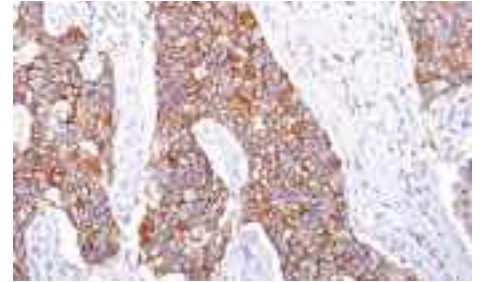
## Breast Panel



Estrogen receptor positive breast ca stained with Clone SP1 (RM-9101-S) and UltraVision Quanto.



High grade breast ca stained with Ki67 Clone SP6 (RM-9106-S) and UltraVision Quanto.



Breast ca with amplified Her 2 stained with Clone SP3 (RM-9103-S) visualized with UltraVision Quanto

Antibody	Clone	Cat. No.	Description	Regulatory Status
Estrogen Receptor	SP1	RM-9101	SP1 is quickly becoming the gold standard in ER evaluation with higher sensitivity than other common tests <sup>1</sup>	USA: IVD INT'L: IVD
Progesterone Receptor	SP2	RM-9102	Sensitive and specific PR marker	USA: IVD INT'L: IVD
Ki-67	SP6	RM-9106	Produces substantially less background than commonly used Ki67 antibodies <sup>2</sup>	USA: IVD INT'L: IVD
Her-2	SP3	RM-9103	High resolving power may reduce 2+ results that require additional FISH testing <sup>3</sup>	USA: ASR INT'L: IVD
p53	Y5	RM-2103	Negative prognostic factor in breast cancer	USA: IVD INT'L: IVD
Keratin 5	XM26	MS-1896	Sensitive for identifying the "basal-like" phenotype of breast cancer <sup>4</sup>	USA: IVD INT'L: IVD
Keratin 7	OV-TL 12/30	MS-1352	Identifies luminal cells and is useful for distinguishing between lung and breast epithelium	USA: IVD INT'L: IVD
Keratin 20	Ks20.8	MS-377	Useful as a negative indicator for breast adenocarcinomas	USA: IVD INT'L: IVD
Mammaglobin	3304-1A5	MS-1919	Mammary marker and elevated expression may indicate a less aggressive tumor.	USA: IVD INT'L: IVD
NY-BR-1	NYBR-1#2	MS-1932	Highly specific breast marker useful for identifying undifferentiated breast cancer <sup>5</sup>	USA: IVD INT'L: IVD
E-Cadherin	EP700Y	RM-2100	Useful for differentiating lobular from ductal breast carcinoma	USA: IVD INT'L: IVD

<sup>1</sup>Cheang MC, Treaba DO, Speers CH, Olivetto IA, Bajdik CD, Chia SK, Goldstein LC, Gelmon KA, Huntsman D, Gilks CB, Nielsen TO, Gown AM. Immunohistochemical detection using the new rabbit monoclonal antibody SP1 of estrogen receptor in breast cancer is superior to mouse monoclonal antibody 1D5 in predicting survival. *J Clin Oncol.* 2006 Dec 20;24(36):5637-44.

<sup>2</sup>Zabalgo L, Salter J, Anderson H, Quinn E, Hills M, Detre S, A'Hern R, Dowsett M. Comparative validation of the SP6 antibody to Ki67 in breast cancer. *J Clin Pathol.* 2010 Sep;63(9):800-4.

<sup>3</sup>Sheila C.L. Wludarski, MD and Carlos E. Bacchi, MD, PhD. High Concordance of SP3 Rabbit Monoclonal Antibody With FISH to Evaluate HER2 in Breast Carcinoma. *Appl Immunohistochem Mol Morphol.* 2008 Oct;16(5):466-70.

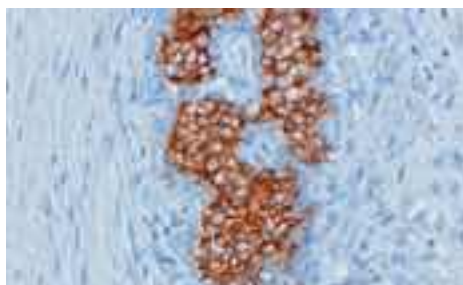
<sup>4</sup>Rohit Bhargava, MD, Sushil Beriwal, MD, Kim McManus, HT(ASCP), and David J. Dabbs, MD. CK5 is More Sensitive Than CK5/6 in Identifying the "Basal-Like" Phenotype of Breast Carcinoma. *AM J Clin Pathol* 2008;130:724-730.

<sup>5</sup>Varga Z, Theurillat JP, Filonenko V, Sasse B, Odermatt B, Jungbluth AA, Chen YT, Old LJ, Knuth A, Jäger D, Moch H. Preferential nuclear and cytoplasmic NY-BR-1 protein expression in primary breast cancer and lymph node metastases. *Clin Cancer Res.* 2006 May 1;12(9):2745-51.

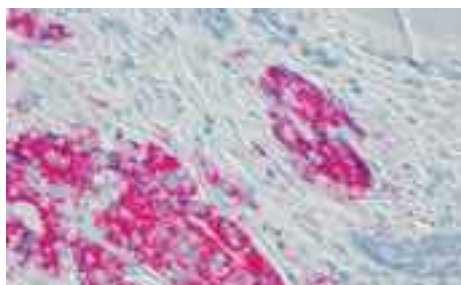
<sup>6</sup>Descriptions are for general reference only. Please consult the datasheet and current literature for more information.



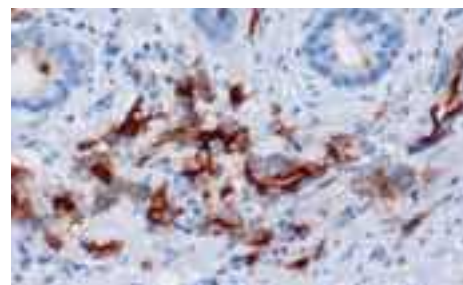
## Prostate Panel



Prostate carcinoma identified with PSA Clone EP1588Y (RM-2104-S) and UltraVision Quanto.



Prostate carcinoma stained with p540s -AMACR Clone 13H4 (RM-9130-S) and UltraVision Quanto.



Prostate cancer stained with PSMA Clone SP29 (RM-9131-S) and UltraVision Quanto.

Antibody	Clone	Cat. No.	Description	Regulatory Status
p504S	13H4	RM-9130	Typically positive in malignant prostate but negative in benign lesions <sup>1</sup>	USA: ASR INT'L: RUO
Keratin 5	EP1601Y	RM-2106	Stains basal epithelia in normal prostate tissue	USA: IVD INT'L: IVD
Keratin 20	Ks20.8	MS-377	Assists with differentiating prostate from bladder cancer <sup>3</sup>	USA: IVD INT'L: IVD
Keratin 14	Polyclonal	RB-9020	Stains basal epithelia in normal prostate tissue	USA: IVD INT'L: IVD
Epithelial Membrane Antigen	MOC-31	MS-741	Positive indicator for Adenocarcinoma	USA: IVD INT'L: IVD
Ki67	SP6	RM-9106	Excellent proliferation marker	USA: IVD INT'L: IVD
PSA	EP1588Y	RM-2104	Useful for identifying cells of prostatic origin <sup>1</sup>	USA: ASR INT'L: IVD
PSAP	PASE/4LJ	MS-321	Useful for identifying cells of prostatic origin <sup>1</sup>	USA: IVD INT'L: IVD
PSMA	SP29	RM-9131	Useful for identifying cells of prostatic origin and can be combined with PSA to increase sensitivity <sup>2</sup>	USA: IVD INT'L: IVD

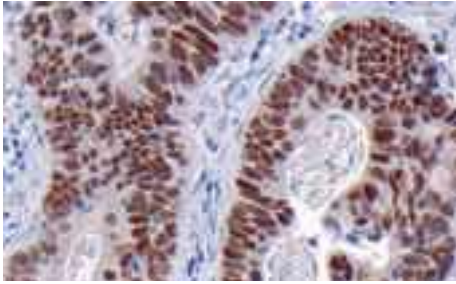
<sup>1</sup>Paner GP, Luthringer DJ, Amin MB. Best practice in diagnostic immunohistochemistry: prostate carcinoma and its mimics in needle core biopsies. Arch Pathol Lab Med. 2008 Sep;132(9):1388-96.

<sup>2</sup>Mhawech-Fauceglia P, Zhang S, Terracciano L, Sauter G, Chadhuri A, Herrmann FR, Penetrante R. Prostate-specific membrane antigen (PSMA) protein expression in normal and neoplastic tissues and its sensitivity and specificity in prostate adenocarcinoma: an immunohistochemical study using multiple tumour tissue microarray technique. Histopathology. 2007 Mar;50(4):472-83.

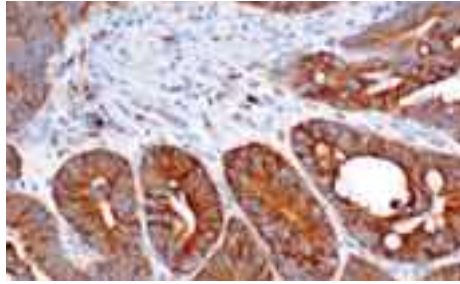
<sup>3</sup>Bassily NH, Vallorosi CJ, Akdas G, Montie JE, Rubin MA. Coordinate expression of cytokeratins 7 and 20 in prostate adenocarcinoma and bladder urothelial carcinoma. AM J Clin Pathol. 2000 Mar;113(3):383-8.

<sup>4</sup>Descriptions are for general reference only. Please consult the datasheet and current literature for more information.

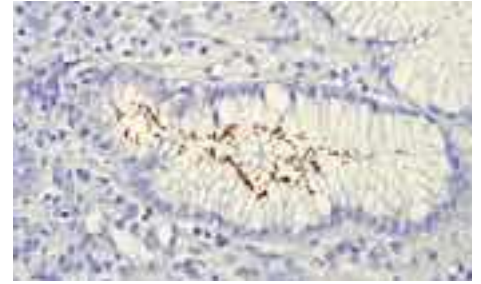
## Gastrointestinal Panel



Metastatic colon ca stained with CDX2 (RM-2116-S) and UltraVision Quanto.



Colon carcinoma stained with COX2 (MS-1898-S) and UltraVision Quanto.



H. pylori stained in stomach tissue with H. pylori (RB-9070-P) and UltraVision Quanto.

Antibody	Clone	Cat. No. (RTU)	Description	Regulatory Status
CDX2	EPR2764Y	RM-2116	Useful for differentiating gastrointestinal origin with undifferentiated tumors	USA: IVD INT'L: IVD
Pan CK	AE1/AE3	MS-343	Useful for identifying carcinoma	USA: IVD INT'L: IVD
Keratin 7	OV-TL 12/30	MS-1352	Reacts with proteins in ductal and glandular tissues	USA: IVD INT'L: IVD
Keratin 20	Ks20.8	MS-377	Reacts primarily with intestinal and gastric epithelium	USA: IVD INT'L: IVD
COX-2	SP21	RM-9121	Suggested as a poor prognostic indicator in colon carcinoma	USA: IVD INT'L: IVD
CD117	Polyclonal	RB-9038	Useful for identifying gastrointestinal stroma tumors (GIST) <sup>1</sup>	USA: IVD INT'L: IVD
Dog-1	1.1	MS-1933	Very useful for identifying gastrointestinal stroma tumors (GIST) <sup>1</sup>	USA: IVD INT'L: IVD
Dog-1	SP31	RM-9132	Very useful for identifying gastrointestinal stroma tumors (GIST) <sup>1</sup>	USA: IVD INT'L: IVD
H-pylori	Polyclonal	RB-9070	Reacts with H-pylori in the GI tract	USA: ASR INT'L: IVD
Ki-67	SP6	RM-9106	Excellent proliferation marker	USA: IVD INT'L: IVD
CA19-9	121 SLE	MS-379	Highly expressed in gastrointestinal adenocarcinomas	USA: IVD INT'L: IVD
Villin	CWWB1	MS-1499	Useful for identifying gastrointestinal adenocarcinoma	USA: IVD INT'L: IVD
Epithelial Specific Antigen	Ber-EP4	MS-1898	Useful for distinguishing adenocarcinoma from mesothelioma and hepatocellular carcinoma	USA: IVD INT'L: IVD
Her-2	SP3	RM-9103	Anti-Her2 therapies have increased survival rates in Her-2 over-expressing gastric cancer	USA: ASR INT'L: IVD

<sup>1</sup>Novelli M, Rossi S, Rodriguez-Justo M, Taniere P, Seddon B, Toffolati L, Sartor C, Hogendorn PC, Sciot R, Van Glabbeke M, Verqej J, Blay JY, Hohenberger P, Flanagan A, Del Tos AP, DOG1 and CD117 are the antibodies of choice in the diagnosis of gastrointestinal stromal tumours. *Histopathology*. 2010 Aug;57(2):259-70.

