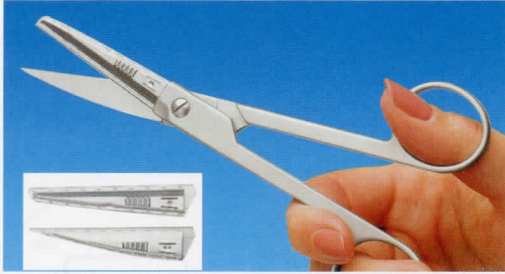


Grossing and Trimming

■ Tissue-Tek® Accu-Edge® Replaceable Blade Scissors

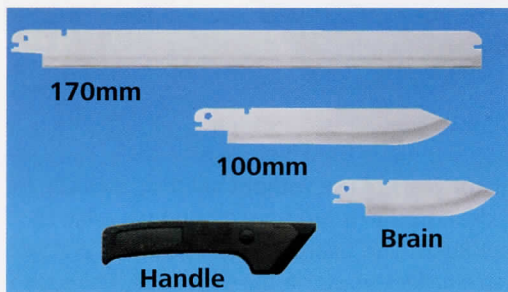


- Balanced and strong stainless steel handles
- Blunt or sharp tipped blades easily exchanged
- Special blade holder facilitates safe and secure assembly
- No need for sharpening ever again
- Completely autoclavable

For Sale in U.S.A. Only

13540	Replaceable Blade Scissors	.....each
13541	Blades, sharp/sharp	.....5 pairs/case
13542	Blades, sharp/blunt	.....5 pairs/case
13543	Blades, blunt/blunt	.....5 pairs/case

■ Tissue-Tek® Accu-Edge® Disposable Anatomical Blade Systems



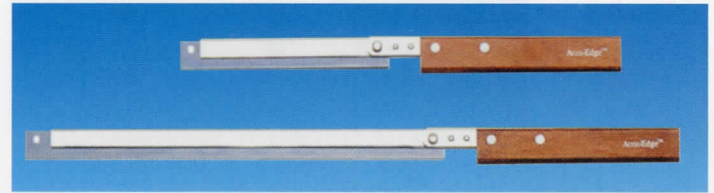
- Easy to assemble
- Disposable, interchangeable blades in each series
- Made from durable materials
- Ultrasharp
- Long-lasting design

One chemical and heat resistant resin handle accommodates all system blades: 100mm, 170mm, or brain blade - for outstanding versatility.

For Sale in U.S.A. Only

13535	Knife Handle	.....each
13536	Blade, 100mm (3.94") long	.....5/case
13537	Blade, 170mm (6.69") long	.....5/case
13538	Brain Blade	.....5/case

■ Tissue-Tek® Accu-Edge® Trimming Knife Handles and Disposable Blades

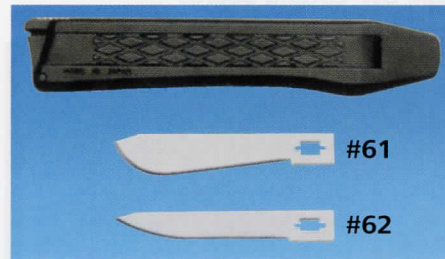


Two sturdy hardwood handles are designed to hold either of two lengths of blades. Advanced design allows blades to be removed and replaced quickly and easily. Available for either left hand or right hand use.

For Sale in U.S.A. Only

13544	Trimming Blades, short	.....50/case
13545	Trimming Handle, short straight	.....each
13546	Trimming Handle, right hand	.....each
13547	Trimming Handle, left hand	.....each
13548	Trimming Blades, long	.....50/case
13549	Trimming Handle, long straight	.....each

■ Tissue-Tek® Accu-Edge® Scalpel Handle and Disposable Blades



Replaceable blades are clamped firmly in a special, single piece, heat and chemical resistant handle. Curved and pointed blade (0.2mm thicker than other brands) offer

greater resistance to deformation under cutting pressure to help improve accuracy.

For Sale in U.S.A. Only

13512	Scalpel Handle	.....each
13513	Scalpel Blades #61	.....20/case
13514	Scalpel Blades #62	.....20/case

■ Extra Fine Bone Saw



This bone saw is lightweight and easy to use. The extra fine cutting edge makes smooth cuts. Very practical for the clinical grossing stations and many research labs.

13526	Extra Fine Bone Saweach
--------------	---------------------	-----------

■ Oscillating Autopsy Saw

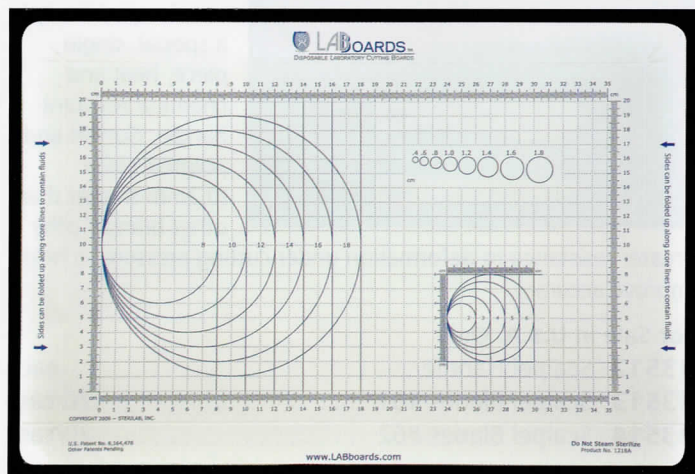
Features:

- Handle near blade provides good control and balance.
- Powerful 17,000 rpm motor oscillates at 32,000 oscillations per minute to cut bone and not tissue.
- Easy to handle, and cuts quickly to minimize operator fatigue.
- Power switch toggles on and off.
- 10-foot cord with hospital-grade plug provides maximum flexibility.
- Fixed arbor large section blade is included with the saw.
- Saw attaches to the HEPA Bone Dust Collector (optional).
- CSA listed; weight, 3.7 lbs, 1.7kg; Ship weight is 4.9 lbs, 2.2kg
- One fixed arbor 2-1/2" section blade and 0.125" allen wrench, are included.



- 54474** Autopsy Saw, 110-120V, 60Hzeach
54474-220 Autopsy Saw, 220-240V, 50Hzeach
54474-1 Arbor Section Bladeeach
54474-2 HEPA Bone Dust Collectoreach
54474-3 Allen Wrench 0.125"each

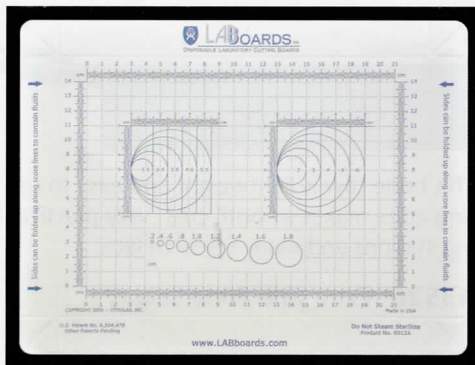
■ Labboards™ Single Use Cutting Boards



9" x 18" Labboard™

Features:

- Cost less to use than re-usable boards
- Heavy duty SBS paperboard
- Poly-coated scalpel friendly surface
- Sizes for biopsies and autopsies
- Printed metric calibrations
- Centimeter field grid



9" x 12" Labboard™

- Foldable sides for fluid containment
- Validates for EtO and gamma sterilizing
- Reduces contamination risks
- Single-use saves on clean-up time

Available in 3 different sizes

- 27226** Labboards™, 9 x 12"pkg/50
27227 Labboards™, 12 x 18"pkg/50
27228 Labboards™, 18 x 24"pkg/50

■ DissecTable™



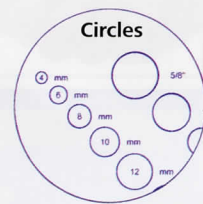
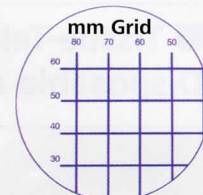
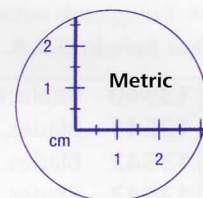
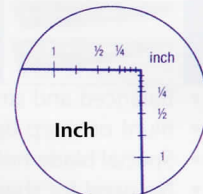
DissecTable™ Board in place on Base



Board with double layout up



DissecTable™ Base



The DissecTable™ Board is made from high density, thick, stain resistant polyethylene for years of use without bending, swelling or changing shape. A drain trough is provided around the edge of the board to contain fluids. This board offers large scales printed on one side and two smaller layouts on the other side. The scales are centimeters from one corner and inches from the other corner. The printed circle pattern shows 4, 6, 8, 10, 12, 14mm and 1/8", 1/4", 5/16", 3/8", 1/2", 5/8" diameters. The side with one large layout printed also includes a 60 x 80mm grid. Board dimensions are 575 x 400 x 12.5mm (23 x 15 x 1/2"). The heavy-duty DissecTable™ Base with rubber feet is used to elevate the DissecTable™ board to the proper height, hold board more stable and collect any run-off that may escape the board drain trough. Bases are stackable to adjust height higher. Board may be used without base.

- 27129** DissecTable™ complete: Board and Base . . .each
27129-1 DissecTable™ Board (without base)each
27130-2 DissecTable™ Base (without board)each

Trimming and Grossing Boards



Surface is self-healing and will not damage razor blades or scalpel blades. Good for all types of cutting, sectioning, trimming, dicing and dissecting. Use instead of wax sheets or corkboards. Flat white surface.

27220 Trimming Board, 30.5cm square (12")each

3152 Grossing Board, 40.6cm square (16")each

Multi-purpose Lab Containers



These polypropylene containers, with snap on lids, are specifically designed for the collection and transportation of various sizes of tissue samples. Available in 3 sizes.

12935 Lab Containers with lids, 8 oz. (236ml) . . .case/250

12936 Lab Containers with lids, 32 oz. (946ml) . . .case/100

12937 Lab Containers with lids, 64 oz. (1893ml) . . .case/50

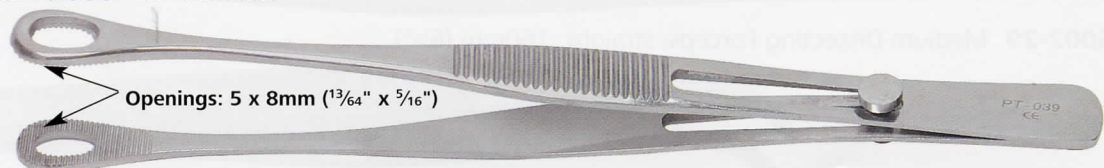
Loop Forceps, Serrated

Loop forceps handy for picking up tissues.



5002-30 Forceps, Serrated, St/St, with lock, 186mm (7-⁵/₁₆") longeach

Loop Forceps, Serrated *with slide lock*



5002-31 Forceps, Serrated, with slide lock, 146mm (5-³/₄") longeach

Biopsy Bags



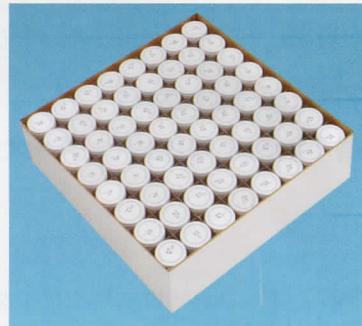
These nylon biopsy bags are made for the processing of small pathology tissue samples and cytology aspirates. Tissue samples are placed or filtered into the biopsy bag. The bag is then placed into a tissue cassette and processed as normal. These nylon biopsy bags prevent the loss of small tissue samples.

27154-5 Biopsy Bags, 25 x 40mmbox/1000

27154-6 Biopsy Bags, 45 x 75mmbox/200

27154-7 Biopsy Bags, 75 x 95mmbox/50

Pre-Fill Formalin Containers



This traditional fixative is buffered to a neutral pH. It is used in histological applications for fixing and storing tissue specimens. This line of all plastic containers is designed specifically for the collection and transportation of various sizes of tissue samples. Each container is half filled with 10% neutral buffered formalin. The sizes offered are 20, 40, 60 and 90ml. They are packaged in the proprietary Sure-Lok system. These containers are 95 kPa compliant.

18511 NB Pre-Fill Formalin 20ml Containercase/128

18512 NB Pre-Fill Formalin 20ml Containercase/780

18513 NB Pre-Fill Formalin 40ml Containercase/50

18514 NB Pre-Fill Formalin 60ml Containercase/50

18515 NB Pre-Fill Formalin 90ml Containercase/50

■ PELCO® Dissection Kit



Dissection Kit includes: Surgical scissors, iris scissors, tissue forceps, scalpel handle, scalpel blades, probe with angled tip, dissection needles, dropping pipette, dissecting pins, rigid metal ruler, and case.

The PELCO® Dissection Kit of surgical instruments for the teaching or research laboratory. All the instruments are of durable stainless steel and have a fine finish. Supplied in a zipper case with an 8 instrument capacity.

13200 PELCO® General Biology Dissecting Kiteach

Includes:

1329 All-Purpose Scissors, S/B, 14cmeach
13215 Iris Scissors, fine points, 11.4cm Leach
13220 Tissue Forceps, 1 x 2 teeth, 12.7cm Leach
549-4 Scalpel Handle No. 4 (incl. 5 ea. #22 blades)each
13225 Probe, Angle Tip, 15.2cm Leach

13230 Dissection Needles, 15.2cm length,
 one straight, one angle tipeach
13235 Dropping Pipette, glass, 7.6cm Leach
13240 Dissecting Pins, 1-3/4" (4.4cm)pkg/10
54485 Rigid Metal Ruler, 6" x 3/4" (152 x 19mm)each
13208 Pouch, Zipperedeach

Tissue Forceps

■ Finest Quality Aesculap® Delicate Dissecting Forceps



5002-20 Dissecting Forceps, straight, 100mm (4")each

5002-21 Dissecting Forceps, half-curved, 100mm (4")each

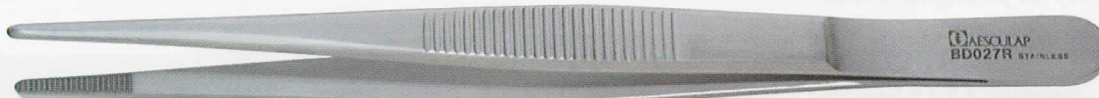
■ Aesculap® Forceps, Medium, Serrated Tips



5002-23 Medium Dissecting Forceps, straight, 115mm (4 1/2")each



5002-25 Medium Dissecting Forceps, straight, 130mm (5 1/8")each



5002-27 Medium Dissecting Forceps, straight, 145mm (5 3/4")each



5002-29 Medium Dissecting Forceps, straight, 160mm (6 1/4")each



5002-35 Medium Dissecting Forceps, curved, 130mm (5 1/8")each

continued next page

■ Aesculap® Forceps, Medium, Serrated Tips *continued*



5002-37 Medium Dissecting Forceps, curved, 145mm (5½")each

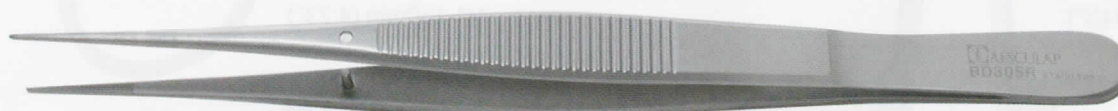
■ Microscopy Forceps, Stainless Steel



5441 Microscopy Forceps, 90mm (3½")each



5443 Microscopy Forceps, 115mm (4½")each



5445 Microscopy Forceps, 145mm (5¾")each

■ Dissecting Forceps, Economy



13250 Straight Forceps, Serrated Tips, 127mm (5")each



5431 Curved dissecting Forceps, Serrated Tips, chrome steel, 117mm (4⅝")each

■ Dressing Forceps, Economy

stainless steel, long, for tall jars, etc.



13268 Dressing Forceps, Serrated Tips, 300mm (11¾")each

■ Tissue Forceps, 1 x 2 Teeth



13220 Tissue Forceps, 1 x 2 Teeth, 127mm (5")each



enlarged view of tip

Scissors - Aesculap®

highest quality dissecting scissors,
manufactured of stainless steel

■ Dissection Scissors

- 1363** Dissection Scissors,
straight, B/B tips,
115mm (4½") . . .each

1/1 115mm (4½")



■ Ligature Scissors

- 1366** Ligature Scissors,
tips S/S straight,
130mm (5⅛") . . .each

1/1 130mm (4.73")



■ Iris Scissors



1361

1/1 95mm (3¾")



1360

- 1360** Iris Scissors, tips S/S straight,
95mm (3.74")each

- 1361** Iris Scissors, tips S/S curved,
95mm (3.74")each

■ Suture Scissors

1/1 130mm (5⅛")



- 1364** Suture Scissors,
tips S/B 130mm (5.12") . .each

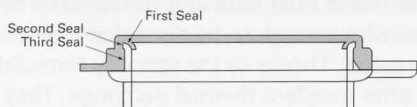
■ Delicate, Fine Tooth Blade Scissors

1/1 130mm (5⅛")



- 1315** Delicate, Fine Tooth Blade
Scissors, curved, S/S,
130mm (5.12")each

■ Triple-Seal Snap-Top Containers



These containers are leakproof, airtight snap-top and ideal for transporting and storing wet specimens. Molded of 100% HD translucent polypropylene. Available in a variety of sizes.

12950-11	Triple-Seal Vial, 14ml, 17 x 78mm	..case/500
12950-60	Triple-Seal Vial, 47ml, 23 x 84mm	..case/600
12950-90	Triple-Seal Vial, 90ml, 33 x 93mm	..case/400
12950-75	Triple-Seal Vial, 90ml, 50 x 50mm	..case/400
12950-120LP	Triple-Seal Vial with locking latch, 120ml, 43 x 90mm	..case/250
12950-240	Triple-Seal Vial, 250ml, 75 x 75mm	..case/150
12950-240LP	Triple-Seal Vial with locking latch, 250ml, 75 x 75mm	..case/140

■ Paraffin Dispenser



Microprocessor controlled heat with built-in clock. Easy viewing of paraffin without contamination. Ambient to 65°C (149°F).

Dimensions:

35.6 W x 38.1 D x 58.4 H cm (14" W x 15" D x 23" H)

Weight: 45 lbs.

28150	Paraffin Dispenser, 6.5 gallon Capacity 120VAC, 50-60 Hz, 4W	..each
28150-220	Paraffin Dispenser, 6.5 gallon Capacity 220VAC, 240VAC	..each

■ Tissue-Tek® Cold Plate by Sakura Finetek

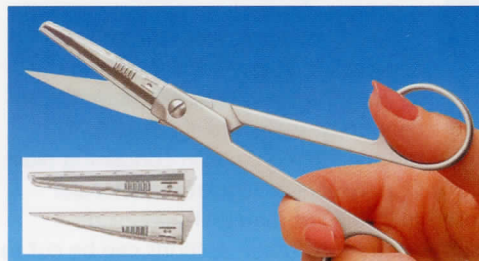


For use in chilling and preparing paraffin blocks for sectioning and as cold tray for other laboratory procedures. Polystyrene top and base are molded

together for tight seal. Freezes in approximately 4 hours in conventional freezer. Surface remains cool for up to 3 hours. Six cold plates and one insulator base per package. **For Sale in U.S.A. Only**

27246	Tissue-Tek® Cold Plate, pkg/6 Cold Plates and 1 Insulator Base	..each
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■ Tissue-Tek® Accu-Edge® Replaceable Blade Scissors



- Balanced and strong stainless steel handles
- Blunt or sharp tipped blades easily exchanged
- Special blade holder facilitates safe and secure assembly
- No need for sharpening ever again
- Completely autoclavable

For Sale in U.S.A. Only

13540	Replaceable Blade Scissors	..each
13541	Blades, sharp/sharp	..5 pairs/case
13542	Blades, sharp/blunt	..5 pairs/case
13543	Blades, blunt/blunt	..5 pairs/case

■ Floatation Workstation



Equip your lab with a Floatation Workstation and make your tissue preparation easier, safer and more efficient.

It has a removable glass dish, a scratch and chemical resistant plastic housing, micro processor controlled electronics and a high contrast background for optimum specimen viewing combined with the convenience of a heating plate for flattening sections and a slide dryer, all in one convenient unit.

27253	Floatation Workstation, 120VAC	..each
27253-220	Floatation Workstation, 220VAC	..each

■ Floatation Bath

The Floatation Bath is the same as the Floatation Workstation without the Heating Plate and the Slide Dryer.

27251	Floatation Bath, 120VAC	..each
27251-220	Floatation Bath, 220VAC	..each

Replacement Parts for Bath and Workstation

27251-10	Fluorescent Bulb	..each
27251-12	Glass Dish, 20 x 20 x 5cm	..each

The Floatation Workstation and Floatation Bath have been tested by a registered independent body to rigorous international quality and safety standards and have been found to be in compliance with UL, CSA and CE.

Embedding Media



■ Paraplast® Plus

Tissue embedding medium for faster penetration in one-third the time. Cut to 2µm thickness with excellent ribbon continuity; melts rapidly at 56-67°C. Double filtered paraffin containing plastic polymers of regulated molecular

weights and a small percent (0.8%) of dimethyl sulphoxide (DMSO) for faster tissue penetration. Tissue sections can be cut to 1µm in short ribbons. **M**

18393 Paraplast® Plus, 1kg/bagcase/8 bags



■ Paraplast® X-TRA Tissue Embedding Medium

Optimum media composed of clear pellets of low-molecular weight polymers and highly purified paraffins. ASTM melting point, 50° to 54°C. Cut to 2µm thickness with exceptional compression

resistance and ribbon continuity. Cut sections are free of distortion; sample morphology is preserved. Low viscosity permits complete infiltration of dense tissue. Sections adhere perfectly to slides without leaving stainable residue. **M**

18394 Paraplast® X-TRA, 1kg/bagcase/8 bags



■ PolyFin™ Paraffin

A mixture of fine paraffin waxes and copolymer alloys in convenient pellets. Produces ultra-thin compression-free ribbons. It is used to cut 2µm sections routinely without icing. Functions flawlessly in pressure/vacuum fluid flow processors. Provides maximum support

for both hard and soft tissue samples while maintaining exceptional clarity. Low melting point eliminates excessive heat distortion during tissue processing. Melting point 55°C. **M**

27222 PolyFin™ Paraffincase of 8 x 1kg

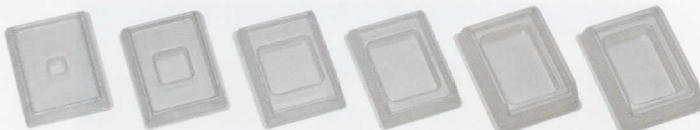
■ Histo-Clear/Histo-Clear II



Histo-Clear, distilled essential oils (food grade) and Histo-Clear II, a mixture of aliphatic hydrocarbons and distilled essential oils, (food grade) are excellent non-toxic clearing agents replacing xylene.

- 18390-L** Histo-Clear1 liter
- 18390-G** Histo-Clear1 gallon
- 18391-L** Histo-Clear II1 liter
- 18391-G** Histo-Clear II1 gallon

■ Disposable Base Molds

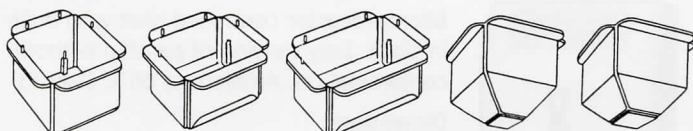


27147-1 **27147-2** **27147-3** **27147-4** **27147-5** **27147-6**

Disposable base molds offer ease and convenience of operation. They are inexpensive enough to be discarded after use, yet strong enough to be reused. Thanks to the specially formulated plastic material, they offer excellent thermal exchange. They have a smooth interior finish and rounded corners to facilitate their removal. Also, they are available in the same variety of sizes as metal molds and can be used with the same styles or types of cassettes and embedding rings. Each case contains 2 dispenser boxes of 500 base molds.

- 27147-1** Disposable Base Molds, 7x7x5mm . . .box/500
- 27147-2** Disposable Base Molds, 15x15x5mm . .box/500
- 27147-3** Disposable Base Molds, 24x24x5mm . .box/500
- 27147-4** Disposable Base Molds, 30x24x5mm . .box/500
- 27147-5** Disposable Base Molds, 37x24x5mm . .box/500
- 27147-6** Disposable Base Molds, 37x24x10mm .box/500

■ Peel-A-Way® Disposable Histology Molds



27110 **27112** **27114** **27116** **27118**

These tear away molds are useful for most plastic embedding media and for paraffin waxes. Especially suited for paraffins. May be used under anaerobic conditions. Peel-A-Way® I.D. Tabs are for use as identification with the Peel-A-Way® embedding molds (8000 per book).

- 27110** Peel-A-Way® 22mm square, 20mm deep .cs/288
- 27112** Peel-A-Way® 22 x 30mm x 20mm deep, rectangularcs/288
- 27114** Peel-A-Way® 25 x 45mm x 20mm deep, rectangularcs/288
- 27116** Peel-A-Way®, Truncated, 22mm square top, tapered to 8mm bottomcs/288
- 27118** Peel-A-Way®, Truncated, 22mm square top, tapered to 12mm bottomcs/288
- 37124** Peel-A-Way® I.D. Tabsbooklet/8000

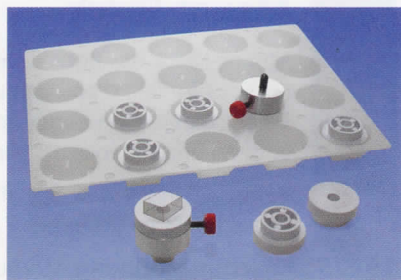
M = MSDS on web page

■ Molding Trays

- Easy to store block holders attach to reusable chuck designed for your microtome.
- Matte surface for easy marking.
- Large center hole prevents bubble formation.

Lightweight, durable polyethylene trays are ideal for molding specimen blocks of JB-4 and other resins.

Used with popular block holders and chucks.



Polyethylene Molding Trays and Block Holders

- | | |
|--------------|---|
| 27304 | Molding Trays, 6x12x5mm, (20 cavities) . . .each |
| 27306 | Molding Trays, 12x16x5mm, (20 cavities) . . .each |
| 27308 | Molding Trays, 6x8x5mm, HEX, (9 cavities) box/3 |
| 27310 | Molding Trays, 2x15x5mm, (9 cavities) . . .box/3 |
| 27312 | Molding Trays, 13x19x5mm, (9 cavities) . . .box/3 |

Stainless Steel Base Molds

■ Tissue-Tek®

For use with tissue and biopsy cassettes.

Five millimeter deep molds are made of stainless steel and are reusable with extended fins to prevent tipping and provide gripping surface for easy handling. Flat metal bottom allows maximum heat/cold exchange. Can also be used with the Processing/Embedding Cassette Systems. **For Sale in U.S.A. Only**



- | | |
|--------------|---|
| 27185 | S/S Base Mold, 7 x 7 x 5mmcase/12 |
| 27186 | S/S Base Mold, 15 x 15 x 5mmcase/12 |
| 27187 | S/S Base Mold, 24 x 24 x 5mmcase/12 |
| 27188 | S/S Base Mold, 30 x 24 x 5mmcase/12 |
| 27189 | S/S Base Mold, 37 x 24 x 5mmcase/12 |

for use with embedding rings



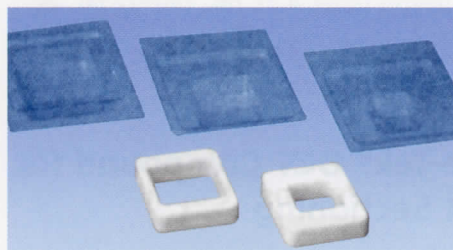
Reusable. Stainless Steel. Embedding rings will fit all sizes. Available in 6mm, (1/4") and 12mm, (1/2") depth. 12 molds per case.

- | | |
|--------------|--|
| 27190 | S/S Base Mold, 16 x 16 x 6mmcase/12 |
| 27191 | S/S Base Mold, 22 x 22 x 6mmcase/12 |
| 27192 | S/S Base Mold, 32 x 25 x 6mmcase/12 |
| 27193 | S/S Base Mold, 38 x 25 x 6mmcase/12 |
| 27194 | S/S Base Mold, 22 x 22 x 12mmcase/12 |
| 27195 | S/S Base Mold, 32 x 25 x 12mmcase/12 |
| 27196 | S/S Base Mold, 38 x 25 x 12mmcase/12 |

Cryo Embedding

■ Cryomolds®

for use with Tissue-Tek® II M/C



Tissue-Tek® Cryomold® creates a uniformly shaped, flat-surface specimen block with CryO-Z-T Compound for frozen sectioning. Disposable plastic molds fit

Cryobar® freezing wells; Available in 3 sizes: standard (25x20x5mm) fits directly into the Cryobar® freezing wells, biopsy (10x10x5mm) and intermediate (15x15x5mm) require adapters for optimum uniform freezing in the Cryobar®. Cryomolds® are provided 100 per package. **For Sale in U.S.A. Only.**

- | | |
|--------------|--|
| 27180 | Cryomold® Standard, 25 x 20 x 5mmpkg/100 |
| 27181 | Cryomold® Standard, 10 x 10 x 5mmpkg/100 |
| 27183 | Cryomold® Standard, 15 x 15 x 5mmpkg/100 |

■ PELCO Histo/Cyto-Freeze™ Cryo Spray



Excellent for cooling liquid, semi-solid and solid specimens. Ideal for ultra-rapid freezing of fresh tissue, cooling of liquids to induce precipitation prior to filtering and cooling of field samples.

PELCO® Histo/Cyto-Freeze™ delivers instant flash freezing for cryostat sectioning. It cools down to -60°F (-50°C) in just three seconds. To cut frozen sections, mount section directly on the mi-

crotoome holder, simply spray to flash freeze and section. Time saving procedure and prevents water crystals build-up caused by slower methods. The provided nozzle delivers the freezing action exactly where it is needed.

Contains 10 oz pure, 100% virgin tetrafluoroethane for enhanced freezing and cooling performance. Non-flammable, non-corrosive odorless gas. Ozone safe. Contains no CFC's. **M**

- | | |
|--------------|---|
| 27219 | PELCO® Histo/Cyto-Freeze™, 10 oz.each |
|--------------|---|

■ Cryogen Spray



For cooling and freezing tissue sections. Does not contain CFC's, cools to -60°F (-50°C). **M**

- | | |
|--------------|--------------------------------------|
| 27218 | Cryogen Spray,
10 oz.each |
|--------------|--------------------------------------|

M = MSDS on web page



■ Tissue Freezing Medium

Embedding matrix for frozen sections. Less curling, less ice artifacts, freezes faster. 4 oz. btl., case/12 btl. **M**

27209 Tissue Freezing Medium, 4 oz.each



■ Tissue-Tek® OCT Compound for Cryostat Sectioning

No residue or background staining. Freezes specimen matrix for cryostat sectioning at temperatures $\leq -10^{\circ}\text{C}$. Formulation of water soluble glycols and resins. No residue on slides during staining procedure. 4 oz. bottle. **For Sale in U.S.A. Only** **M**

27050 OCT Compound, 4 oz.each



■ SHUR/Mount™ Liquid Cover-glass & Mounting Medium

SHUR/Mount™ Aqua-Poly/Mount, designed for cover-slipping slides directly from water. As it is water based and non-fluorescing, it is applicable for immuno-fluorescent techniques because it enhances and retains fluorescent stains. **M**

27212 SHUR/Mount™ Aqua-Poly/Mount, 20mleach



■ SHUR/Mount™ Toluene-Based Liquid Mounting Medium

For mounting and preservation of microscope slide specimens. **Flammable**, **M**, **H** \blacklozenge **F**

27214 SHUR/Mount™ Toluene-Based Liquid Mounting Medium, 4 oz.each

H \blacklozenge **F** = HAZARD Fee may apply*

■ Histomount™

Museum quality mounting media, permanent clarity, stringently controlled optical specifications
Histomount™ is the classic choice in synthetic mounting media. Histomount™ provides a permanent seal to store or ship slides with confidence.

Histomount™ is a pH neutral, UV stabilized preparation which retains its clarity and brilliance for years. Refractive index is matched to glass cover slips and slides, reducing chromatic aberration with any light source.

Histomount™ is effective with most clearing agents when used as a liquid cover slip or as a permanent mounting medium for traditional glass cover slipping. A dip stick providing an optimal amount of Histomount™ is provided with each 100ml bottle. **M**

19479 Histomount™, 100mleach

19480 Histomount™, 450mleach

M = MSDS on web page; **T** = Tech Note on web page



■ Aqueous Mounting Medium, Mount-Quick

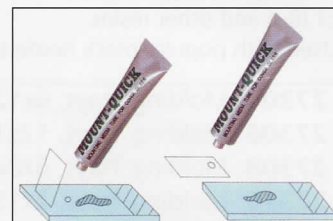
Mount-Quick has been developed for mounting stained sections for lipoid and immune staining, especially when soluble chromogen solution, i.e. AEC, is used with an organic solvent. 30ml bottle.

Refractive Index: 1.4; Specific Gravity: 0.88 so viscosity: 33 cp (25°); pH: 7.0

19477 Aqueous Mounting Medium, 30mleach

■ Mounting Medium in a Tube, Mount-Quick

Total control over dispensed drops. No change in density. Mount-Quick dries quickly with high transparency and no bubbles. It will not fade or deteriorate. It is soluble in xylene. A tightly capped tube will give long term storage without leaking. 30ccm. **M**



Density: 40% solids
Specific Gravity: 0.895P
Viscosity: 33cP (25°)

19478 Mounting Medium in a tube, 30ccmeach



■ Tissue-Tek® Mold Release

A mold release concentrate used to coat base molds for easy release of paraffin blocks. Dilute 5ml of concentrate with 95ml of ethyl or isopropyl alcohol. Dip molds and dry before use.

4 oz. bottle. **For Sale in U.S.A. Only** **M**

27215 Tissue-Tek® Mold Release, 4 oz.each

■ Liquid Release Agent



A hydrosoluble mold-release agent for use in flat embedding of micro-organisms, and as a replacement for the PTFE coating of glass slides to produce a smoother, even surface.

The reference below describes the selection and precisely oriented sectioning of single cells by light microscopy, prior to examination by EM. **T**

Reymond OL & Picket-Heaps JD, 1983 J. Microscopy 130, p. 179.

18027 Liquid Release Agent, 100mleach

■ Deionized Water, Reagent Grade A.C.S.

Prepared at 18 megohm/cm specific resistance using a reverse osmosis mixed deionization, activated filtration and final filtration at 0.2 microns.

Color: (APHA) $\leq +5$

Bacteriological purity 0CFUs/L

Residue after evaporation . . 10ppm

Coliform negative

18708 Deionized Water, 1 gal. . each

H₂O; [7732-18-5]; FW 18.02

■ Biopsy Cassette Bottoms

*made of acetal polymer (unless otherwise noted)
for use with metal cover*



Disposable plastic tissue cassettes are suitable for holding and identifying tissue samples in processing, embedding and sectioning procedures. The cassettes fit securely in microtome chuck adapters. They are molded from a high density acetal polymer that is totally resistant to the chemical action of histological solvents. (Exception: Prod. No. 27168-0, clear, which is made of polypropylene). The slanting writing surface accepts writing easily, permitting sample identification throughout all stages of embedding and long afterwards when archived. They are available in several colors. These cassettes are made to accept standard metal lids, Prod. No. 27167.

27168-0	○ Clear	Biopsy Cassette Bottoms	case/1500
27168-1	○ White	Biopsy Cassette Bottoms	case/1500
27168-2	● Pink	Biopsy Cassette Bottoms	case/1500
27168-3	● Green	Biopsy Cassette Bottoms	case/1500
27168-4	● Yellow	Biopsy Cassette Bottoms	case/1500
27168-5	● Blue	Biopsy Cassette Bottoms	case/1500

■ Metal Process Cover



Stainless Steel lid for use on Series 27168 Embedding Cassettes.

27167 Metal Process Coverspkg/25

■ Histosette II Tissue Cassettes

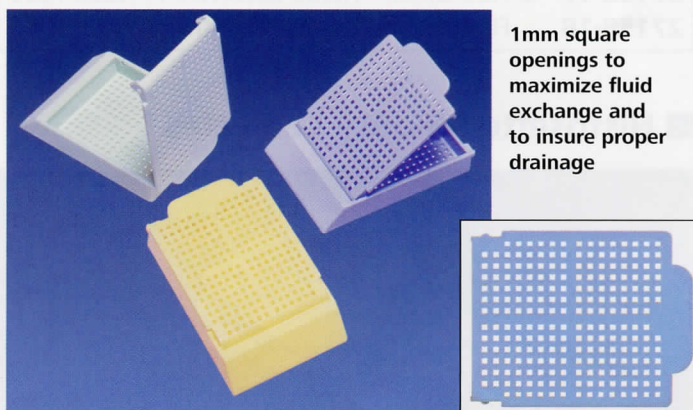


can be used in leading automatic cassette labeling instruments

Tissue processing cassettes convenient for cassette labeling instruments because covers are packed separately. Large 45° writing area and efficient flow-through slots. Cassettes are packed in two dispenser boxes of 500. Covers are packed in one dispenser box of 1000.

27164-1	○ White	Tissue Cassettes	case/1000
27164-2	● Pink	Tissue Cassettes	case/1000
27164-3	● Green	Tissue Cassettes	case/1000
27164-4	● Yellow	Tissue Cassettes	case/1000
27164-5	● Blue	Tissue Cassettes	case/1000

■ Histosette II Biopsy Cassettes



1mm square openings to maximize fluid exchange and to insure proper drainage

Integral lid, large writing area, 45° angle. Suitable for certain types of cassette labeling instruments. Sold as a dispenser box of 500. Also available in three fluorescent (fluo) colors.

27157-1	○ White	Biopsy Cassettes	case/500
27157-2	● Pink	Biopsy Cassettes	case/500
27157-3	● Green	Biopsy Cassettes	case/500
27157-4	● Yellow	Biopsy Cassettes	case/500
27157-5	● Blue	Biopsy Cassettes	case/500
27157-16	● Fluo Pink	Biopsy Cassettes	case/500
27157-17	● Fluo Green	Biopsy Cassettes	case/500
27157-18	● Fluo Yellow	Biopsy Cassettes	case/500

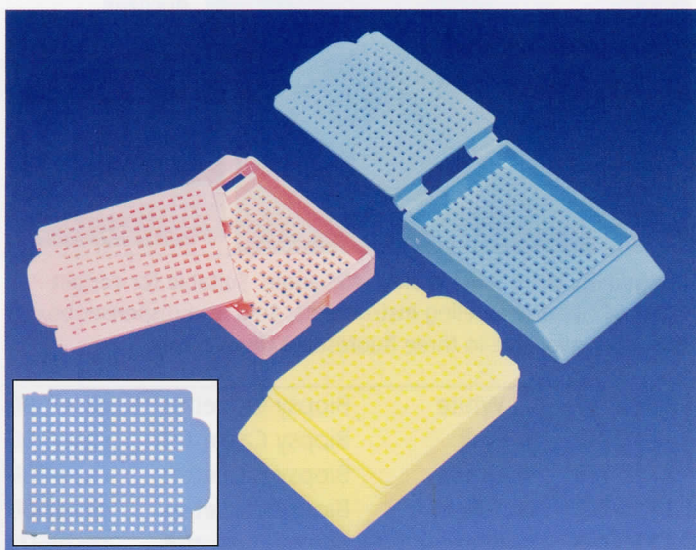
Histosette I Tissue Cassettes



Tissue Processing Cassettes, but with a 30° angle. Also available in three fluorescent (fluo) colors. Packed in 3 dispenser boxes of 500 each / 1500 per case.

27158-1	○ White	Tissue Cassettes . . .case/1500
27158-2	● Pink	Tissue Cassettes . . .case/1500
27158-3	● Green	Tissue Cassettes . . .case/1500
27158-4	● Yellow	Tissue Cassettes . . .case/1500
27158-5	● Blue	Tissue Cassettes . . .case/1500
27158-16	● Fluo Pink	Tissue Cassettes . . .case/1500
27158-17	● Fluo Green	Tissue Cassettes . . .case/1500
27158-18	● Fluo Yellow	Tissue Cassettes . . .case/1500

Histosette I Biopsy Cassettes



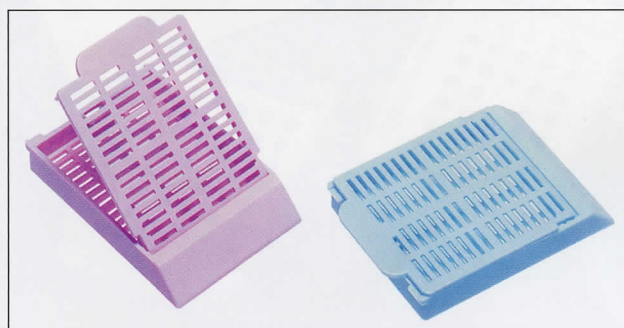
0.9mm square openings to maximize fluid exchange and to insure proper drainage

Specially designed for biopsy specimens during the embedding process. 0.9mm square openings to insure proper drainage. Not

suitable for automated printers. 39° angle. Also available in three fluorescent (fluo) colors. Sold in box of 500.

27159-1	○ White	Biopsy Cassettes . . .box/500
27159-2	● Pink	Biopsy Cassettes . . .box/500
27159-3	● Green	Biopsy Cassettes . . .box/500
27159-4	● Yellow	Biopsy Cassettes . . .box/500
27159-5	● Blue	Biopsy Cassettes . . .box/500
27159-16	● Fluo Pink	Biopsy Cassettes . . .box/500
27159-17	● Fluo Green	Biopsy Cassettes . . .box/500
27159-18	● Fluo Yellow	Biopsy Cassettes . . .box/500

Histosette II Tissue Cassettes



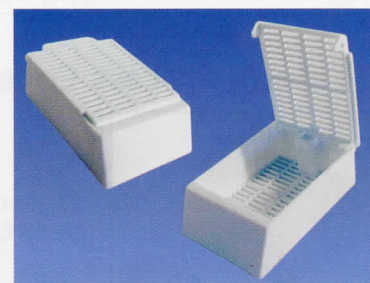
Integral lid easily snaps off and locks easily into base as often as necessary. 45° angle offers large writing area. Efficient flow-through slots and good drainage. Not suitable for automated printers. Also available in three fluorescent (fluo) colors. Packed in 3 dispenser boxes of 500 each / 1500 per case.