<sup>2</sup>Descriptions are for general reference only. Please consult the datasheet and current literature for more information.

## IHC Antibodies

Epredia antibodies are designed for multiple applications such as clinical research IHC and applications other than IHC, such as Western Blotting of immunoprecipitation. For the latest product offerings and updates, visit [Epredia.com](http://Epredia.com) or contact your local representative.

Concentrates are available in 1 mL (-S, -A, or -P), 0.5 mL, and 0.1 mL sizes and are ready to use in 7 mL (-R7, for use with LP detection system) or 12 mL (-RQ, for use with Quanto detection system), and are considered In Vitro Diagnostic (IVD) devices, Research Use Only (RUO) devices, or Analyte Specific Reagent (ASR, US-only). Please check the website for azide-free formats.

### Part Number Key

<b>HM</b> Hamster Monoclonal	<b>MS</b> Mouse Monoclonal	<b>MV</b> MultiVision	<b>NC</b> Negative Control	<b>RB</b> Rabbit Polyclonal	<b>RM</b> Rabbit Monoclonal	<b>SH</b> Sheep Polyclonal
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Description	REF Num	
Mucin 1 (MUC-1)	HM-1630	RUO
14.3.3 pan	MS-1504	RUO
14.3.3 sigma [1433S01]	MS-1185	RUO
Actin, Muscle Specific [HHF35]	MS-742	IVD
Actin, Muscle Specific [MSA06]	MS-1296	RUO
Actin, pan [ACTN05]	MS-1295	RUO
Actin, Skeletal Muscle [5C5.F8.C7]	MS-185	RUO
Actin, Smooth Muscle [1A4]	MS-113	IVD
Adenovirus [M58 + M73]	MS-1069	RUO
Adrenocorticotrophic Hormone (ACTH)	MS-452	IVD
ALK (Anaplastic Lymphoma Kinase) / p80 [5A4]	MS-1104	IVD
Amyloid A Component	MS-1219	RUO
Amyloid A4 / Amyloid Beta	MS-1167	RUO
Androgen Receptor [AR441]	MS-443	RUO
Bax	MS-711	RUO
Bax	MS-714	RUO
BCL-2alpha [100/D5]	MS-123	IVD
BCL-6 [BCL6.2]	MS-1114	RUO
BCL-6 [LN22]	MS-1936	IVD
BCL-XL	MS-1334	RUO
Biotin	MS-1048	RUO
c-Abl	MS-938	RUO

Description	REF Num	
c-erbB-2 / HER-2 / neu	MS-229	RUO
c-erbB-2 / HER-2 / neu	MS-302	RUO
c-erbB-2 / HER-2 / neu	MS-600	RUO
c-erbB-2 / HER-2 / neu	MS-301	RUO
c-erbB-2 / Her-2 / neu	MS-1350	RUO
c-erbB-2 / HER-2 / neu (Phospho-specific)	MS-1072	RUO
c-erbB-2 / HER-2 / neu [3B5]	MS-599	RUO
c-erbB-2 / HER-2 / neu [e2-4001 + 3B5]	MS-730	IVD/ASR
c-erbB-2 / HER-2 / neu [e2-4001]	MS-325	RUO
c-erbB-3 / HER-3 [2B5]	MS-310	RUO
c-erbB-3	MS-201	RUO
c-erbB-3 / HER-3 [H3.90.6]	MS-262	RUO
c-erbB-4 / Her-4	MS-270	RUO
c-erbB-4 / Her-4	MS-304	RUO
c-myc	MS-139	RUO
CA 125 (Ovarian Cancer Antigen)	MS-1151	IVD
CA19-9 / Sialyl Lewis a (GI Tumor Marker) [116-NS-19-9]	MS-1811	RUO
CA19-9 / Sialyl Lewis a (GI Tumor Marker) [121SLE]	MS-379	IVD
Cadherin E / E-Cadherin	MS-1862	RUO
Caldesmon, HMW	MS-1169	IVD
Calponin	MS-1168	IVD
Caspase 3 (CPP32)	MS-1121	RUO

Description	REF Num	
Caspase 8 (FLICE)	MS-1143	RUO
CD10/CALLA (Neutral Endopeptidase)	MS-728	IVD
CD105 / Endoglin / TGF-beta1/3 Receptor	MS-1290	RUO
CD106 / VCAM-1	MS-1101	RUO
CD117 / c-Kit / SCF-Receptor	MS-289	RUO
CD137 (4-1BB) [BBK-2]	MS-621	RUO
CD138	MS-1793	IVD
CD141 / Thrombomodulin	MS-1102	RUO
CD15	MS-1259	IVD
CD155 / PVR (Poliovirus Receptor)	MS-465	RUO
CD163	MS-1103	RUO
CD1a [MTB1]	MS-746	RUO
CD1a [O10]	MS-1856	IVD
CD2 [LFA-2]	MS-1074	IVD
CD20 [L26]	MS-340	IVD
CD21 [2G9]	MS-1086	IVD
CD23	MS-729	IVD
CD24 (GPI-linked surface mucin)	MS-1278	RUO
CD24 (GPI-linked surface mucin) [SN3b]	MS-1279	RUO
CD25 / IL-2Ralpha	MS-203	RUO
CD29 (Integrin Beta-1)	MS-596	RUO
CD30 (Reed-Sternberg Cell Marker)	MS-361	IVD
CD30 (Reed-Sternberg Cell Marker)	MS-1857	IVD
CD31 / PECAM-1 (Endothelial Cell Marker)	MS-353	IVD
CD34 [QBEnd/10] I	MS-363	IVD
CD35 / CR1 (Follicular Dendritic Cell Marker)	MS-336	RUO
CD36 / GPIIb / GPIV /	MS-756	RUO
CD38	MS-983	RUO
CD3epsilon (Early T-Cell Marker)	MS-1880	RUO
CD4	MS-1528	IVD
CD42b (GPIb)	MS-1174	RUO
CD43 / T-Cell Marker	MS-146	IVD
CD44 Std. / HCAM	MS-178	RUO
CD44 Std. / HCAM	MS-668	IVD
CD45 / T200 / LCA	MS-355	IVD
CD45RO (T-Cell Marker)	MS-112	IVD
CD47	MS-1302	RUO

Description	REF Num	
CD5	MS-393	IVD
CD54 / ICAM-1	MS-305	RUO
CD56 / NCAM-1	MS-1149	IVD
CD57 (Natural Killer Cell Marker)	MS-136	IVD
CD68 / Macrophage Marker	MS-397	IVD
CD68 / Macrophage Marker	MS-1808	IVD
CD71 / Transferrin Receptor	MS-1096	RUO
CD74	MS-131	IVD
CD79a / mb-1 (B Cell Marker) [HM47/A9]	MS-357	RUO
CD8	MS-457	IVD
CD81 / TAPA-1	MS-502	RUO
CD99 / MIC2 (Ewing's Sarcoma Marker)	MS-294	IVD
CD99 / MIC2 (Ewing's Sarcoma Marker)	MS-1633	RUO
CDC6	MS-867	RUO
CDC25C	MS-751	RUO
Cdh1	MS-1116	RUO
Cdk1 / p34 cdc2	MS-110	RUO
Cdk4	MS-299	RUO
Cdk5	MS-906	RUO
Cdk5	MS-1059	RUO
CDw75	MS-130	IVD
Chk2	MS-1330	RUO
Chromogranin A [LK2H10]	MS-324	IVD
Chromogranin A [LK2H10 + PHE5]	MS-382	RUO
Collagen II [2B1.5]	MS-235	RUO
Collagen II [5B2.5]	MS-234	RUO
Collagen II [6B3]	MS-306	RUO
Collagen VII	MS-444	RUO
Cyclin B1	MS-868	RUO
Cyclin B1	MS-869	RUO
Cyclin D1 / Bcl-1	MS-210	RUO
Cyclin D1 / Bcl-1	MS-211	RUO
Cyclin D2	MS-213	RUO
Cyclin D2	MS-221	RUO
Cyclin D3	MS-215	RUO
Cyclin E	MS-870	RUO
Cystic Fibrosis Transmembrane Regulator (CFTR) [L12B4]	MS-1248	RUO

Description	REF Num	
Cystic Fibrosis Transmembrane Regulator (CFTR) [M3A7]	MS-1249	RUO
Cytochrome c	MS-1192	RUO
D2-40 [D2-40]	MS-1940	IVD
Desmin (Muscle Cell Marker)	MS-376	IVD
DNA-PKcs	MS-369	RUO
DOG-1	MS-1933	IVD
DP-1 Transcription Factor	MS-1056	RUO
Epidermal Growth Factor Receptor / EGFR	MS-268	RUO
Epidermal Growth Factor Receptor / EGFR	MS-311	RUO
Epidermal Growth Factor Receptor / EGFR	MS-378	RUO
Epidermal Growth Factor Receptor / EGFR	MS-609	RUO
Epidermal Growth Factor Receptor / EGFR	MS-269	RUO
Epidermal Growth Factor Receptor / EGFR	MS-316	RUO
Epidermal Growth Factor Receptor / EGFR	MS-396	RUO
Epidermal Growth Factor Receptor / EGFR	MS-665	RUO
Epithelial Membrane Antigen /EMA	MS-348	IVD
Epithelial Membrane Antigen /EMA	MS-741	IVD
Epithelial Specific Antigen	MS-675	RUO
Epithelial Specific Antigen (EMA)	MS-181	RUO
Epithelial Specific Antigen (EMAb-7) [MOC-31] Mouse	MS-1825	RUO
Epithelial Specific Antigen (Ep-CAM)	MS-144	IVD
Epithelial Specific Antigen (Ep-CAM)	MS-1898	IVD
Epstein-Barr Virus / LMP	MS-1458	IVD/ASR
Estrogen Receptor	MS-391	RUO
Estrogen Receptor [1D5]	MS-354	IVD/ASR
Estrogen Receptor [1D5+6F11]	MS-750	IVD/ASR
Ezrin / p81 / 80K / Cytovillin	MS-661	RUO
Factor VIII Related Antigen / von Willebrand Factor	MS-722	IVD
Factor XIII A	MS-1237	IVD
Fascin	MS-1112	IVD
Fibrillin 1	MS-231	RUO
Filaggrin	MS-449	RUO
Fibronectin	MS-1351	RUO
Filamin	MS-1211	RUO
Follicle Stimulating Hormone (FSH)	MS-1449	IVD
GCDFP-15 (Gross Cystic Disease Fluid Protein-15) Fluid Protein-15)	MS-1170	IVD
GFAP / Glial Fibrillary Acidic Protein	MS-1376	IVD

Description	REF Num	
GLUT-1 [SPM498]	MS-10637	IVD
Glycophorin A	MS-1843	IVD
Glypican-3	MS-1939	RUO
GnRH Receptor / LH-RH Receptor (GNRH03)	MS-1139	RUO
Granzyme B	MS-1157	IVD
Growth Hormone, Human / hGH	MS-1328	RUO
H1 [4C9C7]	MS-1941	IVD
HDJ-2 / DNAJ	MS-225	RUO
Heat Shock Protein 70 (HSP70)	MS-482	RUO
Heregulin / NDF / GGF / Neureg	MS-272	RUO
Hepatitis B Virus Surface Antigen (HBVsAg)	MS-314	RUO/ASR
Hepatocyte	MS-1810	IVD
Hepatocyte Growth Factor	MS-651	RUO
Hepatocyte Growth Factor	MS-775	RUO
Human Chorionic Gonadotropin (HCG)	MS-1065	RUO
Human Papilloma Virus (HPV)[K1H8]	MS-1826	IVD/ASR
Human Sodium Iodide Symporter(hNIS)	MS-1653	RUO
IGF-1R (alpha-Subunit)	MS-641	RUO
IGF-1R (alpha-Subunit)	MS-644	RUO
Insulin	MS-1378	RUO
Insulin Receptor (Alpha-Subunit)	MS-631	RUO
Insulin Receptor (Alpha-Subunit)	MS-632	RUO
Insulin Receptor (Alpha-Subunit)	MS-633	RUO
Insulin Receptor (Beta-Subunit)	MS-635	RUO
Insulin Receptor (Beta-Subunit)	MS-636	RUO
Interferon-a (I) / IFN-a (I)	MS-574	RUO
Involucrin	MS-126	RUO
Kappa Light Chain	MS-143	IVD
Keratin 10	MS-611	IVD
Keratin 14	MS-115	RUO
Keratin 15	MS-1068	RUO
Keratin 17	MS-489	IVD
Keratin 18	MS-142	IVD
Keratin 19	MS-198	IVD
Keratin 19	MS-1902	RUO
Keratin 19	MS-1671	RUO
Keratin 20	MS-377	IVD