27156-1	○ White	Biopsy Cassettes . . .case/1500
27156-2	● Pink	Biopsy Cassettes . . .case/1500
27156-3	● Green	Biopsy Cassettes . . .case/1500
27156-4	● Yellow	Biopsy Cassettes . . .case/1500
27156-5	● Blue	Biopsy Cassettes . . .case/1500
27156-16	● Fluo Pink	Biopsy Cassettes . . .case/1500
27156-17	● Fluo Green	Biopsy Cassettes . . .case/1500
27156-18	● Fluo Yellow	Biopsy Cassettes . . .case/1500

MACROSETTE®

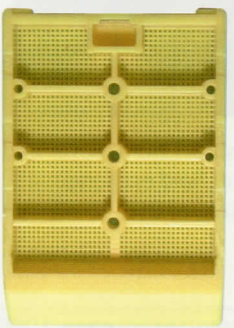
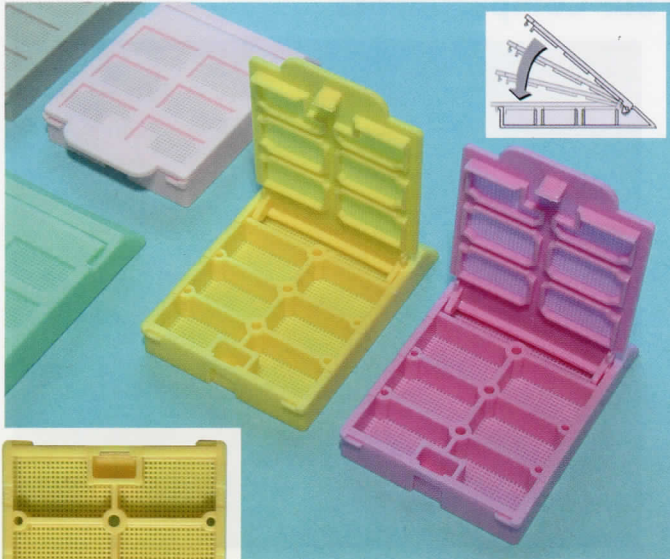
Processing/Embedding Cassettes
(with covers assembled)
made of acetal polymer

Similar to 27156 series but specially designed to hold larger specimens during the embedding process as well as in a storage cabinet. Interior dimensions: 29 x 25 x 10mm.



27166	MACROSETTE® Processing/Embedding Cassettes, Whitepkg/250
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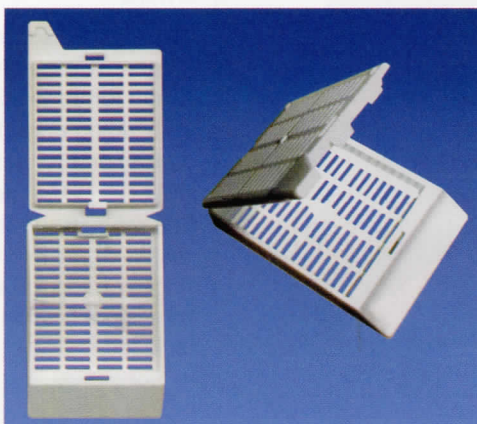
■ Microsette I Biopsy Cassettes



Cassette has 6 distinct compartments 7 x 12mm, numbered from 1-6. No biopsy pads necessary. Cover and base have over 3000 square openings of 0.26mm, 170 holes per compartment to maximize fluid exchange and proper draining.

27146-1	○ White	Biopsy Cassettesbox/250
27146-2	● Pink	Biopsy Cassettesbox/250
27146-3	● Green	Biopsy Cassettesbox/250
27146-4	● Yellow	Biopsy Cassettesbox/250
27146-5	● Blue	Biopsy Cassettesbox/250
27146-16	● Fluo Pink	Biopsy Cassettesbox/250
27146-17	● Fluo Green	Biopsy Cassettesbox/250
27146-18	● Fluo Yellow	Biopsy Cassettesbox/250

■ Uniset™ Tissue Cassettes

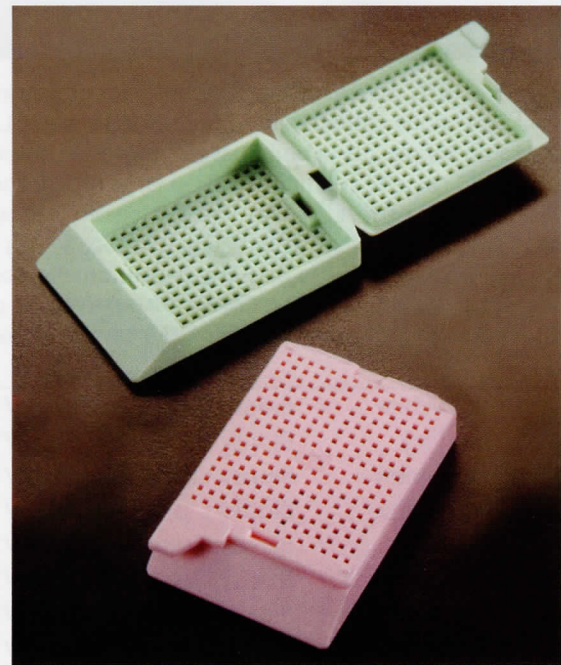


Cassettes keep specimen safely submerged in liquid. Efficient flow-through slots. Snap-latch and hinge-lock design prevent

early separation of base and lid and allows for one hand operation. Large labeling area on two sides of cassette. Anterior writing area is at 35° angle. Packed in 3 dispenser boxes of 500 each / 1500 per case.

27400-1	○ White	Tissue Cassettes . . .case/1500
27400-2	● Pink	Tissue Cassettes . . .case/1500
27400-3	● Green	Tissue Cassettes . . .case/1500
27400-4	● Yellow	Tissue Cassettes . . .case/1500
27400-5	● Blue	Tissue Cassettes . . .case/1500
27400-16	● Fluo Pink	Tissue Cassettes . . .case/1500
27400-17	● Fluo Green	Tissue Cassettes . . .case/1500
27400-18	● Fluo Yellow	Tissue Cassettes . . .case/1500

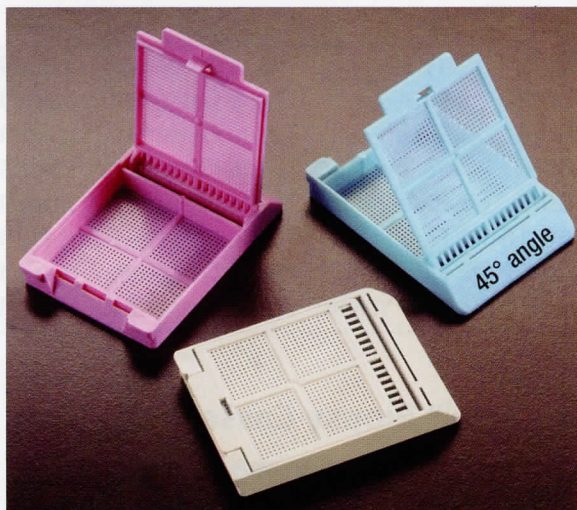
■ Uniset™ Biopsy Cassettes



Similar to Uniset™ Tissue Cassettes. 1mm openings assure maximum fluid exchange. Dispenser box of 500.

27450-1	○ White	Biopsy Cassettesbox/500
27450-2	● Pink	Biopsy Cassettesbox/500
27450-3	● Green	Biopsy Cassettesbox/500
27450-4	● Yellow	Biopsy Cassettesbox/500
27450-5	● Blue	Biopsy Cassettesbox/500
27450-16	● Fluo Pink	Biopsy Cassettesbox/500
27450-17	● Fluo Green	Biopsy Cassettesbox/500
27450-18	● Fluo Yellow	Biopsy Cassettesbox/500

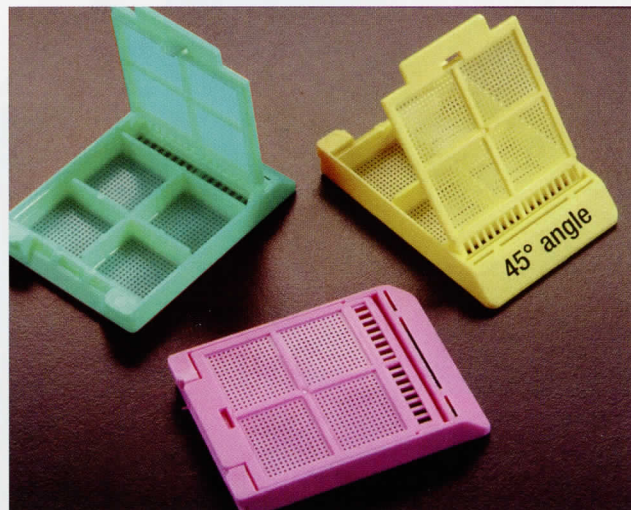
■ Micromesh™ Biopsy Cassettes One Compartment



Cassettes have 1676 square openings allowing for greatly improved fluid exchange without having to use biopsy pads. Large anterior and posterior slots in both cassette and cover ensure that the Micromesh™ cassette will sink rapidly. A large square compartment, 27mm, is perfect even for needle biopsies. The cover does not protrude above the cassette, a great space-saving feature allowing more cassettes to be stacked in automatic labeling machines and in tissue processors. Covers are pre-installed on cassettes. Packed four dispenser boxes of 250 cassettes/box/1000/case.

27150-1	○ White	Biopsy Cassettes	. .case/1000
27150-2	● Pink	Biopsy Cassettes	. .case/1000
27150-3	● Green	Biopsy Cassettes	. .case/1000
27150-4	● Yellow	Biopsy Cassettes	. .case/1000
27150-5	● Blue	Biopsy Cassettes	. .case/1000
27150-16	● Fluo Pink	Biopsy Cassettes	. .case/1000
27150-17	● Fluo Green	Biopsy Cassettes	. .case/1000
27150-18	● Fluo Yellow	Biopsy Cassettes	. .case/1000

■ Micromesh™ Biopsy Cassettes Four Compartments



Similar to No. 27150. Compartments measure 13mm, cover and base have about 1676 openings maximizing fluid exchange. 45 labelling area. Packed in four dispenser boxes of 250 cassettes/box/1000/case.

27165-1	○ White	Biopsy Cassettes	. .case/1000
27165-2	● Pink	Biopsy Cassettes	. .case/1000
27165-3	● Green	Biopsy Cassettes	. .case/1000
27165-4	● Yellow	Biopsy Cassettes	. .case/1000
27165-5	● Blue	Biopsy Cassettes	. .case/1000
27165-16	● Fluo Pink	Biopsy Cassettes	. .case/1000
27165-17	● Fluo Green	Biopsy Cassettes	. .case/1000
27165-18	● Fluo Yellow	Biopsy Cassettes	. .case/1000

■ Modular Storage Cabinet for Embed- ding Cassettes and Embedding Rings



■ Tissue-Tek® Cassette Filing Cabinet

Provides permanent storage-reference unit for blocks embedded in cassettes or embedding rings. It is stackable and accommodates 1500 cassettes or 1000 embedding rings. One-piece construction eliminates hinges and doors for dust-free storage. Includes six impact-resistant plastic drawers with identification area. **For Sale in**

U.S.A. Only

Dimensions: 43.2 x 24.1 x 38.1cm (17" x 9.5" x 15")

27169 Tissue-Tek® Cassette Filing Cabineteach



*made of high impact poly-
styrene*

These drawers provide permanent storage and identification for up to 165 embedding rings (PELCO® 27169) or 250 cassettes (PELCO® 27164) per drawer. The cabinets are stackable, thanks to the interlocking ridges on the top and bottom. Identification labels are included.

Dimensions: 40.5 x 23 x 5.1cm H (16" x 9" x 2" H)

27159 Modular Storage Drawers, for 1,500 embedding cassettes or 1,000 embedding ringscase/6

■ Macrosette®

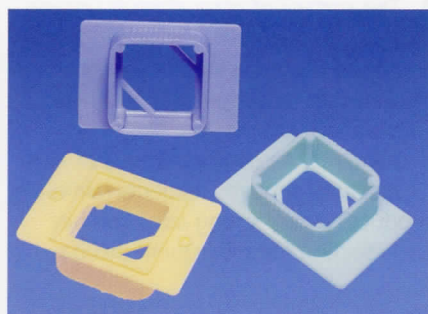


27147-6 Disposable Deep Base Mold for Macrosette®

Disposable cassette especially designed to hold larger specimens during embedding and storage. Packed in three dispenser boxes of 250.

27166	○ White	Macrosette® Cassettes	. . .case/750
Disposable Deep Base Mold for Macrosette®			
27147-6	Transparent	37x24x10mm	. . . . .case/500

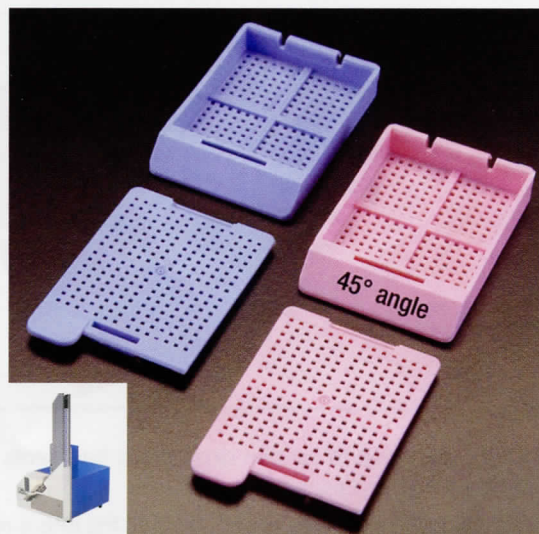
■ Embedding Rings



Embedding Rings are suitable for holding and identifying tissue sample blocks and fit well in microtome chuck adapters. The etched writing surface on the ring is marked with an identification number and placed on top of the sample block. Additional parafin is poured into the base mold to cement the ring onto the tissue block. The embedding ring securely holds the tissue sample in the microtome chuck adapter for sectioning and then identifies the sample while in storage. Made of polystyrene. Packed in four dispenser boxes of 250.

27169-1	○ White	Embedding Rings	. . .case/1000
27169-5	● Blue	Embedding Rings	. . .case/1000

■ Swingsette™ Biopsy Cassettes



Can be used in leading automatic cassette labeling instruments

Most convenient for cassette labeling instruments since bases and covers are packed separately. This new model differs by the special hinge that holds the base and the cover together. This hinge allows cassettes to be opened and closed as often as necessary. Three frosted writing surfaces. The anterior surface is at a 45° angle. Packed in two dispenser boxes of 500 bases and one dispenser box of 1000 covers.

27452-1	○ White	Biopsy Cassettes	. . .case/1000
27452-2	● Pink	Biopsy Cassettes	. . .case/1000
27452-3	● Green	Biopsy Cassettes	. . .case/1000
27452-4	● Yellow	Biopsy Cassettes	. . .case/1000
27452-5	● Blue	Biopsy Cassettes	. . .case/1000
27452-16	● Fluo Pink	Biopsy Cassettes	. . .case/1000
27452-17	● Fluo Green	Biopsy Cassettes	. . .case/1000
27452-18	● Fluo Yellow	Biopsy Cassettes	. . .case/1000

■ Biopsy Bags

These nylon biopsy bags are made for the processing of small pathology tissue samples and cytology aspirates. Tissue samples are placed or filtered into the biopsy bag. The bag is then placed into a tissue cassette and processed as normal. These nylon biopsy bags prevent the loss of small tissue samples.



27154-5	Biopsy Bags, 25 x 40mm	. . . . .box/1000
27154-6	Biopsy Bags, 45 x 75mm	. . . . .box/200
27154-7	Biopsy Bags, 75 x 95mm	. . . . .box/50

■ Cellsafe™ Biopsy Cassettes



The CellSafe™ is designed to contain small tissue fragments and biopsies during tissue processing.

The CellSafe™ Biopsy Insert with a hinged cover fits into a regular cassette. Top and bottom consist of extra fine nylon mesh preventing small tissues from getting lost during specimen preparation, keeping them safe. The plastic frame and nylon mesh are suitable for use in common tissue processing reagents including Formaldehyde solutions, Bouin's Fluid, alcohol solutions, xylene, chloroform, citrus based clearing agents and paraffin wax (melting point up to 65°C). The plastic frame is made from the same material widely used in the manufacture of plastic processing cassettes. If any unusual reagents are being used, it is suggested that preliminary chemical compatibility tests are carried out before using the CellSafe™ to contain tissue samples. The CellSafe™ is designed for single use only. ⓘ

27165 Cassettes, Cellsafe™, Biopsy Insert
30.2 x 25.4 x 2mm Hpkg/100

■ Biopsy Foam Pads



Prevent tissues from being lost during processing. Made of cellular polyester urethane foam which is always verified for consistency throughout in order to achieve optimum solvent flow. Biopsy samples are sandwiched between

two foam pads and are placed either in tissue capsules or cassettes with metal or plastic lids. Packed 1000 per bag.

27154-1 Biopsy Foam Pads for Cassettes,
30.2 x 25.4 x 2mm H1000
27154-2 Biopsy Foam Pads for Small Capsules,
25.4 x 2mm H1000
27154-3 Biopsy Foam Pads for Large Capsules,
34.55 x 2mm H1000

■ Tissue Capsules

made of polypropylene



These capsules are suitable for holding tissue samples during processing. The lids have a frosted write-on area for sample identification and an open mesh area to facilitate fluid exchange. The whole surface of the base is also an open mesh. The lid snaps securely on the base, eliminating the risk of tissue loss during processing.

27151-1 28mm dia x 5mm H ○ White1000

■ Biobond™ Tissue Section Adhesive

slide coating with advantages, especially for immunolabeling



Coating slide surfaces has been done with a variety of adhesives such as poly-L-Lysine, chrome alum and other materials but they are not suitable for immunogold labeling because of increased background caused by attraction of gold particles to the slide's adhesive.

The surface of glass slides is uneven and is activated by the silicon tetrahedral structure. Active sites are then provided for adsorption of proteins or reactions with chemicals and reagents. A coating material of low reactivity towards reagents minimizes

this possibility. Biobond™ produces a very strong adhesion between the glass and the tissue section for subsequent incubations.

Biobond™ coats a glass slide with a protective layer to minimize interaction of charged glass surfaces with reagents. This is important for reproducibility of results because of variations that occur between glass slides obtained from different sources and in different countries. It is very effective when used under severe incubating conditions such as those encountered for *in situ* hybridization.

Biobond™ is suitable for all kinds of tissue specimens including paraffin wax or resin sections, cell smears, cytopspins or cryostat sections. It is supplied in 10ml volumes sufficient to coat at least 1,000 slides. Detailed protocols provided. ⓘ

15715 Biobond™ Tissue Adhesive, 20mleach

■ Macrosette®

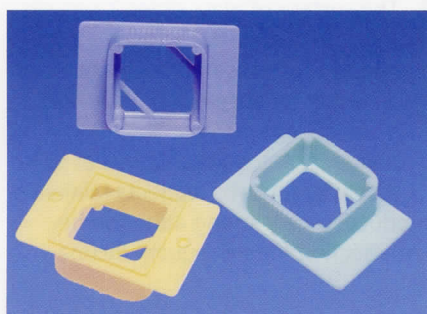


27147-6 Disposable Deep Base Mold for Macrosette®

Disposable cassette especially designed to hold larger specimens during embedding and storage. Packed in three dispenser boxes of 250.

- 27166** ○ White Macrosette® Cassettes . . .case/750
Disposable Deep Base Mold for Macrosette®
27147-6 Transparent 37x24x10mmcase/500

■ Embedding Rings

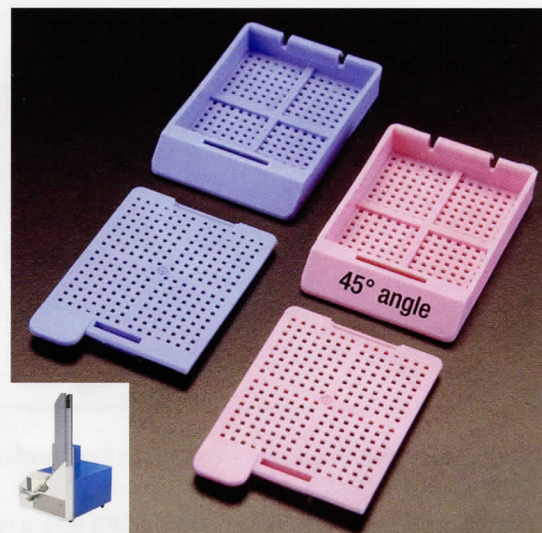


Embedding Rings are suitable for holding and identifying tissue sample blocks and fit well in microtome chuck adapters. The etched writing surface on the ring is marked with an identification number and placed on top of the sample block. Additional parafin is poured into the base mold to cement the ring onto the tissue block. The embedding ring securely holds the tissue sample in the microtome chuck adapter for sectioning and then identifies the sample while in storage. Made of polystyrene. Packed in four dispenser boxes of 250.

fin is poured into the base mold to cement the ring onto the tissue block. The embedding ring securely holds the tissue sample in the microtome chuck adapter for sectioning and then identifies the sample while in storage. Made of polystyrene. Packed in four dispenser boxes of 250.

- 27169-1** ○ White Embedding Rings . . .case/1000
27169-5 ● Blue Embedding Rings . . .case/1000

■ Swingsette™ Biopsy Cassettes



Can be used in leading automatic cassette labeling instruments

Most convenient for cassette labeling instruments since bases and covers are packed separately. This new model differs by the special hinge that holds the base and the cover together. This hinge allows cassettes to be opened and closed as often as necessary. Three frosted writing surfaces. The anterior surface is at a 45° angle. Packed in two dispenser boxes of 500 bases and one dispenser box of 1000 covers.

- | | | |
|-----------------|---------------|---------------------------------|
| 27452-1 | ○ White | Biopsy Cassettes . . .case/1000 |
| 27452-2 | ● Pink | Biopsy Cassettes . . .case/1000 |
| 27452-3 | ● Green | Biopsy Cassettes . . .case/1000 |
| 27452-4 | ● Yellow | Biopsy Cassettes . . .case/1000 |
| 27452-5 | ● Blue | Biopsy Cassettes . . .case/1000 |
| 27452-16 | ● Fluo Pink | Biopsy Cassettes . . .case/1000 |
| 27452-17 | ● Fluo Green | Biopsy Cassettes . . .case/1000 |
| 27452-18 | ● Fluo Yellow | Biopsy Cassettes . . .case/1000 |

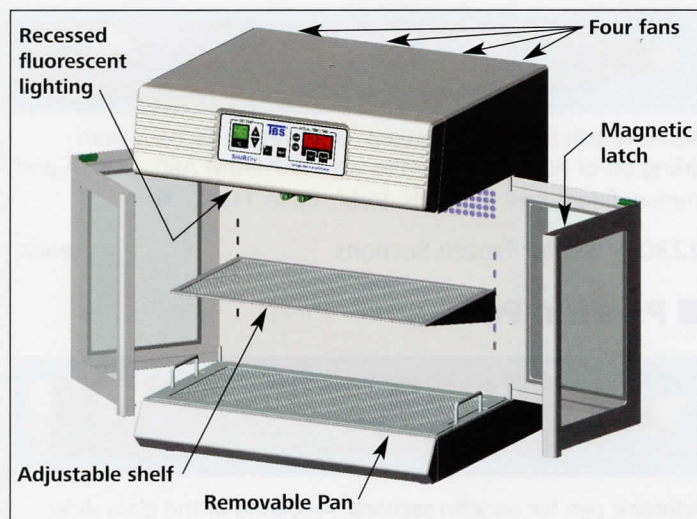
■ Biopsy Bags

These nylon biopsy bags are made for the processing of small pathology tissue samples and cytology aspirates. Tissue samples are placed or filtered into the biopsy bag. The bag is then placed into a tissue cassette and processed as normal. These nylon biopsy bags prevent the loss of small tissue samples.



- 27154-5** Biopsy Bags, 25 x 40mmbox/1000
27154-6 Biopsy Bags, 45 x 75mmbox/200
27154-7 Biopsy Bags, 75 x 95mmbox/50

■ SHUR/Dry™ Slide Dryers



SHUR/Dry™ is the most recent advancement in slide drying technology. The new design allows users to increase productivity while maintaining superior results.

- Ambient to 70°C ±1°
- Adjustable air flow
- Digital programming
- Microprocessor controlled
- Recessed fluorescent lighting
- Two adjustable shelves
- Four 3,200 RPM variable speed fans

External Dimensions: 22" W x 16" D x 20" H (56 x 41 x 51cm)
Chamber Dimensions: 19" W x 9" D x 14" H (48 x 23 x 36cm)
Weight: 70 lbs. (32kg)

- 28152** SHUR/Dry™ Slide Dryer III, forced air, 115V, 60Hz, 4.5Aeach
- 28152-220** SHUR/Dry™ Slide Dryer III, forced air, 220V, 50Hz, 2.2Aeach

■ SHUR/Trim™ Block Trimmer



An efficient appliance for removing excess paraffin from embedding tissue cassettes.

Simply slide paraffin blocks across the heated grooved surface. Melted paraffin is shaved away to disposable receptacle below. Preparing embedded tissue blocks for insertion into microtome quick release clamps has never been easier or safer.

Dimensions: 6" W x 9" D x 7" H (15.2 x 22.8 x 17.8cm)
Weight: 5 lbs (2kg)

- 28153** SHUR/Trim™ Paraffin Block Dewaxer, 115V, 50/60Hz, 4Aeach

■ Biomega Hot Plate - Stirrer

Biomega Hot Plate - Stirrer features an exceptionally durable, chemical resistant white ceramic work surface. Its space-efficient design (20.3 x 22.9cm [8" x 9"] foot-print), makes it ideal for use on crowded benchtops and inside of bio-hoods.

Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LED's on the front panel indicate when the heating and / or stirring functions have been activated. Body is sturdy, powder coated, cast aluminum construction.

A square 19cm (7.5") work surface makes it compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. Comes complete with a support rod for mounting thermometers and temperature probes.

Stirrer Speed60-1500 RPM
Temperature Range ..80-380° C / 176-716° F
Electrical Data115V, 5A, 50/60Hz or 230V, 3A, 50/60Hz
Power Consumption ..550W
Dimensions20.3 x 22.9 x 11.4cm (8" x 9" x 4.5")
Platform19 x 19cm (7.5" x 7.5")
Weight5kg (11 lbs.)

- 3235** Biomega P40-HS Hot Plate and Magnetic Stirrer with Support Rod, 115Veach
- 3235-230** Biomega P40-HS Hot Plate and Magnetic Stirrer with Support Rod, 230Veach

■ Background Buster

peptide blocker for removal of background staining

For use in: Immunohistochemistry, Immunofluorescence, *in-situ* probe staining. Background staining or non-specific staining is a common problem in immunohistochemistry, immunofluorescence and *in-situ* probe staining reducing the signal to noise ratio. Background Buster is a peptide blocker that eradicates all general background staining caused by primary antibodies, staining reagents, chromogens, fixatives, and endogenous biotin. Background Buster is used in place of normal sera and other blocking agents for removing background in both animal and human tissue staining. Eradicating background, thereby increasing the signal to noise ratio is important for obtaining background-free specific staining for the ease of qualitative and quantitative evaluation of staining procedures.

Note: Nonspecific staining due to red blood cells is caused by endogenous peroxide enzyme in the red blood cells. This type of background requires a pre-treatment step with 3% hydrogen peroxide in water. This blocking step should precede the blocking step with Background Buster.

- 18722-50** Background Buster, 50mleach
- 18722-125** Background Buster, 125mleach





PAP Pens for Immunohistochemical Applications, Adhesive Pens and Lab Markers

■ Super PAP Pens

ready-to-use hydrophobic barrier pens



PAP Pens are used for immunohistochemical applications. The hydrophobic properties allow the user to draw barriers on the slide, in any pattern, to confine the flow of reagents to a defined area. A minimum of valuable antiserum will be used. Visible marking as light green/blue and can be removed with xylene.

For immunohistochemistry, the PAP Pen should be applied after deparaffinization.  

Directions:

1. Deparaffinize tissue sections and hydrate to water.
2. Wipe away excess liquid around the section on the glass slide with tissue paper.
3. Encircle the tissue section or draw lines on both sides of the section and let dry (10-15 seconds). Soak slides in PBS.


22309 Super PAP Pen Liquid Blocker, regular size, approx. 16.5mleach

22311 Super PAP Pen Liquid Blocker, mini size, approx. 7.5mleach

■ ImmEdge™ Pen




The ImmEdge™ Pen, a hydrophobic barrier pen for immunohistochemistry and *in situ* hybridization detection methods, is designed for use with frozen or paraffin-embedded tissue sections mounted on glass slides. The ImmEdge™ Pen provides a water-repellent barrier that keeps staining reagents localized on the tissue sections, prevents mixing of reagents when differentially staining two sections on the same slide, and allows the use of less reagents per section.

The boundary deposited by the ImmEdge™ Pen is lightly colored and easily visible. It is insoluble in alcohol and acetone, but is removed by most clearing agents. The ImmEdge™ Pen is compatible with all commonly used enzyme or fluorescent-based detection systems. 

22312 ImmEdge™ Peneach

■ Pen for Frozen Sections




Adhesive pen for frozen sections. Will prevent sections from falling off or wrinkling. Effective with PAP/PAAP, ABC, LAB-SA and immunofluorescent methods. Stable up to 110°C. 

22302 Pen for Frozen Sectionseach

■ Paraffin Pen




Adhesive pen for paraffin sections. A coating of the glass slide will prevent paraffin sections from falling off or wrinkling. Will flatten sections in room temperature water. Stable to 120° C. 

22301 Paraffin Peneach

■ Tissue Capture Pen

one pen for two applications




The Tissue Capture Pen for use with frozen or paraffin sections. A coating of the glass slide will prevent the sections from falling off or wrinkling. Stable up to 110°C. Pen contains material for 3000-5000 applications. 


22310 Tissue Capture Peneach


■ Grid Coating Pen



A light touch with this pen will provide a thin layer of adhesive on the grid. Layer will dry in 1-2 minutes at room temperature and is then ready to receive the sections. Pen may also be used as pre-treatment before coating grids with formvar or other thin films. 

1556 Grid Coating Peneach

 = MSDS on web page

 = Tech Note on web page

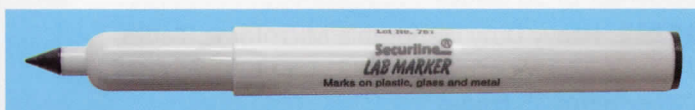
■ STATMARK™ Permanent Marker for Cassette and Slide Marking



The STATMARK™ Pen is the ideal black marker - the one that histology and cytology labs have been waiting for. It has a permanent ink that resists even the harshest chemicals, including formalin, ethanol, isopropanol and xylene. The writing remains clean, clear and legible throughout the range of laboratory procedures - including processing and staining. The ink dries quickly and will not run or smear. It lasts through fixatives, baths, dips, stains, bleaches and more. Best of all, the STATMARK™ Pen will not readily dry out!

22313 STATMARK™ Penbox/12

■ Securline® Lab Marker



General Use: Microbiology, Histology
Writing Surface: Polystyrene petri dishes, metal, glass and most plastic, cold moist surfaces.

Resistant To: Autoclaving and water. Removed from nonporous surfaces with mineral oil or petroleum jelly.
Durable porous plastic tips with permanent, quick-drying, water resistant ink that writes on cold or wet surfaces, plastic bags, or disposable labware. Markings will not smear on reusable glass, metal, or porcelain labware, but can be scrubbed off. Suitable for general lab, hospital or industrial use. (black)
Not suitable for freezing temperatures below 0°C (32° F)

27175 Securline® Lab Marker, Extra Fine Tip,
Blackpkg/5

■ Securline® Marker II/Superfrost



General Use: Histology, Cytology

Writing Surface: Plastic embedding cassettes and frosted end of microscope slides.

Resistant To: Water, ethanol, formalin, xylene and other solvents. Removes from nonporous surfaces with acetic acid, chloroform or ethanol/xylene mixture.

Ultra-permanent ink that resists solvents such as xylene, ethanol, acetone and formalin. Ideal for histology and cytology. Markings will not run on embedding cassettes, frosted or painted slides or labware through repeated washes and solutions. Markings can be removed with acetic acid, ethanol/xylene mixture or paraffin.

continued

Testing is advised before use on actual specimens. (Black)
Service temperature range -15°C to 100°C (5°F to 212°F).

27176 Securline® Lab Marker II, Blackpkg/5

■ Moist Mark Plus™ Pen



Premium Slide/Cassette Marker - Resistant to all solvents. Writes smooth, dark and fine on all cassettes and all slides. Use for cytology as a "dotting" reference marker as well.

22314 Moist Mark™ Plus Penbox/10

■ Manomark™ Pens

all surface markers



Writes on all plastics, glass, metal, wood, paper and cloth, including PTFE fluoropolymer resins. A precision seal valve provides smooth ink flow and preserves the pen's life, even if it's left uncapped. When dry, the solvent based ink is temperature resistant from 0°C to 155°C (32°F to 310°F). Markings are insoluble in water or hydrocarbons, resists many solvents and are easily removed with alcohol.

27305 Manomark™ Pens, blackbox/12
27305-A Manomark™ Pens, assorted colors: 4 black,
2 red, 2 green, 2 blue, 2 orangebox/12

■ Write in the Dark with a Lighted Pen



Equipped with a polished quality industrial diamond that is a neon blue LED lighted ball point pen. With batteries and extra ink refill.

27172 Pen with Lighteach

■ 3M™ Diamond Scriber



Plastic pen-like shaft; diamond tip. Marks glass slides, scribes metal, scores for breaking glass. Tip angle: 90°; Shaft diameter: 3.15mm (.124"); Shaft length from handle, with diamond: 5.9mm (.232"); Diamond diameter, exposed: 1.14mm (.045"); Diamond length, exposed: .86mm (.034"); Overall length, without cap: 155.6mm (6.125").

54463 3M™ Diamond Scribereach

Microtome Blades, Disposable

■ Tissue-Tek® Accu-Edge® High and Low Profile Disposable Blades



- Reliably sharp, uniformly consistent
- Ultrasharp edges with PTFE resin coating
- Obtain acceptable ribbons sooner
- Increase quality sections
- Low profile for sections less than 3µm

- High profile for tough material and sections over 3µm

For Sale in U.S.A. Only

27235 Accu-Edge® 4689 Low Profile Blades, 80 L x 8.31 W x 0.26mm T (3.15" L x .327" W x .01" T) Dispenser of 50 blades,each

27236 Tissue-Tek® Feather® 4980 Low Profile Blades, 80 L x 8 W x 0.24 mm T (3.15" L x .315" W x .009" T) Dispenser of 50 blades,each

27237 Accu-Edge® 4685 High Profile Blades, 75.7 L x 14 W x 0.31mm T (2.98" L x .55" W x .012" T) Dispenser of 50 blades,each

■ DuraEdge™ Microtome Blades

PTFE coated Low and High Profile blades



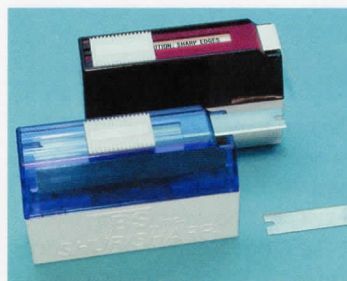
- High quality hardened stainless steel finely honed and polished for flaw-free edge.
- Special proprietary process ensures edge quality and promotes durability.
- Uniform PTFE coating reduces friction, eliminates striations and compressions, and requires no break-in period.
- Economy High Profile blades Ceramic coated, eliminating edge corrosion and enhancing product life.

27239 DuraEdge® 7221 Low Profile disposable Microtome Blades, PTFE coated, 77 L x 8 W x .3mm T (3" L x .315" W x .012" T), Dispenser of 50 blades ...each

27241 DuraEdge® 7310 High Profile disposable Microtome Blades, PTFE coated, 77 L x 14 W x .3mm T (3" L x .55" W x .012" T), Dispenser of 50 blades ...each

27243 DuraEdge® 7203 High Profile disposable Microtome Blades, ceramic coated, economy, 77 L x 14 W x .3mm T (3" L x .55" W x .012" T), Dispenser of 50 bladeseach

■ Shur/Sharp™ Disposable Microtome Blades



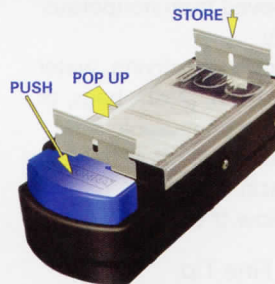
Choose from these three disposable microtome blades to meet all your sectioning needs. Standard Low Profile blades for routine thin tissue samples, High Profile blades for thicker sections and Heavy Duty for difficult to section samples like uterus.

27230 Standard Low Profile Disposable Microtome Blades, 76 L x 7.93 W x 0.3mm T (3" L x .312" W x .012" T), Dispenser of 50 blades ...each

27231 High Profile Disposable Microtome Blades, 76 L x 14.05 W x 0.3mm T (3" L x .553" W x .012" T), Dispenser of 50 bladeseach

27232 Heavy Duty Disposable Microtome Blades, 76.2 L x 12.6 W x 0.52mm T (3" L x .498" W x .02" T), Dispenser of 35 bladeseach

■ Single Edge, Carbon Steel Gem® Blades in Pop Up Dispenser



Single edge, carbon steel Gem® blades in a handy plastic dispenser box of 100 blades. Push down on blue tab and a new blade pops up. Store used blades in rear slot for safe disposal.

121-111 Single Edge, Carbon Steel Gem® Blades in Pop Up Dispenser, box of 100each

■ Mini Scraper



Holds one single edge blade securely. Easily remove blade by pulling back center tab on handle. Can place


blade in holder with blade in to guard cutting edge. Comes with one single edge blade.

54560 Mini Scraper with one bladepkg/5

■ Tissue-Tek® Microtome Lubrication Kit

by Sakura Finetek

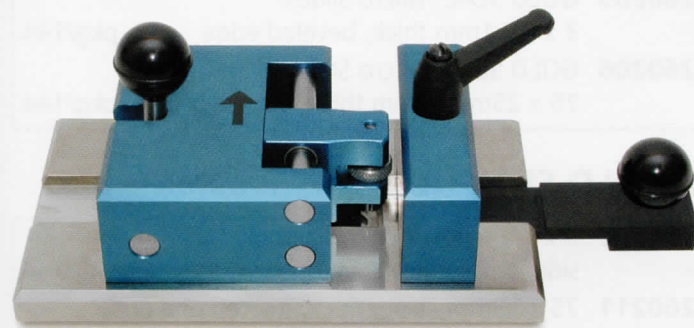


Kit contains special low-temperature lubricants necessary for routine maintenance of the Tissue-Tek® Cryostat Microtomes. Includes Oil A, Oil B and Grease G. **For Sale in U.S.A. Only** 

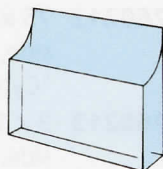
27244 Tissue-Tek® Microtome Lubrication Kiteach

■ PELCO® Ralph Glass Knife Maker

produce ultra sharp glass knives for sectioning specimens for light microscopy



Produces ultra sharp glass knives quickly and dependably from 6mm thick glass strips, 25.4mm wide. Can be used with rotary, retracting sledge. These glass knives will cut glycol methacrylate or paraffin sections equally well. For glass see 8050 below. **Not for producing ultramicrotome knives.**



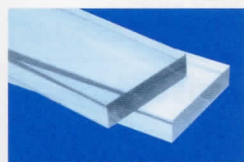
Ralph Knife

8702 PELCO® Ralph Glass Knife Makereach

PELCO® Ralph Glass Knife Maker Replacement parts:

8702-3 Knife Maker Cutter Wheeleach

8702-4 Knife Maker Breaking Padeach



■ Histo-Glass Strips

3 Sizes; Use 8050 for the PELCO® Ralph Glass Knife Maker.

8050 Histo-glass Strips,
25mm x 200mm x 6mmpkg/12

8054 Histo-glass Strips,
25mm x 400mm x 6mmpkg/30

8055 Histo-glass Strips,
25mm x 200mm x 12mmpkg/16

■ Tungsten Carbide Knife

for sectioning hard samples, GMA, epoxy resins
sample preparation for microscopy

Triangular design

Will fit all ultramicrotomes with glass knife stages. Section samples that will destroy glass knives and disposable steel knives. Able to section larger specimens than possible with diamond knives. Sections hard specimens like bone and teeth and other difficult samples.



Economical

Tungsten Carbide Knives are a fraction of the cost of diamond knives and are more durable than all other knives.

Specifications

Material: tungsten carbide steel

Edge length: 10mm

Height: 25mm

Angle: 35°

121-50 Tungsten Carbide Knivespkg/3

Microscope Slides

■ Corning® Glass Microscope Slides

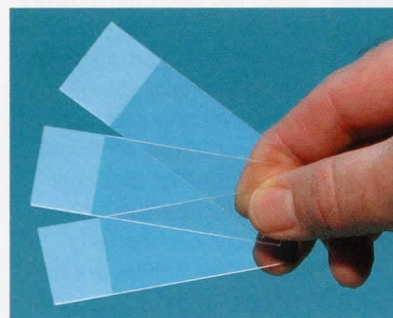


Finest quality non-corrosive glass, with finely ground edge. Precleaned and packed vertically, 72 slides per box, 2 boxes per package.

2.95 x 1.96" (75 x 50mm), Plain (no frosted end)
thickness: .038 to .042" (0.96 to 1.06mm)

26005 Corning® Glass Slides 75 x 50mmpkg/144

■ Corning® Frosted End, One Side, 3 x 1"



3 x 1" (76.2 x 25.4mm),
Frosted End

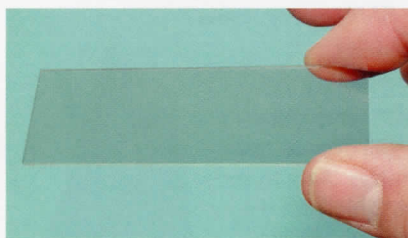
thickness: .038 to .042"
(0.96 to 1.06mm)

Packed 72 slides per box.



26003 Corning® Glass Slides, 3 x 1" frosted end . .pkg/72

■ Plain Glass Microscope Slides



Clear, premium quality, water white glass, pre-cleaned, ready to use. Choice of 2 sizes. 0.97 to 1.07mm thick.

26007 Glass Microscope Slide, plain 3 x 1"pkg/144

26008 Glass Microscope Slide, plain 75 x 25mmpkg/144

■ Economy Slides



Made from clear soda lime corrosion resistant glass. Pre-cleaned slides with a size of 3" x 1" and a .039 -.047" thickness (76.2 x 25.4mm and a 1-1.2mm thickness). Ground edges. No notable interference from UV absorption or reflection in the 250-350nm range (tested with 280nm). Available as plain or single frosted slides with beveled edges and single frosted with fine ground edges, 144 slides per package.