Description	REF Num	
Keratin 5	MS-1896	IVD
Keratin 5 / 6	MS-1814	IVD
Keratin 16	MS-620	RUO
Keratin 7	MS-1352	IVD
Keratin 8	MS-997	IVD
Keratin 8 / 18	MS-743	IVD
Keratin 8 / 18	MS-1603	IVD
Keratin, HMW	MS-1447	IVD
Keratin, Low Molecular Weight	MS-341	IVD
Keratin, Multi	MS-149	RUO
Keratin, Pan	MS-356	RUO
Keratin, Pan	MS-343	IVD
Ku (p70)	MS-329	RUO
Ku (p70 / p80)	MS-286	RUO
Kuy (p80)	MS-285	RUO
L1 Cell Adhesion Molecule	MS-770	RUO
Lambda Light Chain	MS-180	IVD
Laminin Receptor	MS-259	RUO
LCK p56 lck LCK p56 lck	MS-164	RUO
LRP / MVP (Major Vault Protein)	MS-664	RUO
Luteinizing Hormone, Human (LH)	MS-1448	IVD
Macrophage / L1 Protein / Calprotectin	MS-148	IVD
Mammaglobin [304-1A5]	MS-1919	RUO
MAP 2a,b (Microtubule-Associated Protein)	MS-249	RUO
MAP 2a,b,c (Microtubule-Associated Protein)	MS-250	IVD
MART-1 / Melan-A	MS-612	RUO
MART-1 / Melan-A	MS-799	IVD
MART-1 / Melan-A (Cocktail)	MS-716	RUO
Mast Cell Chymase	MS-1217	RUO
Mast Cell Tryptase	MS-1216	RUO
Melanoma (gp100)	MS-364	IVD
Melanoma Marker, Pan	MS-939	RUO
Mesothelin	MS-1320	IVD
Mesothelioma	MS-1494	IVD
MGMT (O-methylguanine-DNA methyltransferase)	MS-470	RUO
MHC I (HLA-A, B, C)	MS-1218	RUO

Description	REF Num	
MHC I (HLA-A, B, C)	MS-557	RUO
MHC II (HLA-DR)	MS-133	RUO
Microglobulin Beta-2	MS-440	RUO
Microphthalmia (TranscriptionFactor) (MITF)	MS-772	RUO
Mitochondria	MS-1372	RUO
MMP-10 (Stromelysin-2)	MS-822	RUO
MMP-11 (Stromelysin-3)	MS-1035	RUO
MMP-13 (Collagenase IV) M	MS-825	RUO
MMP-2 (72kDa Collagenase IV)	MS-567	RUO
MMP-2 (72kDa Collagenase IV)	MS-804	RUO
MMP-3 (Stromelysin-1)	MS-809	RUO
MMP-9 (92kDa Collagenase IV)	MS-816	RUO
MMP-9 (92kDa Collagenase IC) M	MS-817	RUO
MSH2 (Mismatch Repair Protein 2)	MS-1498	IVD
Mucin 2 (MUC-2)	MS-1037	IVD
Mucin 2 (MUC-2)	MS-1729	RUO
Mucin 3 (MUC-3)	MS-1734	RUO
Mucin 5AC (MUC-5AC) / Gastric Mucin	MS-145	IVD
MyoD1	MS-273	RUO
MyoD1	MS-278	RUO
Myogenin	MS-1113	RUO
Myosin, Skeletal Muscle	MS-1236	RUO
Myosin, Smooth Muscle Heavy Ch	MS-1348	RUO
Neurofilament (200kDa & 68kDa)	MS-359	IVD
Neurotrophin Receptor / NGF-Receptor (p75 NGFR)	MS-394	RUO
Notch-1	MS-1339	RUO
NY-BR-1	MS-1932	IVD
p130 Cas	MS-855	RUO
p14 ARF / p16Beta	MS-850	RUO
p170 / p-Glycoprotein / MDR	MS-660	RUO
p18 INK4c	MS-858	RUO
p21 WAF1	MS-230	IVD
p21 WAF1	MS-454	RUO
p21 WAF1	MS-891	RUO
p300 / CBP (CREB-Binding Protein)	MS-586	RUO
p53	MS-104	RUO

Description	REF Num	
p53	MS-182	RUO
p53	MS-186	IVD
p53	MS-187	RUO
p53	MS-738	IVD
p57 Kip2	MS-897	RUO
p57 Kip2	MS-1062	IVD
p73alpha/Beta	MS-762	RUO
Paxillin	MS-404	RUO
PCNA (Proliferating Cell Nuclear Antigen)	MS-106	RUO
Pds1	MS-1511	RUO
Perforin	MS-1834	IVD
Placental Alk. Phosphatase (PLAP)	MS-208	RUO
Placental Alk. Phosphatase(PLAP)	MS-734	IVD
Plastin-L	MS-1326	RUO
Progesterone MTO	MS-1040	RUO
Progesterone Receptor	MS-1882	RUO
Progesterone Receptor [hPRa 2]	MS-192	RUO
Progesterone Receptor [hPRa 2+hPR 3]	MS-298	IVD/ASR
Progesterone Receptor [hPRa 7]	MS-197	RUO
Prohibitin (Mitochondrial Marker)	MS-261	RUO
Prolactin	MS-1362	RUO
Prostate Specific Acid Phosphatase (PSAP)	MS-321	IVD
PTEN / MMAC1	MS-1601	RUO
RAD51	MS-988	RUO
Renal Cell Carcinoma Marker (gp200)	MS-409	IVD
Retinoblastoma (Rb)	MS-107	RUO
Retinoblastoma (Rb)	MS-1883	RUO
Rhodopsin (Opsin)	MS-1233	RUO
S100 Protein	MS-296	IVD
Serotonin	MS-1431	IVD
SF-1 (NR5A1,AD4BP) [N1665]	MS-1946	RUO
SHP-1	MS-1190	
Smith Antigen (sm)	MS-450	RUO
SREBP-1 (Sterol Regulatory Element Binding Protein-1)	MS-1207	RUO
Surfactant Protein B (Precursor)	MS-704	RUO
SV40 Large T Antigen	MS-1832	RUO

Description	REF Num	
Synuclein	MS-1572	RUO
TAG-72 / CA 72-4 [B72.3]	MS-138	IVD
Tartrate Resistant Acid Phosphatase (TRAP)Ab-1	MS-1768	IVD
TAU	MS-247	RUO
TdT / Terminal Deoxyribonucleotidyl Transferase	MS-1105	IVD
Thrombospondin (TSP)	MS-1066	RUO
Thrombospondin (TSP)	MS-418	RUO
Thrombospondin (TSP)	MS-420	RUO
Thrombospondin (TSP)	MS-421	RUO
Thymidine Phosphorylase / PD-ECGF	MS-499	RUO
Thyroid Transcription Factor-1 (TTF-1)	MS-699	IVD
TIMP 2	MS-571	RUO
TIMP-1	MS-608	RUO
TIMP-2	MS-1485	RUO
Topoisomerase II alpha	MS-1819	IVD
Transforming Growth Factor alpha (TGF alpha)	MS-670	RUO
Transglutaminase II	MS-224	RUO
Troponin T, Cardiac Isoform	MS-295	IVD
Tubulin-Alpha	MS-581	RUO
Tubulin-Beta	MS-1226	RUO
Tyrosinase	MS-800	IVD
Vascular Endothelial Growth Factor (VEGF)	MS-1467	RUO
Vascular Endothelial Growth Factor (VEGF)	MS-350	RUO
Villin	MS-1499	IVD
Vimentin	MS-129	IVD
Vinculin	MS-1209	RUO
von Hippel-Lindau (cHL) Protein	MS-690	RUO
XRCC1 (X-Ray Repair Cross Complementing Protein1)	MS-434	RUO
XRCC1 (X-Ray Repair Cross Comp)	MS-1393	RUO
ZAP-70 [2F3.2]	MS-1911	IVD
MultiVision CD3 epsilon [F7.2.38] + Ki-67 [SP6]	MV-2005	IVD
Vimentin-gp100	MV-2004	IVD
Negative Control for Mouse	NC-748	RUO
Negative Control for Mouse	NC-1391	RUO
Negative Control for Rabbit	NC-100	RUO

Description	REF Num	
Actin, Smooth Muscle	RB-9010	IVD
Alpha Fetoprotein (AFP)	RB-9064	IVD
Alpha-1-Antitrypsin	RB-367	RUO
Amphiregulin	RB-258	RUO
Amyloid Precursor Protein (APP)	RB-9023	IVD
c-erbB-2 / HER-2 / neu	RB-103	RUO
C1q Complement, Polyclonal FITC Labeled	RB-1926	RUO
C4 Complement, Polyclonal FITC Labeled	RB-1927	RUO
Calretinin	RB-9002	IVD
Caspase 9 / LAP6	RB-1205	RUO
Catenin, beta	RB-1491	RUO
Catenin, beta	RB-9035	IVD
CD117 / c-Kit / SCF-Receptor	RB-9038	IVD
CD20	RB-9013	IVD
CD31 / PECAM-1 (Endothelial Cell Marker)	RB-10333	RUO
CD3epsilon (Early T-Cell Marker)	RB-360	IVD
Chromogranin A	RB-9003	RUO
Desmin (Muscle Cell Marker)	RB-9014	IVD
Dystrophin	RB-9024	IVD
Estrogen Receptor	RB-1493	RUO
Estrogen Receptor	RB-1521	RUO
Factor VIII Related Antigen / von Willebrand Factor	RB-281	IVD
Factor XIII A	RB-1464	RUO
Fibrinogen, Polyclonal FITC Labeled	RB-1924	RUO
Flk-1 / KDR / VEGFR2	RB-1526	RUO
Flt-1 / VEGFR1	RB-1527	RUO
Gastrin	RB-1459	IVD
GFAP / Glial Fibrillary Acidic Protein	RB-087	RUO
GLUT-1	RB-9052	IVD
Heat Shock Protein 90alpha / hsp90alpha (HSP86)	RB-119	RUO
Helicobacter pylori	RB-9070	IVD/ASR
IgA (alpha-Heavy Chain)	RB-1433	IVD
IgD (delta-Heavy Chain)	RB-1436	IVD
IgE (epsilon-Heavy Chain)	RB-1435	IVD

Description	REF Num	
IgG (gamma-Heavy Chain)	RB-1432	IVD
Immunoglobulin M (IgM), Polyclonal FITC Labeled	RB-1922	IVD
Kappa Light Chain	RB-333	IVD
Kappa, Polyclonal FITC Labeled	RB-1929	RUO
Keratin 14	RB-9020	IVD
Ki-67	RB-1510	RUO
Ki-67	RB-9043	RUO
Lambda Light Chain	RB-334	IVD
Lambda, Polyclonal FITC Labeled	RB-1930	RUO
Lysozyme / Muramidase	RB-372	IVD
MMP-1 (Collagenase-1)	RB-1536	RUO
Mucin 1 (MUC-1)	RB-9222	IVD
Myelin Basic Protein	RB-1460	IVD
Myeloperoxidase (MPO)	RB-373	IVD
Nitric Oxide Synthase, inducib	RB-1605	RUO
NF kappa B / p65 (Rel A)	RB-1638	RUO
Pax-5	RB-9406	IVD
PDGFR, alpha	RB-1691	RUO
PDGFR, alpha	RB-9027	RUO
Placental Lactogen (hPL)	RB-9067	IVD
Protein Gene Product 9.5	RB-9202	IVD
ROC1	RB-069	RUO
Synaptophysin	RB-1461	RUO
Ubiquitin	RB-9203	RUO
Vascular Endothelial Growth Factor (VEGF)	RB-9031	IVD/ASR
Wilm's Tumor Protein (WT1)	RB-9267	RUO
S100 A6	RB-9018	IVD
S100 Protein	RB-044	RUO
Survivin	RB-9245	RUO
Synaptophysin	RB-1461	RUO
Synuclein alpha	RB-9026	IVD
Ubiquitin	RB-9203	RUO
Vascular Endothelial Growth Factor (VEGF)	RB-9031	IVD/ASR
Wilm's Tumor Protein (WT1)	RB-9267	RUO