260440 Single Frosted Economy Glass Microscope Slides, 3 x 1"pkg/144

260441 Plain Economy Glass Microscope Slides, Beveled Edges, 3 x 1"pkg/144

260442 Single Frosted Economy Glass Microscope Slides, Beveled Edges, 3 x 1"pkg/144

■ GOLD SEAL® Micro Slides



For over 50 years the GOLD SEAL® line of Microscope slides has been the industry standard for quality and reliability. These products undergo the most stringent manufacturing and inspection procedures achievable in the industry, ensuring our customers the highest,

and most consistent quality available. To preserve this quality from manufacture to ultimate use, all GOLD SEAL® slides are hermetically sealed in the Moisture-Barrier™ system providing a dry-slide environment during shipment and storage. This desiccated air-tight package eliminates moisture exposure that can degrade the slide surface, causing poor wettability and causing haziness found in other microscope slide products. All Gold Seal® cover glass is made from pre-selected, pre-cleaned silicate glass. It is available in various shapes and thicknesses and is packaged with

desiccants in lint-free boxes. All slide boxes convert to convenient slide storage files. ⓘ (Tech Note on web page)

■ GOLD SEAL® Micro Slides

260200 GOLD SEAL® Micro Slides 3 x 1", 1mm thickpkg/144

260201 GOLD SEAL® Micro Slides 3 x 1", 1mm thick, Cytogenetics Processingpkg/144

260202 GOLD SEAL® Micro Slides 75 x 25mm, 1mm thickpkg/144

260203 GOLD SEAL® Micro Slides 3 x 1", 1.2mm thickpkg/144

260204 GOLD SEAL® Micro Slides 75 x 25mm, 1.2mm thickpkg/144

260205 GOLD SEAL® Micro Slides 3 x 1", 1mm thick, beveled edgepkg/144

260206 GOLD SEAL® Micro Slides 75 x 25mm, 1mm thick, beveled edge .pkg/144

■ GOLD SEAL® Rite-On™ Frosted Slides

260210 3 x 1", 1mm thick, frosted one end, one side, with brilliant white epoxy inkpkg/144

260211 75 x 25mm, 1mm thick, frosted one end, one side, w/brilliant white epoxy ink . .pkg/144

260212 75 x 25mm, 1mm thick, frosted one end, one side, w/brilliant white epoxy ink, "Cytogenetics Processing"pkg/144

260213 3 x 1", 1.2mm thick, frosted one end, one side, w/brilliant white epoxy inkpkg/144

260214 3 x 1", 1mm thick, frosted one end, both sidespkg/144

260215 3 x 1", 1.2mm thick, frosted one end, both sidespkg/144

260216 3 x 1", 1mm thick, "Beveled Edge", frosted one end, both sidespkg/144

260217 75 x 25mm, 1mm thick, "Beveled Edge", frosted both sides on one endpkg/144

■ GOLD SEAL® UltraFrost™ Frosted Slides

260218 75 x 25mm, 1mm thick, one end twin frosted w/white epoxy ink; standard frost on reverse sidepkg/144

260219 75 x 25mm, 1mm thick, white epoxy ink frosted one end, one side; GOLD SEAL® logo printed keypkg/144

260220 75 x 25mm, 1mm thick, white epoxy ink frosted one end, one side; with preprinted patient information labeling and GOLD SEAL® logo printed keypkg/144

GOLD SEAL® Products are of the highest quality.

Your quality slides require care. Protect them from conditions described below.

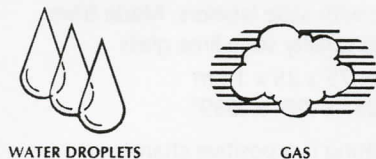
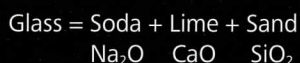


diagram A

can interfere with viewing specimen samples, cause glass slides to stick together and may alter cell structures (see diagram A).

Glass is inert to almost everything except hydrofluoric acid and caustic alkaline solution. This is why it makes an ideal material for microscope slides.

All microscope slides are manufactured from the soda lime formula (see formula).



formula

When microscope slides come into contact with the atmosphere, water molecules split and hydrogen attacks the glass surface and frees Na. Sodium (Na) combines with carbon dioxide (CO_2) to form sodium carbonate (Na_2CO_3), and sodium also combines with hydroxyl ions to form sodium hydroxide (NaOH).

In the early stages of deterioration, caustic sodium hydroxide and sodium carbonates are being formed. The sodium carbonates and water appear on the glass surface as white spots and white film, interfering with specimen viewing.

In the advanced stages the sodium hydroxide begins to dissolve the glass (see diagram C). By this time the carbonates have accumulated to the point where the entire surface of the glass slide is heavily coated with a white film. The pH can rise to a level as high as 12, destroying cells.

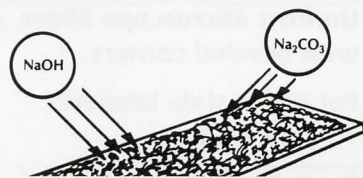


diagram C

Normal packaging, even cellophane wrapped or those that are packed in plastic boxes do not afford total protection. They are porous to moisture and air and do not provide a means to remove moisture from the package.

Moistur-Barrier® seals all moisture out and absorbs all moisture trapped inside (see diagram D). Moistur-Barrier® is made up of a plastic foil sealed liner and enclosed desiccant. This patented protective package keeps GOLD SEAL®

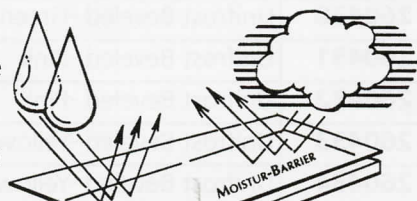


diagram D

Microscope Slides factory fresh through shipping and storage in all kinds of weather until you cut open the seal in your laboratory.

Courtesy of Thermo Fisher Scientific

(See our Barner Foil Ziplock pouches under "storage")

■ GOLD SEAL® UltraStick™ Microslides

GOLD SEAL® UltraStick™ Microscope slides offer:

- Superior adhesion of histological and cytological specimens
- Unsurpassed adhesion quality
- Saves valuable lab time with pre-coated slides
- Ultrafrost writing area for clear and accurate labeling
- Moistur-Barrier™ packaging system for dry slides

UltraStick™ microslides are ideal for histological and cytological applications demanding superior specimen-to-slide adhesion. The enhanced silane coating, APTES (3-Amino-PropylTriEthoxySilane), eliminates tedious lab coating procedures and special additives to your water bath. Simply open the Moistur-Barrier™ sealed case and your guaranteed fresh slides are ready for use. Procedures such as immunoperoxide, *in situ* DNA hybridization, enzyme digestion and frozen tissue processing will benefit from the enhanced adhesion characteristics of this product. An additional advantage is the clear and accurate labeling on the Ultrafrost™ writing area.

260224 75 x 25mm, 1mm thick, surface coated for adhesion, frosted one end, one side . . .pkg/144

■ Cytology Slides

260221 3 x 1", 1mm thick, completely frosted on one side, by sandblastpkg/144

260222 3 x 1", 1.2mm thick, completely frosted on one side, by sandblastpkg/144

■ Fluorescent Antibody Slides

260223 3 x 1", 1.2mm thick, with two 10mm circles, frosted one end, one side, with white epoxy ink, including circlespkg/144

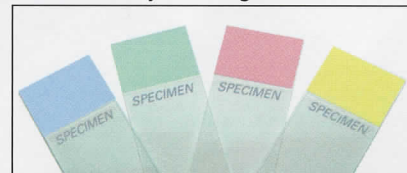
■ Colorfrost™ Microscope Slides

Feature superior chemical resistance, easy marking and convenient identification mark

"SPECIMEN" for easy orientation. Precleaned slides are made of top-quality, clear, corrosion-resistant glass with flat

surfaces and smooth rounded edges. Packed 72 per dispenser, 2 dispensers per package for a total of 144.

2.95 x .98" (75 x 25mm) thickness: .039" (1mm)



260106 Colorfrost™ Microscope Slides, 3 x 1"

• Blue Markingpkg/144

260108 Colorfrost™ Microscope Slides, 3 x 1"

• Green Markingpkg/144

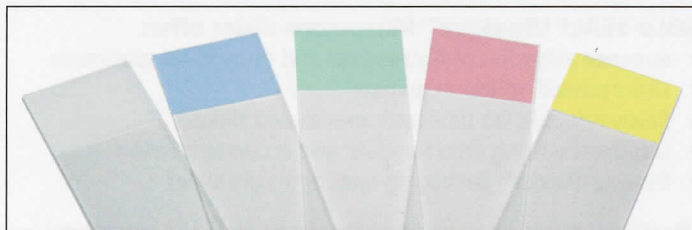
260110 Colorfrost™ Microscope Slides, 3 x 1"

• Pink Markingpkg/144

260112 Colorfrost™ Microscope Slides, 3 x 1"

• Yellow Markingpkg/144

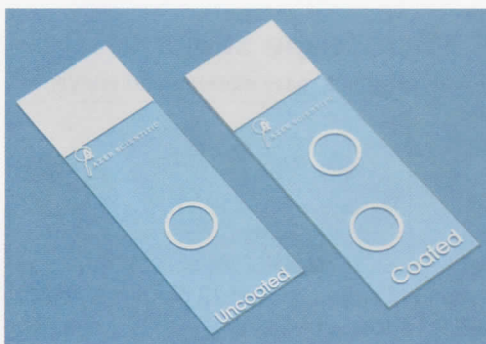
■ Superfrost™ Plus Microscope Slides



Features the same outstanding performance as Colorfrost™ Disposable slides, except with a special treatment process that electrostatically adheres tissue sections and cells to the glass without the need for special adhesives or protein coatings - an ideal choice for frozen sections and cytocentrifuge preparations and standard Papanicolaou smears. Plus, the special treatment virtually eliminates tissue loss during staining and saves hours of slide preparation. White or colored area can easily be marked to identify slides throughout the procedure. Size 2.95 x .98" (75 x 25mm).

- 260100** Superfrost™ Plus Microscope Slides, 75 x 25mm
○ White Markingpkg/144
- 260101** Superfrost™ Plus Microscope Slides, 75 x 25mm
● Blue Markingpkg/144
- 260102** Superfrost™ Plus Microscope Slides, 75 x 25mm
● Green Markingpkg/144
- 260103** Superfrost™ Plus Microscope Slides, 75 x 25mm
● Pink Markingpkg/144
- 260104** Superfrost™ Plus Microscope Slides, 75 x 25mm
● Yellow Markingpkg/144

■ Cytology Spin Slides



Available in single or double well, uncoated or positively charged.

Size:
75 x 25 x 1mm
(2.95" x .98" x .039")

- 260444** Cytology Spin Slides, Single Well,
Uncoatedpkg/144
- 260445** Cytology Spin Slides, Double Well,
Uncoatedpkg/144
- 260446** Cytology Spin Slides, Single Well,
Positively Chargedpkg/144
- 260447** Cytology Spin Slides, Double Well,
Positively Chargedpkg/144

■ Unifrost Microscope Slides



Provided with frosted on end, one side. Uncoated or coated with a positive charge. Also available with beveled corners and ground edges for use with slide labelers. Made from high quality soda lime glass
Size: 75 x 25 x 1mm
(2.95" x .98" x .039")

Coating is a positive charge.

Unifrost Microscope Slides, one frosted end 75 x 25 x 1mm

Prod. No.	Description - End Color	Coated +	Qty
260409	Unifrost -White ○		144
260410	Unifrost -White ○	+	144
260411	Unifrost -Blue ●		144
260412	Unifrost -Blue ●	+	144
260413	Unifrost -Green ●		144
260414	Unifrost -Green ●	+	144
260415	Unifrost -Pink ●		144
260418	Unifrost -Pink ●	+	144
260420	Unifrost -Yellow ●		144
260424	Unifrost -Yellow ●	+	144

Unifrost Microscope Slides, one frosted end, with beveled corners.

For use in slide labelers
75 x 25 x 1mm

Prod. No.	Description - End Color	Coated +	Qty
260425	Unifrost Beveled -White ○		144
260426	Unifrost Beveled -White ○	+	144
260427	Unifrost Beveled -Blue ●		144
260428	Unifrost Beveled -Blue ●	+	144
260429	Unifrost Beveled -Green ●		144
260430	Unifrost Beveled -Green ●	+	144
260431	Unifrost Beveled -Pink ●		144
260432	Unifrost Beveled -Pink ●	+	144
260433	Unifrost Beveled -Yellow ●		144
260434	Unifrost Beveled -Yellow ●	+	144

Treated Plastic Microscope Slides

75 x 25 x 1.1mm

These versatile, low-cost microscope slides can be used wherever glass slides are used, including sample preparation in the field.

They are safer than glass slides because they are

more impact resistant than ordinary glass slides. Plastic slides do not leave any sharp edges when broken. Two versions of plastic microscope slides are offered. One is made of general purpose "crystal" polystyrene and the other is made of UTV (UV Transmittable) acrylic. Their transparency and optical quality are identical to viewing through a flat-bottom microplate well.

The surfaces are tissue culture treated and gamma sterilized and can therefore be used with the following applications:

- Cell and tissue culture studies.
- Immunofluorescence and immunostaining for cytology, histology, parasitology, bacteriology and virology, etc.
- Immobilization of DNA, nucleic acids, antibodies, proteins and other small molecules.
- Protein printing and microarrays.
- Hybridization studies.

These slides are produced under rigorous quality control conditions for clean and uniform surfaces with low background readings. They have enhanced protein binding characteristics. They are RNase and DNase free.

The slides are not resistant to the following chemicals: ethanol, methanol, phenol, organic acids (e.g.: acetic acid), gasoline, aromatic solvents (e.g.: benzene, toluene, xylene and turpentine), chlorinated hydrocarbons (e.g.: dichloromethane methylene chloride and tetrachloride), ketones and others.

260225 Plastic Microscope Slides, treated, polystyrene (75 x 25 x 1.1mm)pkg/25

260226 Plastic Microscope Slides, treated, UVT acrylic (75 x 25 x 1.1mm)pkg/25

Slides for Large Tissues

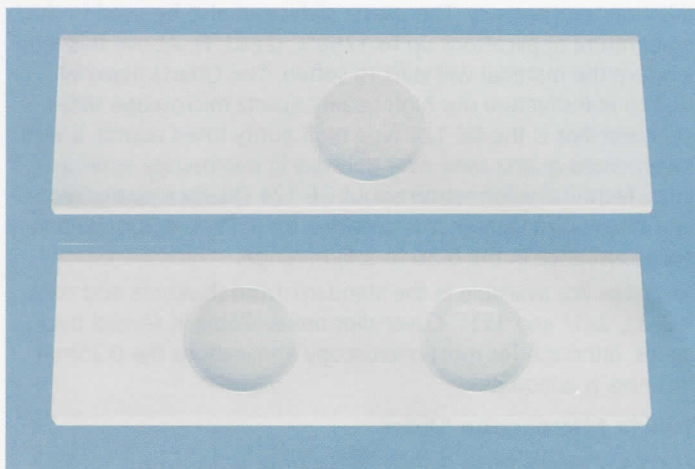


These slides are 1.2mm thick and are sold in packages of 36. Not available with frosted ends.

continued

260230	Glass Slides, 3" x 4" (76 x 102mm)pkg/36
260231	Glass Slides, 3-1/4" x 4" (83 x 102mm) . . .pkg/36
260232	Glass Slides, 4" x 5" (102 x 127mm) . . .pkg/36
260233	Glass Slides, 4-1/2" x 6" (114 x 152mm) .pkg/36
260234	Glass Slides, 5" x 7" (127 x 178mm) . . .pkg/36

Concavity Slides with Single and Double Wells



Microscopy slides with single or double precisely ground and polished spherical depressions or cavities. Also known as depression or well slides. The concave wells are particularly useful for holding liquid samples. Also useful for tissue cultures. Slide dimensions are 26 x 76mm with a nominal thickness of 1.1mm (varies between 1 - 1.2mm). Well size is 15mm diameter and 0.5 - 0.55mm deep. Packed in a box of 50 slides. Each slide separated by optical lens paper.

260241 Concavity Slide with Single Wellpkg/50

260242 Concavity Slide with Double Wellspkg/50

■ Quartz Microscope Slides and Coverslips

Quartz microscope slides and cover slips are a necessity for microscopy applications where UV transparency is needed. They can also be used for high end microscopy applications to reduce signal loss due to absorption.

Other applications can involve UV radiation transparency. The quartz slides can also be used for high temperature applications up to 1250°C (2282°F). Above this temperature the material will start to soften. The Quartz material used to manufacture our high quality quartz microscope slides and coverslips is the GE 124 type high purity fused quartz, a well documented quartz used over decades in microscopy applications. Technical information about GE 124 Quartz is available on our website. Transparency is provided for 0.19 to 4.2µm with very low absorbance in the 0.26 to 2.6µm range.

Coverslips are available in the standard 1mm thickness and sizes of 3x1", 2x1" and 1x1". Cover slips are available in several thicknesses, although for most microscopy applications the 0.25mm thickness is adequate.

Quartz Microscope Slides

- 26011** Quartz Slide, 3" x 1" (76.2mm x 25.4mm), 1mm thickeach
- 26012** Quartz Slide, 2" x 1" (50.8mm x 25.4mm), 1mm thickeach
- 26013** Quartz Slide, 1" x 1" (25.4mm x 25.4mm), 1mm thickeach

Cover Glass and Coverslips

Quartz Coverslips

- 26016** Quartz Coverslip, 19 x 19 x 0.5mm thickeach
- 26017** Quartz Coverslip, 19 x 19 x 0.25mm thickeach
- 26014** Quartz Coverslip, 22 x 22 x 0.25mm thickeach
- 26018** Quartz Coverslip, 25.4mm diameter x 0.25mm thickeach
- 26019** Quartz Coverslip, 18mm dia. x 0.25mm thick .each

■ GOLD SEAL® Cover Glass

All GOLD SEAL® glass Coverslips are made from pre-selected, pre-cleaned silicate glass. It is available in various shapes and thicknesses and is packaged with desiccants in lint-free boxes. Corning 0211 Glass Coverslips ⓘ

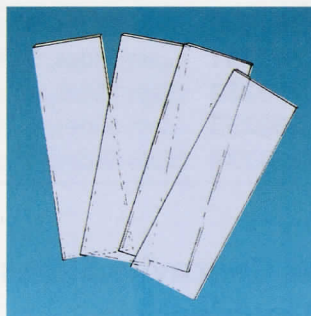
Thickness #0, Standard Squares, 0.08-0.13mm

260300 GOLD SEAL® Cover Glass, No. 0, 22x22mm 1 oz

Thickness #0, Standard Rectangles, 0.08-0.13mm

260320 GOLD SEAL® Cover Glass, No. 0, 24x60mm 1 oz

ⓘ = Tech Note on web page



Thickness #1, Standard Squares, 0.13-0.16mm

- 260340** GOLD SEAL® Cover Glass, No. 1, 18x18mm 1 oz
- 260341** GOLD SEAL® Cover Glass, No. 1, 22x22mm 1 oz
- 260342** GOLD SEAL® Cover Glass, No. 1, 25x25mm 1 oz

Thickness #1, Standard Rectangles, 0.13-0.16mm

- 260350** GOLD SEAL® Cover Glass, No. 1, 12x24mm 1 oz
- 260351** GOLD SEAL® Cover Glass, No. 1, 22x30mm 1 oz
- 260352** GOLD SEAL® Cover Glass, No. 1, 22x35mm 1 oz
- 260353** GOLD SEAL® Cover Glass, No. 1, 22x40mm 1 oz
- 260354** GOLD SEAL® Cover Glass, No. 1, 22x50mm 1 oz
- 260355** GOLD SEAL® Cover Glass, No. 1, 22x60mm 1 oz
- 260356** GOLD SEAL® Cover Glass, No. 1, 24x30mm 1 oz
- 260357** GOLD SEAL® Cover Glass, No. 1, 24x35mm 1 oz
- 260358** GOLD SEAL® Cover Glass, No. 1, 24x40mm 1 oz
- 260359** GOLD SEAL® Cover Glass, No. 1, 24x50mm 1 oz
- 260360** GOLD SEAL® Cover Glass, No. 1, 24x60mm 1 oz
- 260361** GOLD SEAL® Cover Glass, No. 1, 35x50mm 1 oz
- 260362** GOLD SEAL® Cover Glass, No. 1, 35x60mm 1 oz
- 260363** GOLD SEAL® Cover Glass, No. 1, 43x50mm 1 oz
- 260364** GOLD SEAL® Cover Glass, No. 1, 48x60mm 1 oz
- 260365** GOLD SEAL® Cover Glass, No. 1, 48x65mm 1 oz

Thickness 1.5, Standard Circles, 0.13-0.16mm

- 260373** GOLD SEAL® Cover Glass, No. 1, 13mm dia. 1 oz
- 260374** GOLD SEAL® Cover Glass, No. 1, 16mm dia. 1 oz
- 260370** GOLD SEAL® Cover Glass, No. 1, 19mm dia. 1 oz
- 260371** GOLD SEAL® Cover Glass, No. 1, 22mm dia. 1 oz
- 260372** GOLD SEAL® Cover Glass, No. 1, 25mm dia. 1 oz

Thickness #1.5, Standard Squares, 0.16-0.19mm

- 260405** GOLD SEAL® Cover Glass, No. 1.5, 18x18mm1 oz
- 260406** GOLD SEAL® Cover Glass, No. 1.5, 22x22mm1 oz
- 260400** GOLD SEAL® Cover Glass, No. 1.5, 22x22mm (Blood Smear)1 oz

Thickness #1.5, Standard Rectangles, 0.16-0.19mm

- 260416** GOLD SEAL® Cover Glass, No. 1.5, 22x40mm1 oz
- 260417** GOLD SEAL® Cover Glass, No. 1.5, 22x50mm1 oz
- 260419** GOLD SEAL® Cover Glass, No. 1.5, 24x30mm1 oz
- 260421** GOLD SEAL® Cover Glass, No. 1.5, 24x40mm1 oz
- 260422** GOLD SEAL® Cover Glass, No. 1.5, 24x50mm1 oz
- 260423** GOLD SEAL® Cover Glass, No. 1.5, 24x60mm1 oz

Thickness #2, Standard Squares, 0.17-0.25mm

- 260435** GOLD SEAL® Cover Glass, No. 2, 22x22mm 1 oz

■ Round Glass Coverslips



Thickness No.1, 0.13 to 0.17mm. ⓘ

26020	Coverslips, No.1, 12mm diameter.	1 oz.
26023	Coverslips, No.1, 12mm diameter	¼ oz.
26021	Coverslips, No.1, 15mm diameter	1 oz.
26024	Coverslips, No.1, 15mm diameter	¼ oz.
26022	Coverslips, No.1, 18mm diameter	1 oz.