Description	REF Num	
ALK (Anaplastic Lymphoma Kinase) / p80 [SP8]	RM-9108	IVD
Beta-catenin	RM-2101	IVD
c-erbB-2 / HER-2 / neu [SP3]	RM-9103	IVD/ASR
c-erbB2 / HER-2 / neu [EP1045Y]	RM-2112	IVD/ASR
Calcitonin	RM-9117	IVD
Calretinin [SP13]	RM-9113	IVD
CD23 [SP23]	RM-9123	IVD
CD3 (Early T Cell Marker)	RM-9107	IVD
CD3epsilon	RM-2109	IVD
CD5 [SP19]	RM-9119	IVD
CD7 [EPR4242]	RM-2122	IVD
CD79a / mb-1 (B-Cell Marker) [SP18]	RM-9118	IVD
CD8 [SP16]	RM-9116	IVD
CDX2 [EPR2764Y]	RM-2116	IVD
Chromogranin A [SP12]	RM-9112	IVD
COX2	RM-9121	IVD
Cyclin D1 / Bcl-1 [SP4]	RM-9104	IVD
Cyclin D1 [EPR2241IHC]	RM-2113	IVD
DOG-1 [SP31]	RM-9132	IVD
E-Cadherin	RM-2100	IVD
Epidermal Growth Factor Receptor (EGFR) [EP38Y]	RM-2111	IVD
Estrogen Receptor [SP1]	RM-9101	IVD
Keratin 18	RM-2108	IVD
Keratin 5	RM-2106	IVD

Description	REF Num	
Keratin 8	RM-2107	IVD
Ki-67 [SP6]	RM-9106	IVD
Napsin-A [EPR6252]	RM-2121	IVD
p504S/ AMACR [13H4]	RM-9130	RUO/ ASR
p53	RM-2103	IVD
p53 [SP5]	RM-9105	IVD
Pax-5	RM-9133	IVD
Placental Alk. Phosphatase (PLAP)	RM-9115	IVD
PMS2 [EPR3947]	RM-2120	IVD
Progesterone Receptor [SP2]	RM-9102	IVD
Progesterone Receptor [YR85]	RM-2114	IVD/ASR
Prostate Specific Membrane Antigen (PSMA) [SP29]	RM-9131	IVD
PSA [EP1588Y]	RM-2104	RUO/ASR
Synaptophysin (Neuroendocrine Marker)	RM-9111	IVD
Vimentin	RM-9120	IVD
Heparan Sulfate Proteoglycan	RT-794	RUO
Laminin B2 / Beta 1	RT-796	RUO
Laminin B2 / gamma1	RT-795	RUO
Vitamin D Receptor (VDR)	RT-200	RUO
C3c Complement, Polyclonal FITC Labeled C Labeled	SH-1923	RUO
Immunoglobulin A (IgG), Polyclonal FITC Labeled	SH-1920	RUO
Immunoglobulin G (IgG), Polyclonal FITC Labeled	SH-1921	RUO

## Rabbit Monoclonal Antibodies

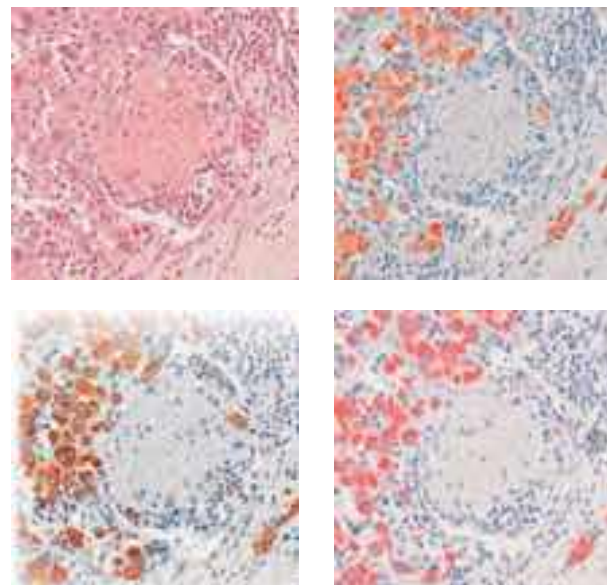
Description	Clone	Order Number	Use
E-Cadherin	EP700Y	RM-2100	IVD
Beta-Catenin	E247	RM-2101	IVD
p53	Y5	RM-2103	IVD
PSA	EP1588Y	RM-2104	RUO/ASR
Cytokeratin 5	EP1601Y	RM-2106	IVD
Cytokeratin 8	EP1628Y	RM-2107	IVD
Cytokeratin 18	E431-1	RM-2108	IVD
CD3epsilon	EP449E	RM-2109	IVD
Epidermal Growth Factor Receptor	EP38Y	Rm-2111	IVD
c-erbB2 / HER-2 / neu	EP1045Y	RM-2112	IVD/ASR
Progesterone Receptor	YR85	RM-2114	IVD/ASR
CD20	EP459Y	RM-2115	IVD
CDX2	EPR2764Y	RM-2116	IVD
MSH6	EPR3945	RM-9119	IVD
PMS2	EPR3947	RM-2120	IVD
Napsin-A	EPR6252	RM-2121	IVD
CD7	EPR4242	RM-2122	IVD
Estrogen Receptor	SP1	RM-9101	IVD
Progesterone Receptor	SP2	RM-9102	IVD
c-erbB-2 / HER-2 / neu	SP3	RM-9103	IVD/ASR
Cyclin D1 / Bcl-1	SP4	RM-9104	IVD
p53	SP5	RM-9105	IVD
Ki-67	SP6	RM-9106	IVD
CD3 (Early T Cell Marker)	SP7	RM-9107	IVD
ALK (Anaplastic Lymphoma Kinase)	SP8	RM-9108	IVD
Synaophysin (Neuroendocrine Marker)	SP11	RM-9111	IVD
Chromogranin A	SP12	RM-9112	IVD
Calretinin	SP13	RM-9113	IVD
Placental Alk. Phosphatase (PLAP)	SP15	RM-9115	IVD
CD8	SP16	RM-9116	IVD
Calcitonin	SP17	RM-9117	IVD
CD79a / mb-1 (B-cell marker)	SP18	RM-9118	IVD
CD5	SP19	RM-9119	IVD
Vimentin	SP20	RM-9120	IVD
COX2	SP21	RM-9121	IVD
p504S / AMACR	13H4	RM-9130	RUO/ASR
Prostate Specific Membrane Antigen (PMSA)	SP29	RM-9131	IVD
DOG-1	SP31	RM-9132	IVD
Pax-5	SP34	RM-9133	IVD

Rabbit monoclonal antibodies combine the benefits of outstanding antigen detection in the rabbit immune system with the specificity and consistency of monoclonal antibodies, making them one of the best antibodies around<sup>1</sup>.

Antibodies produced in rabbits have a greater affinity than antibodies taken from mice. New cloning technologies allow the production of highly specific and sensitive antibodies from rabbits.

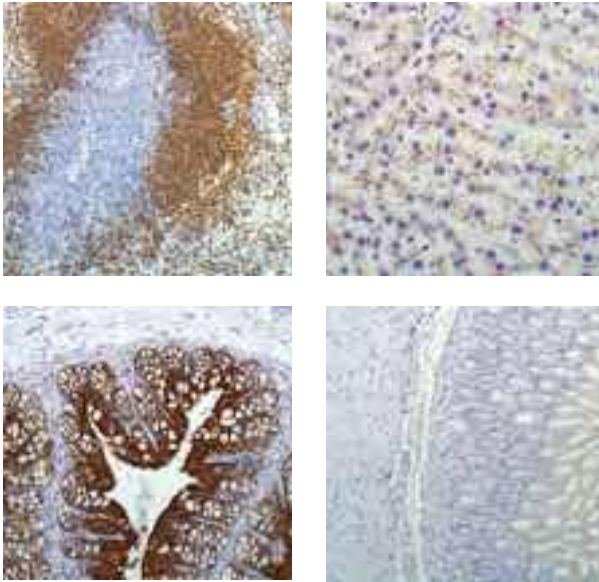
At the same time, the rabbit immune system generates antibody diversity and optimizes the affinity of the antibodies generated using mechanisms which are considerably more efficient than in mice or other rodents. This means that many antigens which are not immunogenic in mice or rats do trigger a response in rabbits.

Studies show rabbit monoclonal antibodies are more sensitive and specific than other available markers<sup>1</sup>.



<sup>1</sup>Rossi S, et al. (2005). Rabbit Monoclonal Antibodies: A Comparative Study Between a Novel Category of Immunoreagents and the Corresponding Mouse Monoclonal Antibodies. *Am. J. Clin. Pathol.* 124:295-302. Doi: 10.1309/NR8HN08GDPVEMU08.

## Mouse on Mouse HRP Detection System



Historically immunohistochemistry (IHC) staining with mouse antibodies on mouse tissue has been a challenge. The results were compromised by high levels of undesirable background or weak signal from interactions between the detection system and mouse tissues. The EpreDia UltraVision Quanto Mouse on Mouse HRP Detection System eliminates these challenges so laboratories can routinely produce optimal results.

### Suggested Primary Antibodies

Mouse antibodies from any source are compatible with the UltraVision Quanto Mouse on Mouse Detection System. Below are a few antibodies and suggested protocols that you may find useful for your research

Description	Qty.	Order Number	Use
Quanto Mouse on Mouse	60 mL	TL-060-QHDM	RUO
DAB Quanto	60 mL	TA-060-QHDX	IVD
Antibody Diluent OP Quanto	125 mL	TA-125-ADQ	IVD

Description	Clone	Order Number	Antigen Retrieval*	Incubation Time
CD4	4B12	MS-1528	Dewax and HIER Buffer M (EDTA-based) 20 minutes 98c	30 min
CD7a	JCB117	MS-1171	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
CD8	C8/144B	MS-457	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
Cdk1	A17.1.1	MS-110	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
CK7	OV-TL 12/30	MS-1352	Dewax and HIER Buffer M (EDTA-based) 20 minutes 98c	20 min
Cytochrome C	7H8.2C12	MS-1192	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
Hepatocyte	OCH1E5	MS-1810	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
P300/CBP	NM11	MS-586	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
PCNA	PC10	MS-106	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
TFF1	8G7G3/1	MS-699	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20 min
Villin	CWWB1	MS-1499	Dewax and HIER Buffer L (Citrate-based) 20 minutes 98c	20min

\*Please reference the product Instruction For Use for updates.

## IHC Detection Systems

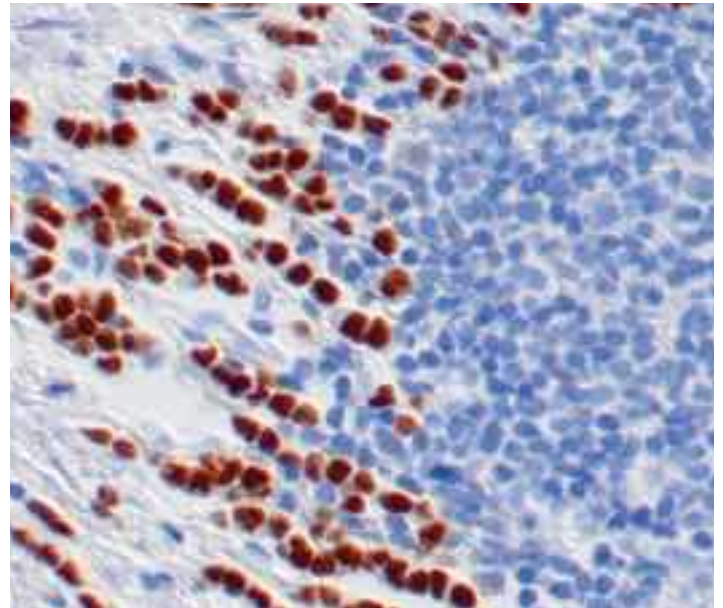
### Which detection system is best for your laboratory?