■ Micro Glass Coverslips

Individually Selected - Superior quality

Cleaned, cut, sorted and made of especially processed borosilicate glass Type 0211. ⓘ

260156	Micro Cover Glass, No. 2, 22 x 22mm	1 oz
260158	Micro Cover Glass, No. 2, 22 x 30mm	1 oz
260160	Micro Cover Glass, No. 2, 22 x 40mm	1 oz
260162	Micro Cover Glass, No. 2, 22 x 50mm	1 oz
260140	Micro Cover Glass, No. 1, 22 x 22mm	1 oz
260142	Micro Cover Glass, No. 1, 22 x 30mm	1 oz
260144	Micro Cover Glass, No. 1, 22 x 40mm	1 oz
260146	Micro Cover Glass, No. 1, 22 x 50mm	1 oz
260148	Micro Cover Glass, No. 1.5, 22 x 22mm . . .	1 oz
260150	Micro Cover Glass, No. 1.5, 22 x 30mm . . .	1 oz
260152	Micro Cover Glass, No. 1.5, 22 x 24mm . . .	1 oz
260154	Micro Cover Glass, No. 1.5, 22 x 50mm . . .	1 oz

■ Superslip® Micro Cover Glass

for use in automatic coverslipppers

Cleaned, cut, sorted and made of especially processed borosilicate glass Type 0211. ⓘ

260164	Micro Cover Glass, No. 1, 24 x 40mm	1 oz
260166	Micro Cover Glass, No. 1, 24 x 50mm	1 oz
260168	Micro Cover Glass, No. 1, 24 x 60mm	1 oz

■ Thermanox™ Coverslips

Thermanox™ or TMX coverslips are made of a polymer, in the polyolefin family, that is highly resistant to most chemicals. They are resistant to alcohols, aldehydes, hydrocarbons, dilute acids (<10%) and dilute alkalis (<2%). Thermanox™ has limited resistance to chlorinated hydrocarbons and it is not resistant to concentrated acids or bases. It is a flexible transparent polymer that can be easily sectioned by using a microtome and is able to withstand low and high temperatures -70 to + 150°C (-94° to +302°F).

Thermanox™ Coverslips are culture treated on one side for enhanced cell attachment and growth.

Thermanox™ coverslips are packed sterile, the treated side is packaged face up toward the label. Cells grown on these coverslips can be embedded while remaining on the coverslip in a plastic resin without removal for sectioning.

The Thermanox™ coverslips autofluoresce in the range 380 - 545nm. They autofluoresce at the Rhodamine and FITC range: Fluorescein isothiocyanate, excitation 494nm; emission 517nm.

Thermanox™ coverslips can be autoclaved at 20 minutes steam, 20 minutes dry, at 120°C (248°F). ⓘ

They are 0.2mm thick (NO. 2).

ⓘ = Tech Note on web page

26025	Thermanox™, No. 2, 10.5 x 22mm	1 oz
26026	Thermanox™, No. 2, 22 x 60mm	1 oz
26027	Thermanox™, No. 2, 24 x 30mm	1 oz
26028	Thermanox™, No. 2, 13mm diameter	1 oz
26029	Thermanox™, No. 2, 15mm diameter	1 oz
26030	Thermanox™, No. 2, 22mm diameter	1 oz
26031	Thermanox™, No. 2, 25mm diameter	1 oz

Approximate PIECES per OUNCE for Standard Size Micro Cover Glasses

Size (mm)	Thickness			
	#0 (.08-.13mm)	#1 (.13-.17mm)	#1.5 (.16-.19mm)	#2 (.17-.25mm)
12 x 24	345	256	226	184
18 x 18	320	233	202	165
22 x 22	208	156	138	116
22 x 30	156	116	102	86
22 x 35	135	100	87	72
22 x 40	116	87	76	64
22 x 50	94	70	61	52
22 x 60	78	58	51	43
24 x 30	144	108	94	78
24 x 35	126	94	82	68
24 x 40	108	80	70	59
24 x 50	90	67	58	49
24 x 60	72	54	47	39
25 x 25	166	124	108	89
35 x 50	-	41	-	-
35 x 60	-	37	-	-
43 x 50	-	35	-	-
48 x 60	-	26	-	-
48 x 65	-	24	-	-
12 dia.	932	692	597	502
13 dia.	776	575	500	425
15 dia.	602	443	383	321
16 dia.	510	376	330	280
18 dia.	415	308	266	223
19 dia.	372	276	238	200
22 dia	276	206	178	150
25 dia	215	159	137	116

Note: Not all sizes listed are available

HISTOLOGY

Plastic Coverslips; Slide Labels; Mounting Medium / Balsam Bottle; Light Sensitive Slide Storage

■ Plastic Coverslips



Virtually Unbreakable, 0.18mm thin rigid vinyl (PVC and acetate copolymer). Refraction index 1.5 μ .

Each cover slip interleaved with tissue. 22 x 22mm. Package of 100 or 1,000.

2225-1 Plastic Cover Slips, 22 x 22 x 0.18mm . . .pkg/100

2225 Plastic Cover Slips, 22 x 22 x 0.18mm . . .pkg/1000

■ Microscope Slide Labels



The microscope slide labels fit directly on the microscope slide - a neat and professional way to label slides. The writing on the label is more permanent than provided by most slide markers. These Slide Labels are available thin or in pathology (tissue high) thickness. Permanent adhesive holds labels in place during use and long term storage. Square corners. Sheet size is 5- $\frac{1}{4}$ x 7- $\frac{1}{2}$ " (149 x 191mm) ($\frac{1}{16}$ " = 23.8mm).

Sheet Form - Microscope Slide Labels

26040-10 $1\frac{5}{16}$ " x $1\frac{5}{16}$ ", Standard; (25 sheets of 40 labels)pkg/1000

26040-12 $1\frac{5}{16}$ " x $1\frac{5}{16}$ ", Pathology; (25 sheets of 40 labels)pkg/1000

26040-14 $1\frac{5}{32}$ " x $1\frac{5}{16}$ ", Standard; (25 sheets of 80 labels)pkg/2000

26040-16 $1\frac{5}{32}$ " x $1\frac{5}{16}$ ", Pathology; (25 sheets of 80 labels)pkg/2000

Roll Form - Microscope Slide Labels

26040-18 $1\frac{5}{16}$ " x $1\frac{5}{16}$ ", Standard; (Roll)pkg/1000

26040-20 $1\frac{5}{16}$ " x $1\frac{5}{16}$ ", Pathology; (Roll)pkg/1000

26040-22 $1\frac{5}{32}$ " x $1\frac{5}{16}$ ", Standard; (Roll)pkg/1000

26040-24 $1\frac{5}{32}$ " x $1\frac{5}{16}$ ", Pathology; (Roll)pkg/1000

■ Mounting Medium / Balsam Bottle



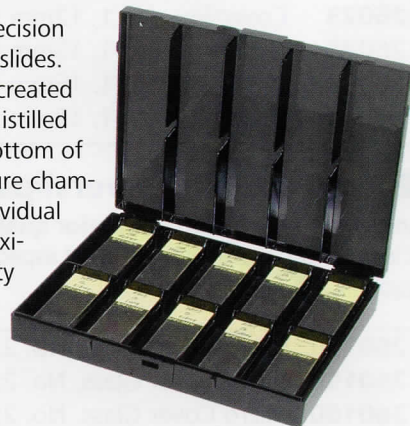
Ideal for applying mounting media. Provided with a glass applicator block and glass cap. Cap is ground to the shoulder of the bottle to form a seal. Made of "810" soda lime glass. Capacity: 100ml. Diameter: 17mm (.67"). Height: 100mm (3.94"). (supplied without media)

21033 Mounting Medium/Balsam Bottleeach

Light Sensitive Handling and Storage of Slides *For more storage go to page 546*

■ Immunostain Moisture Chamber

This is a low-cost, high precision moisture chamber for ten slides. The Moisture Chamber is created when a small amount of distilled water is added into the bottom of the chamber. Every moisture chamber is divided into ten individual compartments with approximately 12.7mm ($\frac{1}{2}$ ") empty space between the compartments. When the chamber lid is closed, eight barrier dividers are placed into the empty spaces between the microscope slide compartments completely isolating all compartments. This is a very desirable feature when doing immunostaining.



The microscope slides are placed on four pedestal posts and four corner posts each 11.5mm (0.460") high, thus raising the surface of the slides approximately 12.7mm ($\frac{1}{2}$ ") off the floor to keep the slides away from the water below and making the slides easily retrievable (either by hand or by forcep).

The chamber is fabricated of heavy-duty polystyrene with an airtight design to keep moisture in. The chamber is designed to be stackable in order to save counter and/or refrigerator space

21049-B Moisture Chamber, blackeach

■ Handy Mini Slide Box



Holds 25 3 x 1" slides, numbered index in lid, stackable. Protects light sensitive specimens.

Outer dimensions:
9.5 x 8.25 x 3cm
(3.7 x 3.25 x 1.18")

2108-6 Handy Mini Slide Box, blackeach

■ Handy Slide Box, Hinged, Black

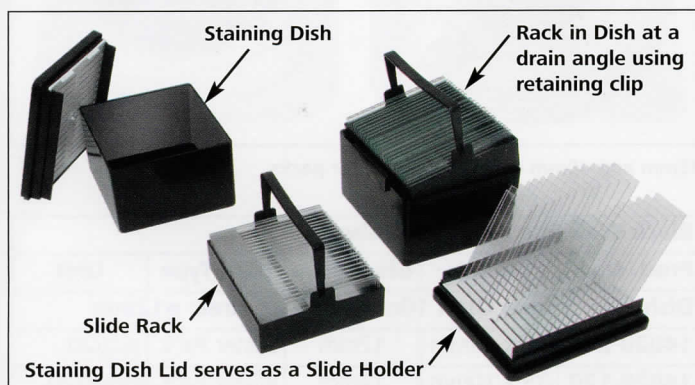


Holds 100 3 x 1" slides and has a numbered index in bottom and lid. Protects light sensitive specimens. Stackable. Outer dimensions: 21 x 17 x 3cm (8.3" x 6.7" x 1.18").

2102-6 Handy Slide Box, blackeach

■ Slide Staining and Storage System

stain, file and store



Universal slide rack and container for autoradiography gel staining and staining techniques. Molded of black polyoxymethylene-poly-acetal plastic which has great advantages over glass in all cytological and histological laboratories.

Staining Dish

The Staining Dish has a light tight lid, essential to easily evaporated baths and a compartment for a drying agent. The dish accommodates one slide rack, Product No. 21078, not included. The perforated slide partition which supports the drying agent has index numbers and a writing surface. A removable clip is placed on the top edge of the dish, permitting the stain solution to drain back into the reservoir from the tilted rack. The actual capacity of the small dish is 250ml but only 150ml is needed, which provides a saving on staining liquids, developing fluids and intermediates. Made from black polyoxymethylene-poly-acetal plastic, the dish is easy to clean and especially suited to store enzymes. The cover will not jam in freezer storage. Maximum use temperature is 85° C, (185° F). Dimensions: 94 x 81 x 49mm high (3.7" x 3.2" x 1.9").

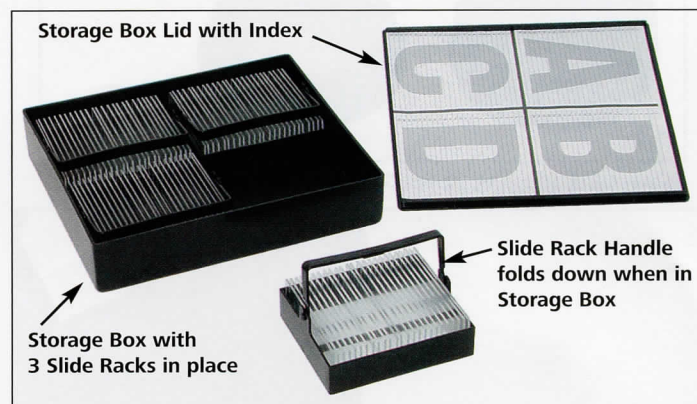
21078-1 Staining Dish with Lid for Slide Rack No. 21078each

Slide Rack

The Slide Rack has an open bottom for rapid draining. It holds 25 x 15mm (3 x 1") slides in slots numbered 1-25. The handle folds flat on either side. Four of these racks fit into the Slide Storage Box (see below). Maximum temperature is 85°C (185°F).



21078 Slide Rack, holds 25each

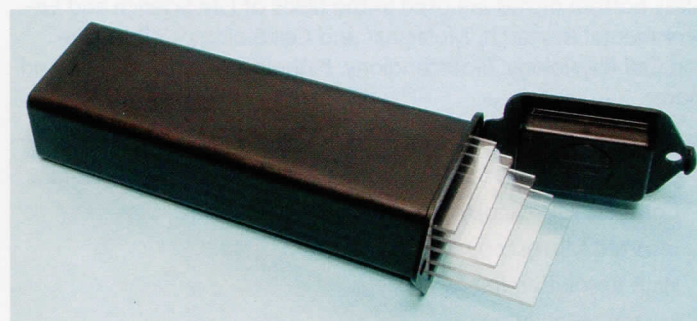


Storage Box

A black polystyrene storage box (not for staining) holds four Slide Racks (Prod. No. 21078), not included. Provides convenient, indexed storage for the slide racks. There is a paper index for each of the four racks and also a paper index inside the cover that marks each section numerically 1 to 25. The box measures 19 x 17 x 3.7cm high (7-1/2" x 6-5/8" x 1-1/2").

21078-2 Storage Box for 4 Slide Racks (racks not included)each

■ Microscope Slide Mailer



Disposable staining container is also useful for shipping, storing and handling of slides. Black (for light sensitive specimens).

Polypropylene container holds five 3 x 1" slides in place so they will not touch. Positive lock and flip-top.

22519 Microscope Slide Mailer, blackpkg/100

Black Wall Glass Bottom Dishes

By WillCo Wells

highest quality, sterile



35mm OD x 10mm H, 22mm Glass Area (image 70% actual size)



50mm OD x 7mm H, 40mm Glass Area (image 70% actual size)

Glass bottom dishes are used in the fields of Life Science and Environmental Research, Molecular and Cell Biology, Cell Culture and Cell Physiology, Biotechnology, Pathology, Pharmacology and more.

Applications

- Black Wall Dishes for low background fluorescent applications
- Confocal Microscopy
- Inverted Microscopy
- High Resolution Image Analysis
- Micromanipulation
- Differential Interference Contrast (DIC or Nomarski)
- Infrared Imaging

Additional Advantages are:

1. Much larger effective range, using an objective lens with a short working distance
2. No birefringence effects because of thin (0.17mm) glass bottom

3. Larger effective Working Distances make micromanipulation possible.
4. Higher effective N.A. make brighter images in fluorescence
5. Higher effective N.A. make higher resolutions in Image Analysis
6. Microscope light passes through bottom glass in a perpendicular way, *glass rests on the stage*
7. Direct heating from the microscope-stage, because the *glass is in direct contact with the stage*
8. In IVF, no more oocyte-/embryo transfer is needed from one plastic dish to another, unless different media are being used, saving a lot of time
9. Easy "perfusion" in the dish for continuous in and outflow of solutions, using "perfusion chamber insert"
10. The glass is used in microscopy for medical, biological and research work, eg. fluorescence microscopy.

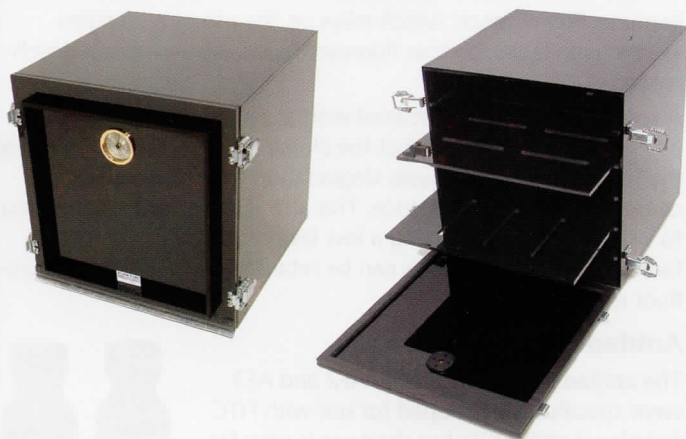


35mm and 40mm OD shown in blister packs

Black Wall Glass Bottom Dishes

Prod. No.	OD x H	Glass Area	pkg. Type	Unit
Dish Size: 35mm OD x 10mm H, Glass Area: ø12mm				
14028-20	35 x 10mm	12mm	Blister Pack	pkg/20
14028-120	35 x 10mm	12mm	Blister Pack	case/120
14029-20	35 x 10mm	12mm	Sleeve/20	each
14029-200	35 x 10mm	12mm	Sleeve/20	case/10 SI
Dish Size: 35mm OD x 10mm H, Glass Area: ø22mm				
14030-20	35 x 10mm	22mm	Blister Pack	pkg/20
14030-120	35 x 10mm	22mm	Blister Pack	case/120
14031-20	35 x 10mm	22mm	Sleeve/20	each
14031-200	35 x 10mm	22mm	Sleeve/20	case/10 SI
Dish Size: 50mm OD x 7mm H, Glass Area: ø30mm				
14032-20	50 x 7mm	30mm	Blister Pack	pkg/20
14032-120	50 x 7mm	30mm	Blister Pack	case/120
14033-20	50 x 7mm	30mm	Sleeve/20	each
14034-200	50 x 7mm	30mm	Sleeve/20	case/10 SI
Dish Size: 50mm OD x 7mm H, Glass Area: ø40mm				
14035-20	50 x 7mm	40mm	Blister Pack	pkg/20
14035-120	50 x 7mm	40mm	Blister Pack	case/120
14036-20	50 x 7mm	40mm	Sleeve/20	each
14036-200	50 x 7mm	40mm	Sleeve/20	case/10 SI

■ Black Desiccator Cabinets



from 12" x 12" to 24" x 18" x 24"

Designed to protect specimens, in fluorescence applications, from light. A well constructed desiccator cabinet made from black acrylic. Also suited for forensic specimen storage or anywhere where confidentiality is important.

12" x 12" (W x D)

22200-BLK Black desiccator cabinet, 12" x 12" x 12" with 2 perforated black shelveseach

22204-BLK Black desiccator cabinet, 12" x 12" x 24" with 4 perforated black shelveseach

22200-4 Black Acrylic Perforated Shelf 12" x 12" x 1/4"each

22200-5 Stainless Steel Perforated Shelf 12" x 12"each

18" x 18" (W x D)

22206-BLK Black desiccator cabinet, 18" x 18" x 18" with 2 chambers and 4 perforated black shelveseach

22206-4 Black Acrylic Perforated Shelf 18" x 18" x 1/4"each

22206-5 Stainless Steel Perforated Shelf 18" x 18"each

24" x 18" (W x D)

22207-BLK Black desiccator cabinet, 24" x 18" x 24" with 2 chambers and 4 perforated black shelveseach

22207-4 Black Acrylic Perforated Shelf 24" x 18" x 1/4"each

22207-5 Stainless Steel Perforated Shelf 24" x 18"each

■ GOLD SEAL® UltraStick™ Microslides

GOLD SEAL® Coated Microscope Slides offer:

- Provide superior adhesion of histological and cytological specimens
- Ensures unsurpassed adhesion quality
- Saves valuable lab time with pre-coated slide
- Ultrafrost writing area for clear and accurate labeling
- Moisture-Barrier™ packaging system for dry slides

UltraStick™ microslides are ideal for histological and cytological applications demanding superior specimen-to-slide adhesion. The enhanced silane coating, APTES (3-Amino-PropylTriEthoxySilane), eliminates tedious lab coating procedures and special additives to your water bath. Simply open the Moisture-Barrier sealed case and your guaranteed fresh slides are ready for use. Procedures such as immunoperoxide, *in situ* DNA hybridization, enzyme digestion and frozen tissue processing will benefit from the enhanced adhesion characteristics of this product. An additional advantage is the clear and accurate labeling on the Ultrafrost™ writing area.

260224 UltraStick™ Microslides, 75 x 25mm, 1mm thick, surface coated for adhesion, frosted one end, one sidepkg/144

■ Fluor-Ref™ Fluorescence Reference Slides

Fluorescence Reference Slides will enable you to check how evenly your fluorescence illuminator is filling your field of view and whether it is centered. Are you monitoring the laser output and MT settings for your Confocal Microscope?



Fluor-Ref™ Fluorescence Reference Slides provide a quick, easy-to-use solution. Made of durable plastic, they provide a continuous fluorescent field. No hunting for microspheres. No cellular photo bleaching.

The full Fluor-Ref™ set comes with four slides with spectra approximating the most commonly used fluorophores:

- Blue excitation (DAPI / Indo / Fura)
- Green excitation (FITC / GEP)
- Yellow excitation (Acridine Orange)
- Red excitation (Rhodamine / Texas Red)

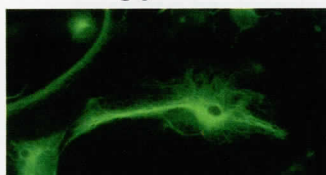
To keep the slides clean, dust-free, and easy to find, the set comes packaged in its own storage box

Fluor-Ref™ Slides are the innovation of Dr. P.C. Cheng of SUNY / Buffalo, NY.