To complement our robust antibody portfolio we offer an array of detection technologies designed to meet the needs of the clinical and research market. The following guide is designed to help you determine the best kit for your application. See the following detection system packages for detailed information on each detection kit. When in doubt you may contact your local representative or our technical service team at [lab.reagents@thermofisher.com](mailto:lab.reagents@thermofisher.com).

### UltraVision Quanto Detection Kit (IVD)

The UltraVision Quanto Detection System utilizes innovative micropolymer technology that enhances sensitivity while reducing costs and turnaround time<sup>2</sup>. This system is optimized for mouse and rabbit antibodies on human specimens and is ideal for routine clinical testing.

Description	REF Num	Use
UltraVision Quanto Detection System AP 60 mL	TL-060-QAL	IVD
UltraVision Quanto Detection System HRP DAB 60 mL	TL-060-QHD	IVD
UltraVision Quanto AP 1 L	TL-999-QAL	IVD
UltraVision Quanto Complete Kit 125 mL	TL-125-QCK	IVD
UltraVision Quanto Complete Kit 60 mL	TL-060-QCK	IVD
UltraVision Quanto Detection System AP 125 mL	TL-125-QAL	IVD
UltraVision Quanto Detection System HRP 125 mL	TL-125-QHL	IVD
UltraVision Quanto Detection System HRP 60 mL	TL-060-QHL	IVD
UltraVision Quanto Detection System HRP DAB 125 mL	TL-125-QHD	IVD
UltraVision Quanto Detection System HRP DAB Sample 15 mL	TL-015-QHD	IVD
UltraVision Quanto HRP 1LTL-999-QPB/QPH and TA-999-PBQ	TL-999-QHL	IVD
UltraVision Quanto HRP DAB 1 L	TL-999-QHD	IVD



<sup>2</sup>NoriQC Review of Technical Test Approach Montreal 2010 <http://www.nordiqc.org/seminars/Nielsen-Montreal-08-July-10.pdf>

## IHC Detection Systems

### UltraVision Labeled Polymer (LP) (IVD)

UltraVision LP is the predecessor of UltraVision Quanto. UltraVision LP works well in clinical applications and produces strong, consistent results.

Note: UltraVision LP enhances mouse antibodies but does not enhance rabbit antibodies.

Description	REF Num	Use
Kit PV HRP polymer 1LTL-999-PB/PH and TA-999-PBQ	TL-999-HL	IVD
UltraVision LP HRP Polymer & DAB Chromogen 15 mL	TL-015-HD	IVD
UltraVision LP HRP Polymer & DAB Chromogen 60 mL	TL-060-HD	IVD
UltraVision LP HRP Polymer & DAB Chromogen 125 mL	TL-125-HD	IVD
UltraVision LP Large Vol AP Polymer (RTU) 60 mL	TL-060-AL	IVD
UltraVision LP Large Vol AP Polymer (RTU) 125 mL	TL-125-AL	IVD
UltraVision LP Large Vol HRP Polymer (RTU) 60 mL	TL-060-HL	IVD
UltraVision LP Large Vol HRP Polymer (RTU) 125 mL	TL-125-HL	IVD

## IHC Detection Systems

### UltraVision ONE (IVD)

UltraVision ONE offers the protocol with the least number of steps and is ideal for clinical applications with frozen section or where few steps are ideal.

Description	REF Num	
UltraVision ONE Large Vol, HRP Polymer (RTU) 125 mL	TL-125-HLJ	IVD
UltraVision ONE Large Vol, AP Polymer (RTU) 125 mL	TL-125-ALJ	IVD
UltraVision ONE, AP Polymer & Fast Red Chromogen 15 mL	TL-015-AFJ	IVD

\*Not available for purchase in EMEA

### Multivision (IVD)

The Multivision system is designed for visualizing two antigens on a single slide.

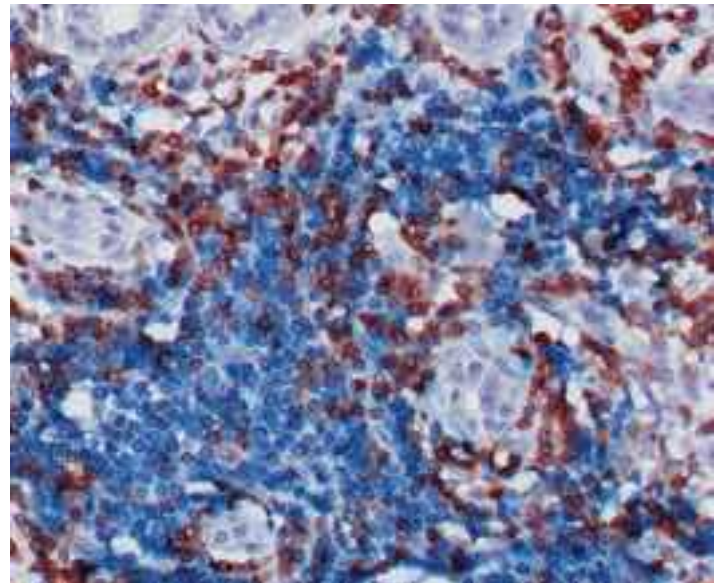
### Epredia UltraVision and UltraVision Plus (IVD)

Robust Biotin and Streptavidin System

### Epredia UltraVision LP Value (IVD)

Similar technology to UltraVision LP at a more affordable price

Description	REF Num	
MV Polymer/ anti-mouse/ AP+anti Rabbit/HRP 12 mL	TL-012-MARH	IVD
MV Polymer/ anti-mouse/ HRP+anti Rabbit/AP 12 mL	TL-012-MHRA	IVD





## IHC Ancillary Products

Description	REF Num	
Antibody Diluent OP Quanto	TA-125-ADQ	IVD
Tween 20 (Polyoxyethelenesorbitan Monolaurate) 125 mL	TA-125-TW	RUO
UltraVision DAB Away 250 mL	TA-250-DA	IVD
UltraVision Protein Blk 125 ml	TA-125-PBQ	IVD
UltraVision Protein Block 60 ml	TA-060-PBQ	IVD
UV Hydrogen Peroxide Block 1 L	TA-999-H2O2Q	IVD
UV Hydrogen Peroxide Block 125 ml	TA-125-H2O2Q	IVD
UV Hydrogen Peroxide Block 60 ml	TA-060-H2O2Q	IVD
FITC Protein Blocking Agent (PBA) 6 mL	TA-006-PBA	IVD
Phosphate Buffered Saline (10X) 10 mL*	AP-9009-10	IVD
Phosphate Buffered Saline and Tween 20 Large Vol (20X)	TA-999-PT	IVD
Tris Buffer Saline and Tween 20 Large Vol (20X) 999 mL	TA-999-TT	IVD

\*Not available for purchase in EMEA

Description	REF Num	
Large Vol Phosphate Buffered Saline (25X) 125 mL	TA-125-PB	IVD
Large Vol Phosphate Buffered Saline and Tween 20 (20X) 125 mL	TA-125-PT	IVD
Large Vol Tris Buffer Saline and Tween 20 (20X) 125 mL	TA-125-TT	IVD
Large Vol Tris Buffered Saline (25X) 125 mL	TA-125-TB	IVD
Mayer's Hematoxylin 125 mL	TA-125-MH	IVD
Mayer's Hematoxylin 60 mL	TA-060-MH	IVD
PermaFluor Aqueous Mounting Medium 30 mL	TA-030-FM	IVD
PermaFluor Aqueous Mounting Medium 6 mL	TA-006-FM	IVD
SI Prep, Aqua-Mount 125 mL	TA-125-AM	IVD

# Archiving and Storage

reliability  
through  
automation





## Innovative Storage and Retrieval

Arcos™ tissue block and new Arcos SL™ slide management system is designed to enhance traceability, minimize errors, increase productivity and keep your laboratory's resources focused on what matters most – positive patient outcomes. EpreDia also offers manual storage options for your laboratory.

### Lost Slides a Thing of the Past

- System maintains a complete record of all samples
- Samples can be easily accessed and searched
- Check-in/Check-out controls provide visibility to who checked it out, when it's due back, and why it was needed

### Increased Accuracy

- Reduces the risk of errors and cassette or slide loss endemic to the hand-sorting process
- After check-out, samples can be returned to any tray; the database is automatically updated

### Reliable Retrieval

- Find slides quickly and easily
- Select the slide or cassette you need and the Arcos system will tell you where the tray is located in the archive and the exact position of the item within the tray

### Classic Storage

- With manual storage options from heavy-duty steel cabinets to customizable color-coded filing cabinets, there are solutions for every lab's budget and workflow needs

### The Total Solution

- Get peace of mind with EpreDia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory





## Arcos Block Management System

### Misplaced blocks – a thing of the past

- The Arcos block management system aids in maintaining a proper chain of custody by retaining a complete record of all blocks in storage that can be easily accessed and searched at any time
- Track and control the movement of every block – who checked it out, why it was needed and when it's due back
- The Arcos system alerts you immediately when a block is out of the system longer than anticipated

### Increased accuracy

- The Arcos system helps avoid errors endemic to the hand-sorting process
- After check-out, blocks can be returned to any tray. When scanned, the database is automatically updated

### Database integrity

- Redundant protection: your database is automatically updated on Flash storage within the Arcos scanner. The unit can be configured to automatically archive your database to your choice of secure storage – hard drive, external network- or cloud-based
- Control individual user database access and modification permissions

### Archived in an instant

- Simply place your blocks in the Arcos tray right at the microtome. At the end of the day, push the tray into the scanner. In about two minutes, the Arcos system will scan, photograph and record the position of every block in the tray. Enter the storage location for the tray and your database will be updated immediately
- No more time consuming manual sorting; scan hundreds of blocks at once

### Reliable retrieval

- Find tissue blocks quickly and easily. Select the block needed and the Arcos system will tell you where the tray is located in your archive and the exact position of the block within the tray
- Time to return the block to storage? Simply place it in the next tray to be scanned, the Arcos system will automatically update your database to reflect its new position

### Physical Specifications

Dimensions (D x W x H):  
22.44 x 16.14 x 9.84 in.  
(57 x 41 x 25 cm)

Weight:  
57.32 lbs (26 kg) (scanner only)

Power requirements:  
100 - 240 VA, 0.8A (50 - 60 Hz)

### Includes:

Scanner, PC with software,  
handheld PDA, and Zebra Printer

## Big savings

- The Arcos system has been shown to save of man-hours in busy laboratories – freeing up staff to focus on revenue-generating tasks
- The system makes it quick and easy to track block retrievals eligible for CPT Code 88363 reimbursement

## A natural fit for your workflow

- The compact form-factor of the scanner is designed to fit neatly within space-challenged laboratories



Description	Order Number
Arcos Block Management System (Includes scanner, PC with software, PDA, and Zebra Printer)	B84700001

Accessories	Order Number
Arcos trays (pack of 6, 240 blocks / tray)	B84710001
Stackable cabinet (fits 18 trays)	B84710007S
Stackable cabinet (fits 24 trays)	B84710008S
Wheels for stackable cabinets (pack of 4)	B84710009
Cardboard sleeve for tray storage (pack of 25)	B84710005
Hook for removing blocks from tray	B84710006



## Arcos SL Slide Management System



### Simple Slide Storage

- The Arcos SL slide management system is designed to give laboratories a simple way to archive slide specimens while providing a highly secure chain of custody
- Simply place slides in the Arcos SL slide tray and slide it into the scanner. The scanner will read each slide's barcode and keep track of exactly where each slide is located in storage

### Efficiency at its Finest

- Reads 240 slides at a time by scanning each slide's unique identifier
- Associates each slide to a specific tray position and storage location within your laboratory's archives for easy retrieval
- Put slides back in any position and the scanner will update the slide's location in the software system

### Database integrity

- Redundant protection: your database is automatically updated on Flash storage within the Arcos SL scanner. The unit can be configured to automatically archive your database to your choice of secure storage – hard drive, external network- or cloud-based
- Control individual user database access and modification permissions

### Reliable retrieval

- Find slides quickly and easily. Select the slide needed and the Arcos SL system will tell you where the tray is located in your archive, and the exact position of the slide within the tray

### Protecting Precious Specimens

- Arcos SL trays hold slides securely in a shingled manner, allowing maximum visibility to each slide's tab while maintaining a separation between the slides to avoid damage and cross contamination

### Smart Storage

- When used with the Arcos SL slide management system, the storage trays make archival and retrieval easy. Each tray features a unique serial number and easy-to-navigate XY coordinate guides. Slides are neatly arranged and simple to identify and locate

### Physical Specifications

Dimensions (D x W x H):  
17.85 x 28.35 x 13.27 in.  
(45.35 x 72 x 33.7 cm)

Weight:  
48.5 lbs (22 kg)

Power requirements:  
100 - 240 VAC (~) +/-10% / 0.7A  
(50 - 60 Hz)

### Includes:

Scanner, PC with software,  
handheld PDA, and Zebra Printer

Description	Order Number
Arcos SL Slide Management System (Includes scanner, PC with software, PDA, and Zebra Printer)	A85300001

Accessories	Order Number
Arcos SL trays (pack of 20, 240 slides per tray)	A85310009
Stackable cabinet (empty, fits 40 trays)	A85310010
Stackable cabinet (includes 40 trays)	A85310011
Four cardboard tray storage box (pack of 25)	A85310012
Tweezers for removing slides from tray	A85310013



## Steel Storage Cabinets

High-quality steel cabinets are ideal for the safe storage of microscope slides, slide filing wallets, processing cassettes, blocks and transparencies and are available in two sizes.

- The standard size for floor stacking is available in three colors, blue, green and two-tone gray
- The MINI range, which is ideal for bench top use, is half the depth of the standard cabinet and is only available in two-tone gray
- The Colorstack™ cabinets are ideal for color-coding your slides as they are available with several different color drawer fronts
- All cabinets are completely sealed top and bottom to ensure dust-free storage and have a lip running the full width of both front and rear to ensure secure location when stacking. Each drawer is fitted with stops to prevent their accidental removal, however the drawers can be removed and relocated
- Base stands (available in black only) and colored top covers are available for the cabinets. The base stand comes in a standard type and a heavy duty wheeled base type. The standard base stand raises the cabinets off the ground so that the drawers can be easily opened and the wheeled base stand can be used to mobilize a stack of cabinets
- The number of cabinets that can be stacked is totally dependent on the contents / weight of each cabinet as well as the floor capacity



### Blockstore Cabinet

The Blockstore Cabinet accepts processing cassettes, embedding rings and unmounted blocks up to 12 x 25 x 30 mm.

- Eight drawers each divided into seven rows 30 mm wide
- Available in three colors, blue, green and two-tone gray
- Available in two sizes, standard and MINI (gray only)

Accessories	Order Number
3000 cassettes (48 x 48 x 27.5 cm)	E4322BLUE
3000 cassettes (48 x 48 x 27.5 cm)	E4322GRAY



## Fourteen-Drawer Slide Filing Cabinet

The fourteen-drawer cabinet is designed for the storage of 76 x 26 mm microscope slides.

- Available in three colors, blue, green and two-tone gray
- Available in two sizes, standard and MINI (gray only)
- Slides that are not dry can also be stored using a spring spacer to separate them (order number E43/16)

Accessories	Order Number
6000 slides (48 x 48 x 14 cm)	E4312BLUE
6000 slides (48 x 48 x 14 cm)	E4312GREEN
6000 slides (48 x 48 x 14 cm)	E4312GRAY



## Stackable Slide Storage Cabinet

- Holds up to 5,000 standard 75 x 26 mm microscope slides
- Six-cell metal unit is finished in beige baked enamel
- Unit is sold complete with drawers
- Cabinets lock together when stacked
- Metal base (ordered separately) is mounted on four rubber feet to protect bench surfaces and floors

Accessories	Order Number
Storage cabinet (48.3 x 40 x 12.7 cm)	141000
Cabinet base (47.6 x 40 x 7 cm)	141001



## Colorstack Filing Cabinets



### Colorstack Filing Cabinets

- Colorstack cabinets have been designed to color-code the storage of 76 x 26 mm slides
- Available in ten different drawer colors
- Cabinet and drawer bodies are supplied in a cream epoxy-coated metal
- Fit standard base stands (order number E4315)



### Replacement Drawers and Archiving System

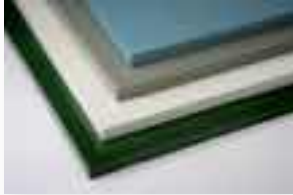
To save time and the need for unnecessary handling of slides, simply replace a full Colorstack drawer with an empty one. The replacement drawers are supplied in sets of four in a box designed to be re-used for the long-term storage of full drawers.

- Each box contains a set of four replacement color-coded drawers
- Available in the same ten colors as the Colorstack cabinets

Color	Dimensions	Capacity	Order Number (Cabinets with Drawers)	Order Number (Replacement Drawers)
	48 x 48 x 14 cm	6000 slides	E4312CAQUA	E4312CDAQUA
	48 x 48 x 14 cm	6000 slides	E4312CBLUE	E4312CDBLUE
	48 x 48 x 14 cm	6000 slides	E4312CGREEN	E4312CDGREEN
	48 x 48 x 14 cm	6000 slides	E4312CGRAY	E4312CDGRAY
	48 x 48 x 14 cm	6000 slides	E4312CLILAC	E4312CDLILAC
	48 x 48 x 14 cm	6000 slides	E4312CORANGE	E4312CDORANGE
	48 x 48 x 14 cm	6000 slides	E4312CPINK	E4312CDPINK
	48 x 48 x 14 cm	6000 slides	E4312CTAN	E4312CDTAN
	48 x 48 x 14 cm	6000 slides	E4312CWHITE	E4312CDWHITE
	48 x 48 x 14 cm	6000 slides	E4312CYELLOW	E4312CDYELLOW

Colors are a representation only

## Top Covers, Stands, and Storage Boxes

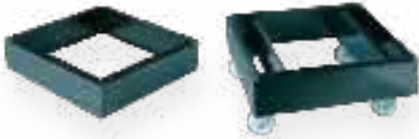


### Top Cover

Metal top cover for the Epredia cabinets.

- Enables the cabinet to be used as a work surface

Accessories	Order Number
48 x 48 x 2.5 cm	E4314GREEN



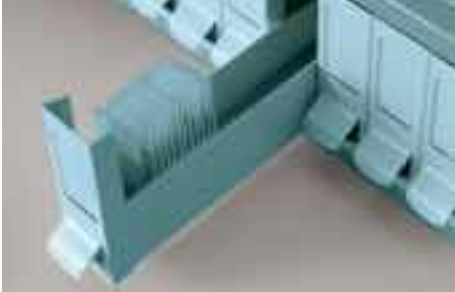
### Standard and Heavy-Duty Wheel Base Stand

Black base stands for the Epredia cabinets.

- Wheeled base stand is reinforced with four heavy-duty swivel caster wheels

Accessories	Order Number
Standard (48 x 48 x 11 cm)	E4315
Standard heavy-duty wheel base stand (48 x 48 x 20 cm)	E4315/HDWB

## Accessories for Epredia Storage Cabinets



### Spring Spacers

If slides are stored before they are completely dry, the spring spacer will separate them to stop them from sticking.

Compatible Cabinet	Order Number
E4312Color and E4312C/Color	E4316



### Slide Filing Location Strips

These strips are used to identify the location of a slide that has been removed from a cabinet.

Description	Order Number
White (100 / pack)	E4325

### Drawer Dividers

This divider can be used in the seven-drawer filing cabinet so that 76 x 26 mm slides can be stored as well as larger slides, etc.

Compatible Cabinet	Order Number
E4313Color	E4321

## Foam Dividers

This divider is used to hold 76 x 26 mm slides upright in the slide drawer.

Compatible Cabinet	Order Number
E43/12Color, E43/12MINI, and E43/12C/Color	B1000152



## Plastic Slide Boxes

Extremely durable plastic slide boxes to store 76 x 26 mm slides.

- Three sizes available – 25, 50 or 100 slide capacity
- Lids separate on the 25 and 50 slide capacity boxes
- 50 capacity slide box has a plastic catch
- 100 capacity slide box has a metal clasp
- Three colors available – white, blue and red
- Cork lined with index card in lid

Description	Order Number
<b>25-slide box (5.5 x 3.375 x 1.25 in.)</b>	
White	B1780
Red	B1781
Blue	B1782
<b>50-slide box (8.25 x 3.375 x 1.25 in.)</b>	
White	B1783
Red	B1784
Blue	B1785
<b>100-slide box (8.25 x 6.375 x 1.25 in.)</b>	
Red	B1787
Blue	B1788



### Slide Storage Box

- 100 slide capacity
- Plastic construction
- Indexed to aid in retrieval of stored slides

Description	Order Number
Plastic slide storage box	58299

## Slide Trays, Mailers, Envelopes, and Folders



### Plastic Slide Folders

Plastic slide folders available for the easy color-coding of 76 x 26 mm slides.

- 20 slide capacity
- Available in five colors
- Stackable with transparent cover

Description	Qty.	Order Number
Blue	10 / case	B1001200BL
Green	10 / case	B1001200GR
Gray	10 / case	B1001200GY
White	10 / case	B1001200WH
Yellow	10 / case	B1001200YW



### Slide Holder

Slide Holder is made of high-density polyethylene that will not swell, warp or crack.

- Can be used in microwaves and drying ovens
- Dimensions (W x H): 4 x 6 in. (10 x 25 cm)

Description	Qty.	Order Number
Slide holder	5 / case	SH460



## Mailer and Folder

Slide Mailer, Storage Box and Folders are designed to hold 20 slides.

### Slide Mailer

- Cardboard construction
- Holds two 3 x 1 in. (76 x 25 mm) microscope slides
- (W x H) 3.125 x 4 in. (79 x 102 mm) configuration conforms to U.S. Postal regulations
- Cut-out windows allow viewing of patient identification
- Each box holds 30 mailers
- Sold 24/box; 30 boxes per case

### Slide Folder

- Plastic construction
- See-through flaps eliminate need to open the folder when searching for slides
- Easy-to-clean

Description	Qty.	Order Number
Slide mailer	24 / box	2500



## Mailer and Envelope

Slide Mailers and Envelopes are available in plastic.

- Plastic mailer holds five slides in a single-piece design with built-in slide separators and a hinged, tight-fitting lid

Description	Qty.	Order Number
Plastic	12 / pack	125



## Cardboard Slide Folders

Cardboard Slide Folders are made of heavy, reinforced cardboard.

- Hold 3 x 1 in. (76 x 26 mm) microscope slides
- Available in two capacities

### Physical specifications

- 20-slide folder (closed): (W x H): 8 x 13.5 in. (20. x 34.3 cm)
- 30-slide folder: (W x H): 10.125 x 13.5 in. (28. x 34.3 cm)

Description	Order Number
20-slide folder	1604
30-slide folder	1606
40-slide folder	1607





# Digital Pathology

collaborative  
digital  
solutions



# Comprehensive Digital Pathology Solutions

When slides need to be scanned for consultation or analysis, having choices in capacity and speed are critical. The slide scanners from 3DHitech are designed to bring digital pathology to any lab, and allow for virtually instant communication between doctors and labs around the world.

## Comprehensive Solutions

- Complete family of scanners for any size lab
- Fully automated tissue microarrayers designed to save time and produce array blocks while conserving valuable tissue samples
- QuantCenter technology provides automatic image analysis across a spectrum of quantification needs

## Flexibility for Any Lab

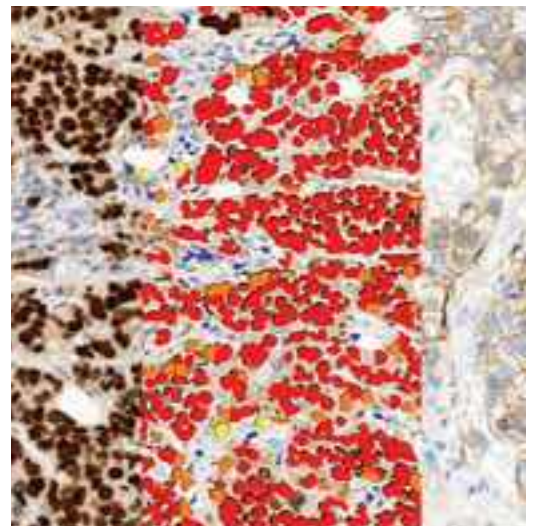
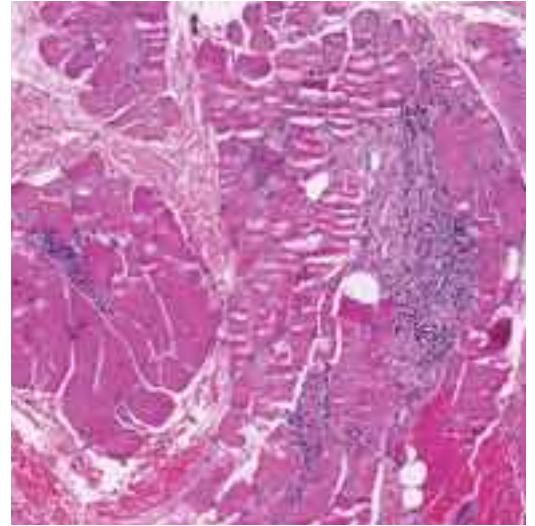
- Scanners for brightfield only or combined brightfield and fluorescent scanning in both live-view and saved to folder settings
- Slide capacities from one up to 1,000 slides per load
- Hands free microarray crafting customized core blocks for low and high volume labs

## Collaboration is Easy

- Communication with other labs has never been easier or faster, with the ability to scan slide images and send them for further viewing within seconds

## The Total Solution

- Get peace of mind with EpreDia extended service contracts that include preventative maintenance and thorough, expedited repairs, ensuring minimal downtime in your laboratory



For research and education uses only, not for use in diagnostic procedures

## 3DHistech Panoramic Slide Scanners



### 3DHistech Panoramic 1000

3DHistech's Panoramic™ 1000 is an end-user friendly, fast, and efficient slide digitalization system. Its 1000-slide capacity and robust design offer a reliable solution for high-volume whole-slide imaging.