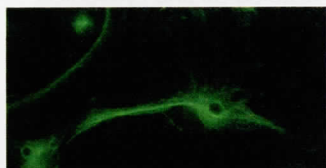
2273	Fluor-Ref™ set of 4 slideseach
2273-B	Fluor-Ref™ Single Slide, blueeach
2273-R	Fluor-Ref™ Single Slide, redeach
2273-G	Fluor-Ref™ Single Slide, greeneach
2273-Y	Fluor-Ref™ Single Slide, yelloweach

■ Citifluor Antifadent Solutions

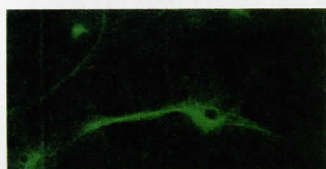
Mountant media:
glycerol



15 seconds illumination

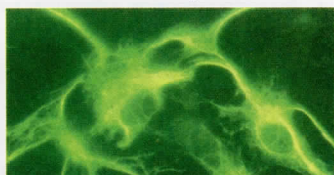


1 minute illumination

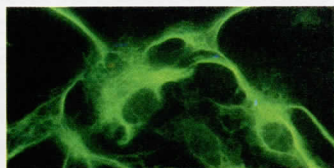


3 minutes illumination

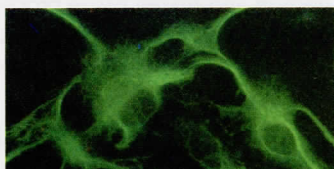
Mountant media:
CITIFLUOR (Glycerol/PBS)



15 seconds illumination



5 minutes illumination




45 minutes illumination

Courtesy of Dr. M. Noble, Institute of Neurology, London


The use of fluorescent labels and markers is now widespread and immuno-fluorescence, which relies on the use of antibodies tagged with labels such as fluorescein, is a well-established technique.

A common problem associated with the microscopical examination of these materials is that the illumination used for stimulating the fluorescence also causes degradation of the label and this causes fading of fluorescence. This also is a problem when trying to visualize materials having a low level of labeling. The photo-fading of labeled materials can be retarded by the use of the Citifluor mountants.

Antifadent (AF) Solutions

The antifadent solutions AF1, AF2 and AF3 were specifically developed for use with FITC polyclonal antibodies but their use is now far more widespread. They show improved signal preservation with many other fluorochromes including rhodamines and DAPI. AF4 contains the antifadent propyl gallate, which is particularly suitable for use with DAPI and Alexa dye-stained materials, as well as FITC-labelled materials. 



 = MSDS on web page

Citifluor Antifadent (AF) Solutions

Prod. No.		Description	Qty.
19470	AF-1	Glycerol-phosphate buffered solution, containing antifadent for use with labelled tissue sections and dead cells.	25ml
19470-1	AF-1	Glycerol-phosphate buffered solution, containing antifadent for use with labelled tissue sections and dead cells.	100ml
19472	AF-2	Glycerol solution containing antifadent for use with labelled tissue sections and dead cells.	25ml
19472-1	AF-2	Glycerol solution containing antifadent for use with labelled tissue sections and dead cells.	100ml
19474	AF-3	Phosphate-buffered saline solution containing antifadent for examination of whole live cells.	25ml
19474-1	AF-3	Phosphate-buffered saline solution containing antifadent for examination of whole live cells.	100ml
19476	AF-4	Glycerol solution containing n-propyl gallate for use with labelled tissue sections and dead cells.	25ml
19490	AF-100	Phosphate-buffered saline solution containing antifadent specially prepared for use with UVM23 solution where fluorochrome fading is a problem.	5ml
19491	AF-200	Glycerol solution containing antifadent, specially prepared for use with UVM2 solution where DAPI is the staining material. The solutions can also be used with other fluorochromes such as fluorescein, Alexa dyes and Hoescht dyes.	10ml
19492	AF-300	Glycerol solution containing antifadent, specially prepared for use with UVM2 solution where DAPI is the staining material. The solutions can also be used where fluorescein is the staining material. The solution can also be used with other fluorochromes such as rhodamines etc.	10ml
19493	CFM1	Glycerol-PBS ref. index similar to glass	10ml
19494	CFM1	Glycerol-PBS w/AF, ref. index similar to glass	10ml
19495	CFM1	Glycerol-TRIS buffer, ref. index similar to glass	10ml
19496	CFM1	Glycerol-Phosphate & AF, ref. index similar to glass	10ml

continued

UV Mount Media (UVM)		
Prod. No.	Description	Qty.
19497	UVM1 Methacrylate based solution.	10ml
19498	UVM2 Methacrylate-based solution containing anti-bleaching agent.	10ml
19499	UVM3 High refractive index methacrylate-based solution designed to be used with AF-100 where fluorochrome fading is a problem.	10ml
Solid Mountants		
19469	Kit Citifluor Solid Mountant Kit is comprised of PVA solution, 25ml and Citifluor antifident in buffer, 5ml. The components can be mixed as required, applied to the specimen and allowed to dry to give a clear film. H◆F	30ml

Staining Vessels

■ Wheaton Staining Dish



This dish will accommodate three different racks as shown in the picture above. Rack ordering information is on next page.

1. 16/32-Slide Rack, Glass, **Prod. No. 21056**
2. 30-Slide rack, Stainless Steel, **Prod. No. 21072**
3. 20/40-Slide Rack, Glass, **Prod. No. 21057**

These mix-and-match components offer greater flexibility in meeting your requirements.

Approximate inside dimensions of dish: 70 x 120 x 90mm (2.75 x 4.72 x 3.54")

All Wheaton Dishes, covers and and glass racks are manufactured from soda-lime glass and resist stains from Eosin or Hemotoxylin. The dishes are not autoclavable and cannot be used in a microwave oven or MW processor. They are not intended for use below 15°C or above 80°C (below 59°F or above 176°F).

- 21054** Dish and Cover, seteach
21054-1 Dish onlyeach
21054-2 Cover onlyeach

■ 16/32-Slide Rack, Glass

The Glass Rack holds 16 single slides, 31 slides arranged alternately straight across and diagonally, or 32 slides back-to-back.

- 21056** 16-Glass Rack, with handleeach

■ 30-Slide Rack, Stainless Steel

Slotted rack is designed to hold 30 slides 3 x 1" (75 x 25mm), 3 x 1-1/2" (75 x 38mm), and 3 x 2" (75 x 51mm). Made of non-tarnishable stainless steel. The handle is permanently attached but hinged to permit closure of dish and easy insertion and removal of the slides.

- 21072** 30-Slide Stainless Steel Rackeach

■ 20/40-Slide Rack, Glass

Holds 20 single slides or 40 back-to-back of regular 3 x 1" (75 x 25mm) size, 3 x 1-1/2" (75 x 38mm) and 3 x 2" (75 x 51mm) sizes.

- 21057** 20/40 Slide Glass Rack, with handleeach

■ 10-Slide Staining Dish with Cover



For staining 3 x 1" (75 x 25mm) slides. Holds 10 single slides, 19 slides arranged alternately

straight across and diagonally, or 20 slides back-to-back. Made of "810" soda lime glass. Approximate inside dimensions: 77 x 60 x 30mm (3 x 2-3/8 x 1-3/16").

- 21066** Staining Dish with Cover, seteach

■ Staining Dish - 20-Slide Unit, Glass

This 20-slide unit is the standard for manual staining procedures. The glass slide rack has an open bottom for rapid immersing and draining of stain, eliminating any carryover. The rack holds 20

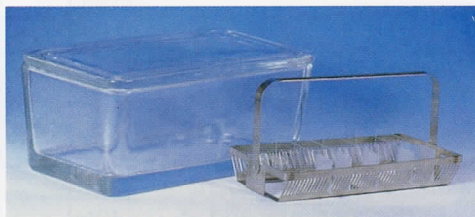


slides of size 3 x 1" (75 x 24mm), 3 x 1-1/2" (75 x 38mm), and 3 x 2" (75 x 51mm) sizes. Approximate inside dimensions: 70 x 105 x 85mm (2.75 x 4.13 x 3.35").

- 21043** Complete Set; dish, cover, rack, & handle . .each
21044 Dish onlyeach
21047 Cover onlyeach
21075 Dish and Cover, set, (without handle)each
21075-2 Glass Slide Rack only (without handle) . . .each
21075-6 Wire Handle onlyeach

H◆F = HAZARD Fee may apply*

■ Staining Dish 50-Slide Unit, with Cover



Slotted rack holds 50 slides, sizes 3 x 1" (75 x 25mm) as well as 3 x 1-1/2" (75 x 38mm). The unit measures approximately 200 x 83 x 105mm (7.87

x 3.27 x 4.13") overall. The rack is made of non-tarnishable stainless steel and is resistant to most staining solutions. The handle is permanently attached but hinged to permit closure of dish and easy insertion and removal of the slides. Made of "810" soda lime glass. Approximate inside dimensions: 70 x 185 x 90mm (2.75 x 4.72 x 3.54").

- 21058** Staining Dish Set (dish, rack and cover)each
21059 Staining Disheach
21068 Staining Dish and Covereach
21069 50-slide Stainless Steel Rack with handleeach

■ Coplin Staining Jar with Glass cover



A popular staining jar with heavy glass walls and broad base for increased stability. Holds 5 single 3 x 1" (75 x 25mm) slides vertically or 10 slides back to back. Requires small reagent volume. Made of "800" soda lime glass. Approximate inside dimensions: 75 x 30 x 30mm (3 x 1.18 x 1.18").

- 21067** Coplin Staining Jar with Glass Covereach

■ Tall Coplin Staining Jar with Plastic Screw Top



For staining slides or use as a developing chamber in thin layer chromatography. Unit holds 5 single 3 x 1" (75 x 25mm) slides vertically or 10 slides back-to-back. Screw cap is white linerless polypropylene which reduces solvent evaporation. Rectangular base. Made of "800" soda lime glass. Approximate inside dimensions: 70 x 30 x 30mm (2.75 x 1.18 x 1.18")

Tall style - slide completely contained

- 428-3** Tall Coplin Staining Jar with Capeach

■ 5/10 Short Coplin Staining Jar with Plastic Screw Top



Holds 5 single 3 x 1" (75 x 25mm) slides or 10 back to back. Slides extend above the opening, permitting them to be manipulated without forceps. Screw cap is linerless, white polypropylene. The cap retains organic solvents and reduces evaporation. Rectangular base.

Approximate inside dimensions: 65 x 30 x 30mm (2.6 x 1.2 x 1.2")

- 431-3** Short Coplin Staining Jar with Capeach

■ 8/16 Vertical Staining Jar with Cover



The wide top makes this jar especially suitable for staining slides inscribed on one end. Holds 8 single 3 x 1" (75 x 25mm) slides vertically or 16 slides back-to-back. Made of "400" borosilicate glass. Approximate inside dimensions: 90 x 50 x 30mm (3.5 x 2 x 1.2")

- 432-1** Staining Jar with Covereach

■ 8/16 Hellendahl Type Staining Dish



For staining or use as a TLC developing chamber. Holds 8 individual 3 x 1" (75 x 25mm) slides. If necessary, 16 slides can be accommodated back-to-back. Made of soda lime glass. Approximate inside dimensions: 75 x 80 x 30mm (3 x 3.14 x 1.18")

- 21074** Hellendahl Staining Disheach

■ Plastic Slide Grip



Holds five each 3 x 1" (25 x 75mm) slides and fits Coplin Jars and round-mouthed staining jars. Molded plastic withstands chemicals used in staining including special stains and metals. Can be used in temperatures up to 80°C (176°F).

- 21048** Plastic Slide Gripeach



■ Coplin Staining Jar with Tall Glass Cover

Chamber with extra tall lid accepts five single 3 x 1" (75 x 25mm) and 3.94 x 1" (100 x 25mm) slides. Made of "400" borosilicate glass. Meets USP Type 1 standards.

21073 Coplin Stain Jar with Tall Covereach

■ 5/10 Polypropylene Staining Jar



Tapered, square with flat shallow threaded screw cap. Holds 10 standard 3 x 1" (75 x 25mm) slides back-to-back. Loosen lid before autoclaving.

21038 Coplin Stain Jar with Tall Covereach

■ 5/10 Coplin Staining Jar



Polypropylene staining jar holds either 5 single or 10 back-to-back standard 3 x 1" (75 x 25mm) slides. The interior is grooved to hold the slides in an upright position. Domed and shallow thread cap provides protection to the slides. Loosen lid before autoclaving. Sold in package of 4.

21029 Coplin Stain Jar with Tall Coverpkg/4

■ Polypropylene Staining Jar Microwave Safe



Accommodates 10 slides, 3 x 1" (75 x 25mm), one per slot. Rectangular top, snap-lock lid, reagent proof seal, internal grooves. Microwave safe jar.

21046 Polypropylene Staining Jar, Microwave Safe, with Vent in Lideach

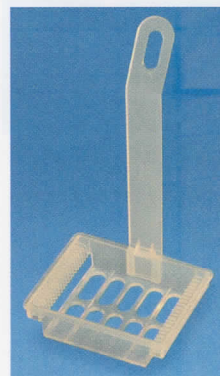
■ Polypropylene Staining Jar



Accommodates 10 slides, 3 x 1" (75 x 25mm), one per slot. Rectangular top, snap-lock lid, reagent proof seal, internal grooves. Bench staining jar.

21046-1 Polypropylene Staining Jar, Bench Stainingeach

■ Staining Rack, 20 Slides



Made of polypropylene plastic for use with No. 21086 Staining Dish listed below. Holds 20 slides of size 25 x 75mm, 38 x 75mm or 50 x 75mm (1", 1-1/2" or 2" x 3"). Dimensions (excluding handle) : 86 x 79 x 21mm high (3.39" x 3.11" x .83" H).

21087 20-Slide Staining Rackeach

■ Staining Dish



Plastic staining dish made of poly-methylpentane. Supplied with 2 lids – one lid for when rack is not in use, providing evaporation-free storage of staining liquid – a second lid with a special opening to allow handle of staining rack to be inserted. Xylene can cause etching after 2 days at room temperature.

Dimensions: 101 x 81 x 86mm high (3.98" x 3.19" x 3.39" H).

21086 20-Slide Plastic Staining Dish with Lidseach

■ EasyDip™ Slide Staining System

made of acetyl polymer, autoclavable



- Available in 5 different colors
- Will resist temperatures between -170°C and +121°C (-274°F and 250°F)
- Uses just 80ml of reagent for 12 slides
- Use individually or link together as many as you need
- Resistant to chemicals and dyes

Finally a user-friendly approach for staining your microscope slides, the EasyDip™ Slide Staining System has two components: a square staining jar and a 12-position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar, being made of resistant acetal plastic, will not break like most glass jars do. It will resist attacks by most staining agents including alcohol and xylene but not phenol. The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80ml for 12 slides. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. **Slide Staining Rack sold separately.**

Dimensions: 64mm x 76mm x 92mm H. (2-1/2" x 3" x 3-5/8" H.)

The **EasyDip™ Slide Staining Rack** will hold up to 12 microscope slides with dimensions of 25 x 75mm, 3 x 1" and even 26 x 76mm and with a thickness of 1.0 and 1.2mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. This staining rack is made of material specially formulated for rapidly drying slides in a microwave processor, or at temperatures up to 121°C (250°F). The lid completely covers the EasyDip™ Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fin-

gers touching the solution. The base of the rack is placed in the vertical position to secure the slides in place, and is rotated sideways for allowing their easy removal. Available in dark gray only.

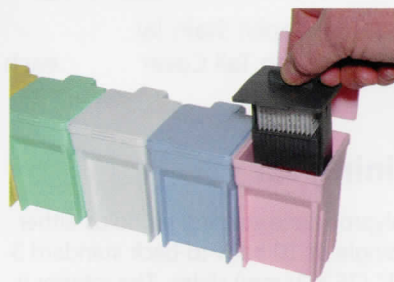
Dimensions: 60mm x 64mm x 97mm H. (2-1/4" x 2-1/2" x 3-3/4" H.)



Vertical rack eases slide removal without using forceps.



Slides are fully secured when lid is upright. Rotate it sideways to allow their easy removal.



A handle is permanently attached to the rack for easy insertion and removal.



Staining rack is placed at an angle to facilitate draining of slides.

Ordering Information EasyDip™ Slide Staining Jar

27320	EasyDip™ Slide Staining Jar, Blue	each
27321	EasyDip™ Slide Staining Jar, Green	each
27322	EasyDip™ Slide Staining Jar, Pink	each
27323	EasyDip™ Slide Staining Jar, White	each
27324	EasyDip™ Slide Staining Jar, Yellow	each

Ordering Information EasyDip™ Slide Staining Rack

27325	EasyDip™ Slide Staining Rack	each
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■ 8 Section Staining Nets

8 Section Staining Net Dimensions: 3-1/2" diameter x 1-1/2" high (89 x 38mm), 32 or 64 mesh netting. Rod in center of net can be grasped to lift net from staining Dish 36754-60, below.

36154-32	8 Section Staining Net, 32 mesh	each
36154-64	8 Section Staining Net, 64 mesh	each

■ Pyrex® Circular Glass Staining Dish

4" ø x 2" high (100mm ø x 50mm H), for use with above Staining Nets.

36154-60	Pyrex® Circular Glass Dish	each
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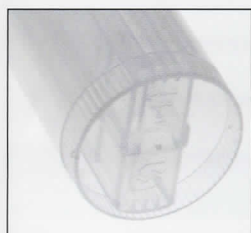
■ LockMailer™ - Microscope Slide Jar



See our website for more details: www.tedpella.com

The LockMailer™ is a tamperproof multi purpose compact container for storing, transporting, mailing or staining slides. It is made of clear polypropylene and will hold up to 4 slides 1 x 3" or 75 x 25mm vertically. The caps can be color coded. An important feature is the suitability for staining using minimal staining solutions.

without slides	.....14ml
1 slide	.....12ml
2 slides	.....10ml
3 slides	.....8ml
4 slides	.....6ml



Bottom View/- double wall



Screw on tamper-proof cap all the way.



When opening the vial, the tamper evident ring will detach itself from the cap

- 21096** LockMailer™ Microscope Slide Jar, without Capinserts™pkg/100
- 21096-10** Capinserts™ for LockMailer™, Blue ...pkg/100
- 21096-20** Capinserts™ for LockMailer™, Gray ...pkg/100
- 21096-30** Capinserts™ for LockMailer™, Green ...pkg/100
- 21096-40** Capinserts™ for LockMailer™, Lilac ...pkg/100
- 21096-50** Capinserts™ for LockMailer™, Orange .pkg/100

■ Coverglass Staining Jar



Glass jar with ground glass cover, accommodates 8 each back-to-back size 18 x 18mm coverslips. 45mm high.

- 21036** Coverglass Staining Jareach

■ Columbia Staining Jar for Coverslips



This staining jar can hold up to 4 cover slips measuring 17-23mm wide, and up to 30mm long. Longer coverslips can be accommodated by removing the cap. The jar comes with a white polypropylene screw cap with a PTFE coated polyethylene liner. It is manufactured from Wheaton "800" glass and is resistant to most chemicals.

- 21040** Columbia Staining Jar for Coverslipseach

■ Plastic Spot Dish



This economical white Plastic Spot Dish is suitable for most applications where glass or porcelain plates are used. However, they are not recommended for strong solvents such as acetone or xylene.

Made from white polystyrene, size 112 x 92mm with 12 wells

of 22mm diameter and 6mm deep. Sold in package of 6.

- 14513** Plastic Spot Dishpkg/6

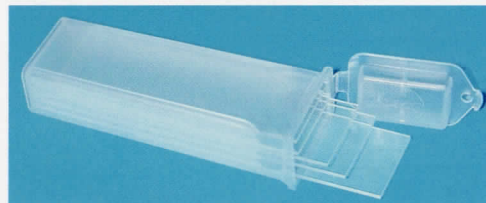
■ Porcelain Spot Dishes



EM staining, replica washing, color reactions can be done in this spot dish. White or black with 12 wells, 6.1mm deep. Plate size: 117 x 90mm.

- 14511** Porcelain Spot Dish, whiteeach
- 14509** Porcelain Spot Dish, blackeach

■ Microscope Slide Staining Container/Mailer



Disposable staining container is also useful for shipping, storing and handling of slides.

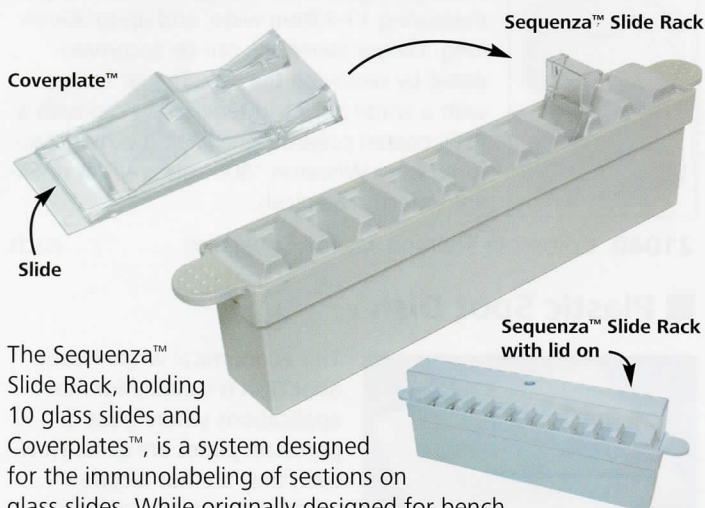
Polypropylene container holds

five 3 x 1" slides in place so they will not touch. Positive lock and flip-top.