- Ability to load up to 1000 standard slides at once
- Double width slide options for mixed standard and double width slide scanning at the same time
- Fully automatic loading and imaging reduces time in-between scans for high throughput
- Robust granite base reduces vibration artifact giving superior image quality
- Dual slide stage enables scanning and exchanging slides at the same time increasing work flow
- Heavy duty construction for high slide volume use
- Low maintenance design allowing a walk-a-way implementation
- STAT options to prioritize which slides get scanned first
- Rapid loading of slide holders without slowing throughput
- Preview samples for defined protocols while routine slides scan
- Two objectives exchangeable automatically during scanning for routine and high magnification demands
- 1D and 2D barcode reading and parsing
- Automated tissue detection and automated coverslip detection eliminate scanning non-sample areas

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### 3DHistech Panoramic 250 FLASH III

3DHistech™ Panoramic 250 Flash III, an all-in-one solution for digital pathology research and archiving. Enjoy increased speed and efficiency in routine digital pathology with 60 slides per hour.

- 250-slide capacity and continuous loading with vertical slide arrangement
- Award-winning, exceptional image quality for both brightfield and fluorescent scanning with up to nine single-band or multi-band filter slots with advanced FISH scanning techniques
- Pulsed Xenon FLASH light source for high-speed brightfield scanning
- Single or dual objective options for both low and high magnification needs up to 116x
- Darkfield preview for easy optimization of fluorescent samples
- Brightfield slide scanning in one minute at 40x resolution
- Motorized objective and camera changer
- Automatic slide loading, previewing, barcode reading and scanning
- All-round system for high-volume slide scanning in brightfield only or brightfield and fluorescent options



### 3DHistech Panoramic SCAN II

Save time in routine pathology and enjoy brightfield only or brightfield and fluorescent scanning solutions in the same machine.

- 150-slide capacity and continuous loading with vertical slide arrangement
- Award-winning, exceptional image quality for both brightfield and fluorescent scanning with up to nine single-band or multi-band filter slots with advanced FISH scanning techniques
- Single or dual objective options for both low and high magnification needs up to 116x
- Motorized objective changer
- One high-quality monochrome camera is used for both brightfield and fluorescence with unique three-channel brightfield light source and Lumencor FL Light Engines
- Automatic slide loading, previewing, barcode reading and scanning
- All-around system for medium volume slide scanning
- Darkfield preview for easy optimization of fluorescent samples

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### 3DHistech Panoramic MIDI II

A versatile, low-volume digital pathology solution for smaller labs.

- Twelve-slide capacity and continuous loading with horizontal slide arrangement
- Wet slide compatibility
- Brightfield and up to nine single-band or multi-band filter slots for fluorescent scanning
- Single or dual objective options for both low and high magnification needs up to 116x
- Darkfield preview for easy optimization of fluorescent samples
- Award-winning, exceptional image quality for both brightfield and fluorescent scanning with up to nine single-band or multi-band filter slots with advanced FISH scanning techniques



### 3DHistech DESK II

An excellent choice for teleconsultation and remote section scanning.

- Double-wide slide capacity
- Brightfield only scanning
- 40x and higher magnification options

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## 3DHistech Frozen Section Solutions



### 3DHistech MacroStation

3DHISTECH MacroStation – easy-to-use grossing platform with image recording system. Designed to share images of specimens large and small. Document linked margins, orientation sutures/wires, and dissection samples.

- Lightweight design, so it does not require any additional work for its installation and daily use
- Built-in light source and zoom functions to ensure high-quality gross images
- Chemical resistant materials for the easy cleaning
- Images can be uploaded and can be used as regular whole slide images for annotation, sharing or teleconsultations



### 3DHISTECH CaseCenter

CaseCenter is a full featured digital slide management software. Its flexible structure can be adapted to various fields, including research applications, teleconsultation and education. Integration with existing medical information systems is also possible.

- Digital slide management with flexible folder and case structure
- Use barcodes to organize your digital slides, macro images and project files easily
- Multiple user levels for different access to information

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## Digital Image Analysis

### **QuantCenter is a powerful, automatic image analysis platform designed for digital whole slide quantification process.**

Designed to fit seamlessly in the conventional microscopic investigation process, QuantCenter includes algorithms from tissue classification to cell-based FISH analysis that can be freely combined. It offers computer-aided image analysis allowing accurate, high-quality analytical results to be generated quickly.

The QuantCenter framework allows the connection of a variety of image analysis applications to generate a unique image analysis scenario. By using this feature, as the first step tissue classification modules can be applied

### **Molecular pathology**

#### **FISHQuant**

- A powerful cancer and cytogenetic application dedicated to quantify FISH (Fluorescence In Situ Hybridization) signals on tissue samples of solid tumor diseases like: breast and lung cancer, sarcomas, and lymphomas.
- This module is suitable for examination of hematological tumors, FISHQuant classifies the interphase and metaphase cells individually for a comprehensive evaluation.

#### **CISHQuant**

- Quantify CISH (Chromogenic In Situ Hybridization) stained samples. The algorithm can be calibrated to the stain protocol and quality by using an integrated color setting tool. This module is suitable for examining gene amplification, deletion and chromosome aberration.

#### **CISH-RNAQuant**

- Detects RNA virus in virus-infected cell nuclei (Epstein-Barr virus, HPV, HHV8).
- The application contains a color adjustment module which can be calibrated to the applied stain protocol and quality.

### **Histopathology**

Tissue classification

#### **HistoQuant**

- A histological segmentation module which identifies tissue elements based on the color and intensity of the image pixels.
- This module could be run as a standalone application or could be combined with any of our IHC quantification modules for brightfield or fluorescence analysis.

#### **PatternQuant**

- A trainable pattern recognition module for tissue classification, tissue pre-segmentation and identification of different tissue structures.
- The machine-learning-based algorithm is able to classify different tissue types based on their texture pattern and color features.

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## IHC quantification

### NuclearQuant

- A cell nuclei detection module designed for cell nuclei detection and quantification of IHC stained samples. The algorithm can be calibrated to the stain quality (from multiple automated stainers or manual procedures) by using an integrated color setting tool.

### MembraneQuant

- A membrane detection software application can be used for IHC stained histological sample quantification. The algorithm can be calibrated to the stain quality (from multiple automated stainers or manual procedures) by using an integrated color setting tool.

### CellQuant

- A cell detection application which is optimal for several IHC quantification.
- The application is adequate for cell nuclei, cytoplasmic and membrane marker quantification. The software reports results based on dedicated scores and positivity ranges of cell nuclei, cytoplasm or membrane signals.

### DensitoQuant

- An easy to use, fast and accurate, stain-intensity-based IHC quantification tool.
- The application identifies the positive stain, based on an automatic color separation method through which individual positive pixels are counted and classified based on intensity and threshold ranges.

## Whole-Slide Confocal Microscopy and 3D Histology



### **3DHISTECH Pannoramic MIDI Confocal**

The Pannoramic Midi Confocal digital slide scanner offers whole tissue confocal scanning. Confocal technology prevents vital details from becoming lost against blurry backgrounds. The system scans your entire section at once – avoiding missing information and minimizing bleaching of light sensitive areas. Your slide can be accessed fast, anytime and anywhere!

This revolutionary system offers brightfield, confocal and widefield fluorescent imaging in a single instrument.

- Easy scanning for high productivity: automatic sample localization, automatic exposure, multi-slide mode
- Unique technologies for increased speed: darkfield and fluorescent preview – effectively skipping empty areas, a Lumencor LED light engine for excellent illumination, Scientific sCMOS camera – high sensitivity with low noise for short exposure times, fully automatic water immersion system for high NA objective
- Anti-bleaching solutions: structured illumination for collecting every usable light from the sample, high brightness confocal mode for weak signals, hardware light triggering to avoid unnecessary sample illumination, reducable light intensity for sensitive samples
- Advanced options: customizable area selection, adjustable scanning and image processing options

### **3DHistech 3DView**

3DView offers 3-D reconstruction of the images giving an amazing insight view of the whole specimen. Up to 100 Z-stacks with customizable spacing between layers.

Microscope slides allow you to see one section of reality. Even with Z-stack or Extended focus, you are still constrained to that one section only. 3DHistech offers you a tool that can reconstruct the original tissue from its serial sections. Unlike MRI, the 3DView software lets you look into microscopic details while also showing you the tissue in its original form.

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## Tissue Microarrayers



### 3DHitech TMA Grand Master

- High-capacity workflow with 72 blocks (60 donor and 12 recipient) at the same time
- High-speed microarray – maximum of twelve seconds per core
- Simultaneous loading, imaging, drilling and punching
- Select core diameters in 0.6, 1.0, 1.5, and 2.0 mm



### 3DHitech TMA Master II

- Upgraded hardware
- High TMA quality
- Five-block capacity
- Fully automated control
- Small footprint
- Select core diameters in 0.6, 1.0, 1.5, and 2.0 mm

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## **3DHistech TMA Control Software**

An easy-to-use solution for TMA block design and creation.

- Project based workflow
- Recipient block layout designer
- Ability to import donor block ID and additional sample data from Excel file
- Barcode-based donor block identification
- Automated digital slide search from CaseCenter or local drive
- Automated digital slide overlay with TMA markers from viewer
- Ability to place tissue cores in a clean cuvette tube
- Customizable export tool: export TMA data with donor block images

## **3DHistech TMA Module**

- For high-throughput tissue microarray analysis
- Project based: multi-user, multi-slide
- Flexible gallery
- Works with Excel™ database created by the TMA Master or the TMA Grand Master

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# Stand-Alone Consumables

everyday  
solutions  
for your  
laboratory



## Discover new solutions to your laboratory's peskiest problems

### Hand Care Line

Comprehensive line of hand sanitizers, soaps, lotions, and glove liners to protect your laboratory staff while maintaining healthy, moisturized skin.

### Prefilled Containers

Easily transfer patient tissue samples in containers of various sizes prefilled with your preferred fixatives.

### Biopsy Bags

Mesh bags designed to protect fragile patient samples that allow for the exchange of fluid around the tissue.

### Morgue and Autopsy

Epredia offers a full range of organized, stand-alone, and benchtop pathology workstations for the gross examination and sectioning of specimens.

### Tissue Marking Dyes

Easily mark the margins of tissue for standard processing and cytometry with Epredia tissue marking dyes.



## Epredia Handcare

Epredia handcare products are designed specifically for healthcare and laboratory workers, as well as other professionals, to prevent skin irritation caused by frequent washing and gloving.

### SoftCIDE Handwash

Specialized formulations replenish the natural oils of the skin. All soaps are pH balanced with the skin and contain mild ingredients.

- **SoftCIDE:** Extra-mild, fast-acting, antimicrobial soap, 1% PCMX. Effective against a broad spectrum of microorganisms, yeast, and fungi, SoftCIDE is a healthcare personnel handwash.
- **SoftCIDE-ES:** Cost-effective, antimicrobial soap, 0.3% PCMX. Effective against a broad spectrum of microorganisms, SoftCIDE-ES features a high sudsing power and a thick, rich texture.
- **SoftCIDE-NA:** Cost-effective, plain soap. Clear pink in color, SoftCIDE-NA washes away the most stubborn grease, oil, dirt, and harmful microorganisms.

### SoftGUARD Hand Cream

SoftGUARD™ hand lotions are latex and CHG soap compatible. They are petroleum, mineral oil, and fragrance free, and are non-greasy and absorb immediately into the skin. SoftGUARD lotions are pH balanced with the skin and feature an extra-strength antimicrobial preservative system to prevent cross-contamination. The unique barrier feature helps prevent occlusion of the skin. For best results, apply after each handwashing, before gloving, and at the end of each day.

### Foaming Handcare

- **AlcoSCRUB™ foam:** Antiseptic hand cleanser, 62% ethyl alcohol, 99.9% effective against a broad range of microorganisms. Foam is ideal for situations where soap and water are unavailable.
- **SoftCIDE-NA Foam:** Plain soap, Green Seal™ Certified, formulated with vitamin E and aloe vera. Designed for light to medium soil removal, SoftCIDE-NA foam also helps rinse away harmful bacteria.

### AlcoSCRUB

An effective antiseptic hand cleanser to kill harmful bacteria.

- 99.9% effective against a broad spectrum of microorganisms
- Contains emollients to soften skin: Vitamin E and aloe
- No sticky residue and absorbs completely
- Mild on hands
- Fast-acting, antimicrobial strength (62% ethyl alcohol)
- No strong or lingering fragrance; no water or towel needed
- Meets CDC guidelines

### UltraFIT Nylon Glove Liners

UltraFit™ nylon glove liners are for hands that are extra sensitive to latex, nitrile, and vinyl gloves. They feature a form-fitting design and seamless fingertips. They are great for keeping hands warm when working in frozen/refrigerated areas, and feature optimum dexterity and sense of touch.

- Non-linting and washable; designed for multiple uses
- Skin-tight fit and ultra-thin fabric
- Provide protection from irritation and help prevent occlusion of the skin





Description
<b>SoftCIDE Handwash</b>
4 oz (118 mL) bottle with flip-top cap
16 oz (473 mL) bottle with pump-top
32 oz (946 mL) bottle with pump-top
128 oz/gallon (3.78 L) refill jug
<b>SoftCIDE-ES Handwash</b>
32 oz (946 mL) bottle with pump top
<b>SoftCIDE-NA Handwash</b>
32 oz (946 mL) bottle with pump top
<b>SoftCIDE-NA Handwash GreenSeal™ Certified</b>
32 oz (946 mL) bottle with pump-top
<b>SoftGUARD Hand Cream</b>
3 oz (89 mL) tube with flip-top cap
8 oz (237 mL) tube with flip-top cap
16 oz (473 mL) bottle with pump-top
<b>AlcoSCRUB Foam Hand Cleanser</b>
1.7 oz (50 mL) foaming bottle with pump-top
32 oz (946 mL) foaming bottle with pump-top
<b>AlcoSCRUB Hand Cleanser</b>
4 oz (118 mL) bottle with flip-top cap
16 oz (473 mL) bottle with pump-top
32 oz (946 mL) bottle with pump-top
<b>Handcare Accessories</b>
Pump-top for 128 oz/gallon (3.78 L) refill jug
16 oz (473 mL) and 32 oz (946 mL) wall bracket
32 oz (946 mL) foaming wall bracket ONLY

Description
<b>UltraFIT Glove Liners (Inspected for Medical Use)</b>
Small, green cuff band, medical
Medium, orange cuff band, medical
Large, blue cuff band, medical
<b>UltraFIT Glove Liners (Laboratory/Cleanroom Use)</b>
Small, green cuff band
Medium, orange cuff band
Large, blue cuff band
Extra-large, red cuff band



## Specimen and Grossing Containers

Specimen and grossing containers provide convenient fixation of tissue specimens. Designed to be used at full strength and should not require any additives. Made of clear polystyrene or clear polypropylene. Allow for 15 to 20 times the volume of fixation fluid to volume of specimen. Packed in handipacks and/or trays.

Description	Qty.	Order Number
<b>Richard-Allan Scientific Prefilled Containers</b>		
10% NBF 20 mL jar	192 / case	59201
10% NBF 40 mL jar	96 / case	51401
10% NBF 40 mL jar	168 / case	59401
10% NBF 60 mL jar	96 / case	51601
10% NBF 60 mL jar	126 / case	59601
10% NBF 90 mL jar	100 / case	56901
10% NBF 90 mL jar	120 / case	59901
10% NBF 120 mL jar	90 / case	591201
10% NBF 120 mL jar	96 / case	511201
10% Zinc Formalin 20 mL jar	192 / case	59201ZF
10% Zinc Formalin 20 mL jar with prostate kit #59201	192 / case	29012
10% Zinc Formalin 40 mL jar	168 / case	59401ZF
10% Zinc Formalin 60 mL jar	126 / case	59601ZF
10% Zinc Formalin 90 mL jar	120 / case	51901
10% Zinc Formalin 120 mL jar	90 / case	591201ZF
<b>Richard-Allan Scientific Dry Containers</b>		
Dry container 20 mL	284 / case	59202
Dry container 40 mL	216 / case	59402
Dry container 60 mL	150 / case	59602
Dry container 60 mL	150 / case	53602
Dry container 90 mL	125 / case	59902
Dry container 120 mL	100 / case	531202
Dry container 120 mL	100 / case	591202

Description	Qty.	Order Number
<b>Richard-Allan Scientific Signature Series Containers</b>		
10% NBF 20 mL jar	384 / case	56201
10% NBF 40 mL jar	216 / case	56401
10% NBF 60 mL jar	144 / case	56601
10% NBF 60 mL jar	150 / case	53601
10% NBF 90 mL jar	125 / case	53901
10% NBF 120 mL jar	75 / case	561201
10% NBF 120 mL jar	100 / case	531201
<b>Shandon Containers</b>		
Formal-Fixx 20 mL jar	180 / case	9990910
Formal-Fixx 60 mL jar	125 / case	9990914
Formal-Fixx 90 mL jar	125 / case	9990916
Formal-Fixx 120 mL jar	125 / case	9990918
Cytospin Collection Fluid 120 mL jar	125 / case	9990323
Glyo-Fixx™ 20 mL jar	180 / case	9990920
Glyo-Fixx 60 mL jar	125 / case	9990924
Glyo-Fixx 120 mL jar	125 / case	9990928
Mucolexx 120 mL jar	50 / case	9990375

## Biopsy Bags

Biopsy bags protect precious patient tissue samples by reducing the risk of small specimen loss. The biopsy bags allow for optimal exchange of fluid around the tissue.

### Biopsy Bags - Blue

These biopsy bags are monofilament blue anti-static nylon that provide superior fluid dynamics and easy specimen identification due to the blue tint.

Description	Qty.	Order Number
Biopsy bag, blue, small	1000 / case	6774010
Biopsy bag, blue, medium	1000 / case	6774009
Biopsy bag, blue, large	500 / case	6774011
Biopsy bag, blue, small	200 / case	6774014
Biopsy bag, blue, small	500 / case	6774015
Biopsy bag, blue, medium	200 / case	6774012
Biopsy bag, blue, medium	500 / case	6774013

### Biopsy Bags - White

These biopsy bags are solvent resistant and allow for optimal exchange of fluid around tissue.

Description	Qty.	Order Number
Biopsy bag, white, small	1000 / case	6774022
Biopsy bag, white, medium	1000 / case	6774019
Biopsy bag, white, large	500 / case	6774024

### Biopsy Bags - White

These biopsy bags feature an easy to pinch opening that allows for easy insertion of the specimen sample, yet keeps samples secure. Biopsy bags are conveniently packaged and are made from solvent-resistant nylon.

Description	Qty.	Order Number
Biopsy bag, white, small*	1000 / case	6774010W
Biopsy bag, white, small*	200 / case	6774014W
Biopsy bag, white, medium	1000 / case	6774009W
Biopsy bag, white, medium	200 / case	6774012W
Biopsy bag, white, large	500 / case	6774011W

\*Not available for purchase in EMEA

### Biopsy Bags - White

These biopsy bags are polyester, acid resistant bags which can be used during decalcification.

Description	Qty.	Order Number
Biopsy bag, white, medium, acid resistant	250 / case	6774050
Biopsy bag, white, small, acid resistant	250 / case	6774051
Biopsy bag, white, large, acid resistant	250 / case	6774052



## Morgue and Autopsy



### Filters

Description	Qty.	Order Number
Formalin neutral filter	ea.	9990612
Gemini AS/Excelsior AS Consul™ charcoal f/ XY filter	ea.	9990610
Grosslab™ Sr filter, full set - includes two potassium permanganate and two fine particle filters	ea.	9990850
Grosslab Jr filter, full set - includes two potassium permanganate and two fine particle filters	ea.	1001618
Hyperclean™ and Excelsior AS Consul charcoal filter	6 / pk	7411258
Hyperclean 2 charcoal filter	ea.	9990615
Suresorb™ dissecting table pad, 22 x 20 in.	50 / case	9834

### Saws

Description	Qty.	Order Number
Stryker autopsy saw, 110-120 V	ea.	8128
Shandon autopsy saw, 110-120 V, 50/60 Hz, 1.5 Amp, not UL listed	ea.	10000
Shandon autopsy saw, 220-240 V, 50/60 Hz, 0.8 Amp, not UL listed	ea.	10122
Bone saw with set of coarse fine blades	ea.	1001797
Councilman chisel, 2 x 2.25 in., 7 in. long	ea.	605
Large section blade with Arbor	ea.	10003
Large section blade without Arbor	ea.	1002100
Autopsy saw round blade, 2.5 in. diameter, with Arbor	ea.	10004

For Morgue and Autopsy Use Only

## Forceps and Scissors

Description	Qty.	Order Number
Cartilage forceps, straight, 5 in.	ea.	163
Cartilage forceps, fine point curved, 5 in.	ea.	1631
Microdissecting forceps, fine, 4.75 in.	ea.	3120019
Potts-Smith dressing thumb forceps, 7 in., premium	ea.	1001592
Tube occluding clamp hemostatic forceps, straight, smooth jaws	ea.	3120012
Dissecting Mayo scissors, straight, 6.75 in., premium	ea.	78682
Dissecting scissors, straight blunt sharp, 5.5 in.	ea.	28252
Iris scissors, straight, 4.5 in., premium	ea.	731210

Description	Qty.	Order Number
Compact design scale, complete kit, electric with A/C adapter and container	ea.	20031
Scale, electronic, no A/C adapter or container	ea.	B1000420
Instrument complete case	ea.	9996969
Small dissecting board, cork, 12 x 16 x 0.75 in.	ea.	36119
Large dissecting board, cork, 16 x 23 x 0.75 in.	ea.	361
Autopsy headrest, rubber, black	ea.	407
Post mortem thread, 4 oz. x 300 yards (0.11 kg x 274 m)	ea.	421
Post mortem needle, double curved, 5 in.	12 / pack	4111T
Disposal, 1/2 HP, 120 V, 60 Hz, 1 Ph light commercial duty	ea.	B1001205
Virchow skull breaker, 3.5 in.	ea.	607

For Morgue and Autopsy Use Only

## Tissue Marking Dyes

### Richard-Allan Scientific Mark-It Tissue Marking Dyes

Richard-Allan Scientific™ Mark-It™ Tissue Marking Dyes are used for tissue margin identification.

- Permanent dyes that maintain their original brilliance during routine tissue processing cycles
- Can be used on fresh or formalin-fixed tissues

#### Uses include:

- Marking surgical margins
- Identifying serial segments of large tissues to ensure proper orientation and embedding
- Maintaining proper tissue orientation for Mohs surgery specimens
- Identification of multiple pieces of tissue processed in the same cassette



### Shandon Tissue Marking Dyes

Shandon Tissue Marking Dyes permanently mark the margins of excised surgical specimens for exact orientation.

- Special binding pigment evenly coats the tissue without penetrating tissue surface
- Does not interfere with diagnostic interpretation because colors are not similar to standard histopathology dyes
- Quick-drying and easy-to-use decreases time factor in urgent frozen sectioning



#### Ordering Information:

Available individually or as a kit (includes one bottle each of black, blue, yellow, red and green; 50 applicator sticks; storage base).

### Poly-L-Lysine Solution

- Poly-L-Lysine solution is packaged for easy dilution

Description	Order Number
Richard-Allan Scientific Mark-It tissue marking dyes	5000
Shandon tissue marking dyes	31201123









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