- 22518** Microscope Slide Mailer, transparent ...pkg/100

■ Immunostaining on Glass Slides

using the Sequenza™ Slide Rack and Coverplate™ system

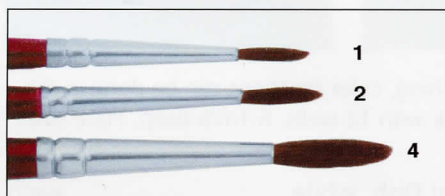


The Sequenza™ Slide Rack, holding 10 glass slides and Coverplates™, is a system designed for the immunolabeling of sections on glass slides. While originally designed for bench techniques, this system is uniquely suited for microwave-assisted applications. The Slide Rack holds glass slides with a Coverplate™. This combination forms a capillary gap between the slide and the plate. Reagent volumes, especially antibody, are greatly reduced using this versatile system. A reagent hopper forms the uppermost part of the plastic Coverplate™ allowing for easy dispensing of reagent into the capillary gap. Using a PELCO® Microwave Processor with a PELCO ColdSpot®, rapid immunostaining of sections on glass slides is reliable and easy.

36105 Sequenza™ Slide Rackeach

36107 Coverplate™ Assembliespkg/25

■ Camel Hair Brushes



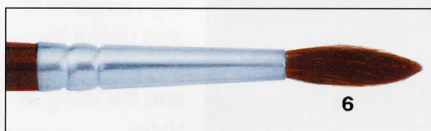
Useful for histology section manipulation, SEM, Geology, Forensics. Seamless ferrules, red enameled handles. Tips shown actual size.

11859 Camel Hair Brushes, #1pkg/3

11860 Camel Hair Brushes, #2pkg/3

11862 Camel Hair Brushes, #4pkg/3

11870 Set, Camel Hair Brushes, #1, #2, #4pkg/3



Camel Hair Brush for larger brushing work on specimens.

11878 Camel Hair Brush, #6pkg/3

■ Micro Eyelash

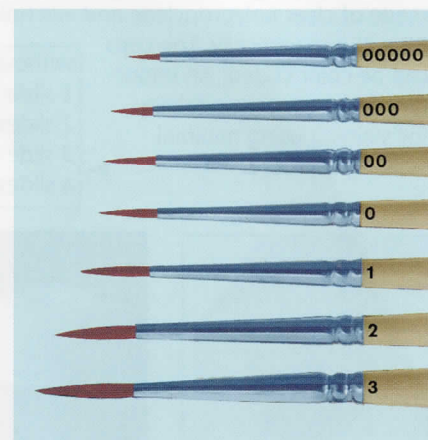


A carefully selected No. 1 Superfine Eyelash is attached to a fine wooden handle for delicate manipulation of ultra-thin sections in the knife boat of an ultramicrotome or wherever delicate teasing or manipulation is required. These special eyelashes are chosen due to their taper and strength and make an excellent addition to your dissection tools.

113 No. 1 Superfine Eyelasheach

■ Red Sable Brushes

For precise manipulation of TEM specimen grids and samples, dusting of SEM samples and photographic materials or photographic spotting. Sable hairs are springy and relatively fine, which gives them a special place in the microscopist's tools armory. Lengths of hairs are short for better manipulation.



Enameled wood handles and seamless nickel ferrules. Offered in packages of 3 brushes.

Prod. No.	Brush Number at Ferrule	Brush Width at Ferrule	Brush Length
11806	#00000	0.8mm	4.0mm
11807	#000	1.0mm	6.0mm
11808	#00	1.0mm	7.0mm
11810	#0	1.3mm	8.0mm
11812	#1	1.5mm	9.5mm
11814	#2	1.8mm	11.5mm
11816	#3	2.0mm	13.0mm

11806 Red Sable Brushes, #00000pkg/3

11807 Red Sable Brushes, #000pkg/3

11808 Red Sable Brushes, #00pkg/3

11810 Red Sable Brushes, #0pkg/3

11812 Red Sable Brushes, #1pkg/3

11814 Red Sable Brushes, #2pkg/3

11816 Red Sable Brushes, #3pkg/3

Histology Safety

■ UltraSense™ Blue Nitrile Gloves



Ultra-soft, next generation nitrile formulation provides the relaxed fit and feel that you would expect from a latex glove. The high quality nitrile offers reliable barrier protection against many hazardous and infectious substances. Unique manufacturing process delivers an outstanding grip in wet and dry environments. A superior value, ambidextrous, synthetic glove that has a beaded cuff and is powder-free. 100 gloves per dispenser box.

Enlargement shows the UltraSense™ finely textured finger tips for better grip.

Length: 9.6" (245mm)

Palm thickness: 3.5 mil (0.09mm)

Finger thickness: 4.7 mil (0.12mm)

81850 UltraSense™ Nitrile Gloves, smallbox/100

81851 UltraSense™ Nitrile Gloves, mediumbox/100

81852 UltraSense™ Nitrile Gloves, largebox/100

81853 UltraSense™ Nitrile Gloves, x-largebox/100

■ Latex Laboratory Gloves



Made of natural latex, molded and double-dipped for high elasticity with a smooth, comfortable fit. Gloves have a protective beaded cuff and fit either hand. Non-sterile. Length: 9" (230mm)

Thickness: 5 mil (0.13mm)

Powder-free

81840 Latex Gloves, powder-free, smallbox/100

81841 Latex Gloves, powder-free, mediumbox/100

81842 Latex Gloves, powder-free, largebox/100

81843 Latex Gloves, powder-free, x-largebox/100

■ 3M™ Splash Guard Safety Goggles



Reduce exposure to a variety of eye hazards including impact, splash and dust. Vinyl frame with soft border for excellent fit. Adjustable head strap and polycarbonate lens. Sold in packages of 6.

19834 3M™ Splash Guard Safety Gogglespkg/6

■ 3M™ Wrap Around Safety Glasses



Comfortable, and stylish safety glasses that provide side and brow protection. Black frame, clear lens.

19832 3M™ Safety Glasses, black frameeach

■ 3M™ Light-weight Safety Glasses



Stylish safety glasses that give comfortable eye protection. They meet the high impact standards for Occupational and Educational Eye and Face Protection ANSI Z87.1-2003. Black frame temples, clear lens.

19833 3M™ Safety Glasses, black templeseach

■ 3M™ Particulate Respirators, Disposable



3M™ 8210 is classified as an N95 particulate respirator. For non-oil hazards only. Meets NIOSH 42 CFR 84 N95 requirements. Minimum filter efficiency of 95% (for particle sizes 3µm or larger). Grinding, sanding, sweeping, and

other dusty applications. Adjustable noseclip design helps for a good seal and good fit. Adjustable straps.

19942 3M™ Particulate Respirator N95box/20

■ Hot Hand® Protector



Provides superior protection when handling hot or cold objects. Made of strong silicone rubber which resists tearing, withstands temperatures as high as 260°C (500°F), and remains flexible at temperatures as low as -57°C (-71°F). The gripping surfaces have multiple concave-tipped studs for non-slip grip. Each Hot Hand Protector has a hole for hanging, and end pockets for the thumb and fingers. 10 x 19cm (3-7/8 x 7-1/2").

23110 Hot Hand® Protectoreach

■ Bench-Top Biohazard Bag



Easy-open, space-saving, convenient, autoclavable. Sterilization indicator patch darkens when subjected to autoclave heat.

These bags have one long flap for ease in opening. Used with the 19840 desk-size bag holder, they provide a neat disposal unit for use in fume hoods or on bench tops and desks. The bright orange/red bags are made of high molecular weight, high-density polyethylene, printed with the biohazard symbol. They may be used as waste pickup bags by turning inside out and placing the hand inside to pick up waste.

The bag is then closed with sterilization indicator on the outside.

The bags measure 8-1/2 x 11" (22 x 28cm). Packed 100/bag.

19838 Biohazard Bagspkg/100

19840 Bag Holdereach

■ Economy Integral Style Wash Bottles (LDPE)



These wash bottles have an integral molded tube with removable jet tip and a separate plain cap. The shape is a squared-oval for easy grip and improved stability. Available in five different colors for color coding of contents, all with natural PP closures. Supplied in packs of five per case.

19802 Wash Bottles, natural, 250mlpkg/5

19810 Wash Bottles, red, 500mlpkg/5

■ Safety Labeled Wash Bottles

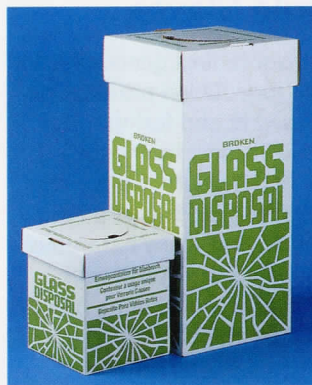


For safe and positive identification of common laboratory solutions, these wash bottles are labeled in bold, eye-catching letters and symbols. Standard Diamond Alert symbols indicate what type of hazard the contents may present.

Includes these bottles: Water, Acetone, Methanol, Isopropanol, Toluene, and Ethanol. Color-coded.

19800 Safety Wash Bottles, variety 6 pack,case/6

■ Broken Glass Disposal Box



A handy receptacle for safely collecting broken glassware for disposal. Provides mess-free convenience for any work area. A cut-out flap in the lid allows easy insertion of glass. Supplied with a 2 mil (0.05mm) thick polyethylene bag. Tabs keep the liner from slipping out of place. Packaged flat for saving space and shipping costs. Two sizes, benchtop (8095-1) and floor (8095-2).

8095-1 Broken Glass Disposal box,
20 x 20 x 25cm (8" x 8" x 10")pkg/6

8095-2 Broken Glass Disposal box,
30 x 30 x 69cm (12" x 12" x 27")pkg/6

■ Liquid Alarm



This effective Liquid Alarm is helpful to detect leaks of cooling systems and overflow or leaks of drums, tanks or beakers. It is a perfect reminder when unattended fluid pumps are running. Place the sensor on the floor to detect spills. The moment a solution touches the sensor, a high-decibel alarm sounds and a red LED light flashes continually until the sensor is removed from the liquid or the unit is turned off. This will alert people and allows taking action before a more serious situation develops. For use with aqueous solutions and liquids that do not attack plastics.

Cable length from sensor to alarm unit is 10 feet, size of case is 76 x 46 x 19mm (3" x 1-13/16" x 3/4"), weight 71gr (2-1/2 oz). Uses 1 AA battery (included).

54515 Liquid Alarm, including sensor
and AA batterypkg/6

■ Clean Air System

portable fume extractor filter



Remove and adsorb fumes from your Microwave System or other equipment and/or work areas.

Localized air purification protection is provided for those laboratories which have overcrowded fume hoods or where a fume hood is simply unavailable in the microwave area. Fumes are led from the microwave vent, through a 5" diameter chemically resistant hose (5 feet [152cm] provided) to a filter housing. Various types of filters are available (HEPA, carbon, dacron and aluminum pre-filters), but the one we recommend for microscopy/histology is type FRC-4 which has been tested for glutaraldehyde and formaldehyde fumes.

Desk and wall-mounted designs are available.

- 3120** Clean Air System, Air Purifier, Single Hose, 115VAC (does not include filter)each
- 3120-220** Clean Air System, Air Purifier, Single Hose, 220VAC (does not include filter)each

Clean Air System Filters:

size 10 x 17 x 2" for EM (glutaraldehyde, osmium tetroxide; highest adsorbing capacity) (Special/carbon treated)

- 3124** Filters, FRC-4 Series (special/carbon treated)pkg/3
- 3126** HP-2 series HEPA filter, 99.99% @ 0.3µmeach

for formaldehyde:

size 10 x 17 x 2" for EM (glutaraldehyde, osmium tetroxide; highest adsorbing capacity) (Special/carbon treated)

- 3028** FR-4 Series; carbon filter with 8-10 lbs. adsorbentpkg/3

if additional hose is required:

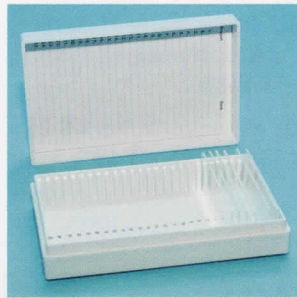
- 3040** Hose (5" dia.), extra, for Clean Air System 3120per foot

if wall mount is required:

- 3042** Wall Mount for Clean Air System 3120each

Slide Storage Boxes and Mailers

■ Slide Saver Boxes



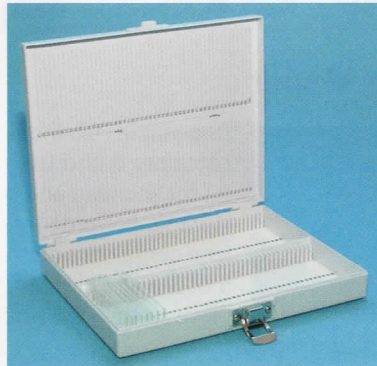
holds 25 3" x 1" slides

Removable Lid. Indexed, compact and durable, this smooth injection molded high impact plastic slide box provides the best in microscope slide protection for the histology laboratory. Heavy walls will not warp, splinter or crack; material is unaffected by humidity and is thoroughly insect proof. Cover and

bottom have numbered index for quick ID and are stackable.

Outer dimensions: 140 x 88 x 33mm (5.5" x 3.5" x 1.3").

- 2105** Slide Saver Box, 25-slide, removable lidpkg/2



holds 100 3" x 1" slides

Outer dimensions: 210 x 178 (with hinges and clasp) x 32mm (8.25" x 7" x 1.25").

- 2107** Slide Saver Box, 100-slide, hinged lideach

■ Plastic Slide Storage Files



Capacity: 100 of 3" x 1" slides, numbered index in hinged lid. Stackable. Available in 6 colors. Black is recommended for light sensitive specimens. Made of Polystyrene. Outer dimensions: 21 x 17 x 3cm (8.3" x 6.7" x 1.18").

- | | | |
|---------------|------------------------------|---------------|
| 2102-1 | Slide Storage File, White ○ |each |
| 2102-2 | Slide Storage File, Red ● |each |
| 2102-3 | Slide Storage File, Green ● |each |
| 2102-4 | Slide Storage File, Blue ● |each |
| 2102-5 | Slide Storage File, Yellow ● |each |
| 2102-6 | Slide Storage File, Black ● |each |

■ Handy Mini Slide Box

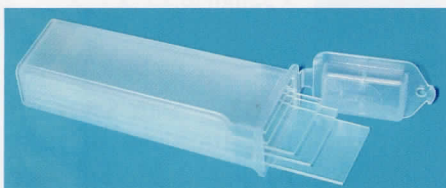


Holds 25 3" x 1" slides, numbered. Box is made of plastic in 5 colors. Numbered index in lid, stackable.

Outer dimensions: 9.5 x 8.25 x 3cm (3.7 x 3.25 x 1.18")

- 2108-1** Handy Mini Slide Box, White ○each
- 2108-2** Handy Mini Slide Box, Red ●each
- 2108-3** Handy Mini Slide Box, Green ●each
- 2108-4** Handy Mini Slide Box, Blue ●each
- 2108-5** Handy Mini Slide Box, Yellow ●each
- 2108-6** Handy Mini Slide Box, Black ●each

■ Microscope Slide Mailer

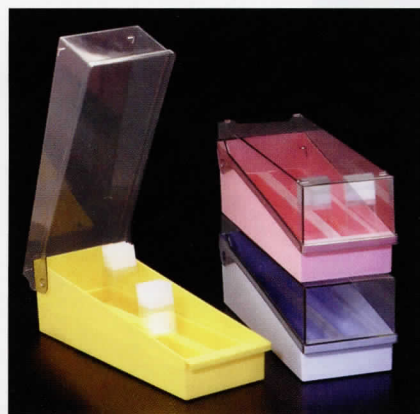


Disposable staining container is also useful for shipping and storage. Polypropylene container holds 5 of 3 x 1" slides in place so they will not

touch a mailer wall. Positive lock and flip-top.

- 22518** Microscope Slide Mailer, Transparent . . .pkg/100
- 22519** Microscope Slide Mailer, Blackpkg/100

■ SlideFile™ Storage System



The most convenient, organized and versatile way of storing 75 x 25mm or 3 x 1" microscope slides. Holds up to 400 slides per unit and is stackable. It includes a slide box and removable tray. A tinted hinged cover makes the contents easy to see. The base is available in 5 colors to help slide identification.

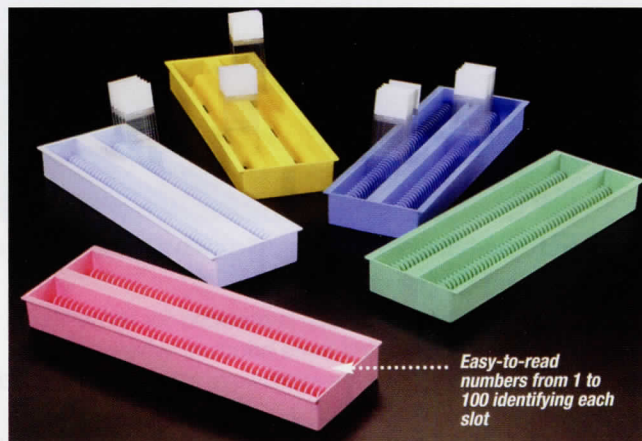
The removable tray has 100 individually numbered slots. All slides are stored upright for easy removal. Simply tilt them forward and backward with one finger to easily pick up the slide you need. A unique feature is to easily read bar codes without removing the slides from the box. For space saving purposes you can double the amount of slides by storing 2 slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term

storage. Will resist temperatures between -80°C to +80°C (-112°F to 176°F)

- 22530** SlideFile™ Storage System, Blue ●each
- 22531** SlideFile™ Storage System, Green ●each
- 22532** SlideFile™ Storage System, Pink ●each
- 22533** SlideFile™ Storage System, White ○each
- 22534** SlideFile™ Storage System, Yellow ●each

■ DrainRack™

made of high impact polystyrene

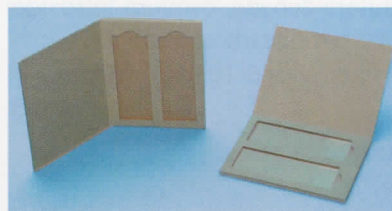


Easy-to-read numbers from 1 to 100 identifying each slot

The rugged tray used as a drain rack can hold up to 200 microscope slides in 100 individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily pick up the slide you need. A unique feature is to be able to read bar codes without having to remove the slides from the rack. For space saving purposes, you can double the amount of slides simply by storing 2 slides per slot giving you a capacity of 200 instead of 100 slides. Not autoclavable.

- 22530-10** DrainRack™, Blue ●case/10
- 22530-11** DrainRack™, Green ●case/10
- 22530-12** DrainRack™, Pink ●case/10
- 22530-13** DrainRack™, White ○case/10
- 22530-14** DrainRack™, Yellow ●case/10

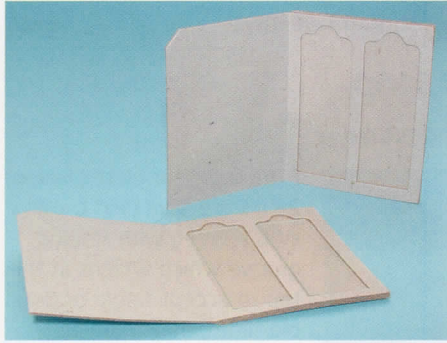
■ 2-Slide Mailer



Made of the same thickness chipboard as the Pop-Up 20 Slide Holder, measuring 7.6 x 10.8cm (3" x 4-1/4") when closed. It is designed to accommodate two 3 x 1" glass slides. Each Mailer conforms to U.S. Postal Regulations regarding minimum size for First Class Mailing. Supplied in packages of 24 Mailers or cases of 288.

- 2109-24** 2-Slide Mailerpkg/24
- 2109** 2-Slide Mailercase/288

■ Economy 2-Slide Mailer

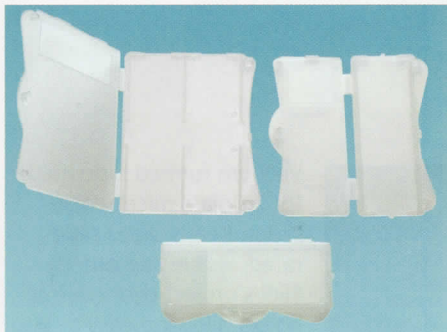


Made from chip-board .053" thick, measuring 7.6 x 9.5cm (3 x 3-3/4") when closed. It is designed to accommodate two 3 x 1" glass slides. Each Mailer conforms to U.S. Postal Regulations regarding minimum size for First

Class Mailing. Supplied in packages of 100.

2114 Economy 2-Slide Mailerpkg/100

■ Plastic Slide Mailer, Single or Double



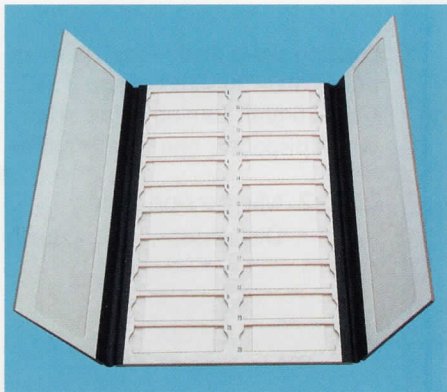
Sturdy, hinged slide mailer made from translucent plastic. Three "snap points" for secure closure and a smooth finish area or "window" so "write on" end of slide is visible without opening. The remainder of the exterior is a flat finish

to better hold notations done in permanent marker. Designed to accommodate 3 x 1" slides. Pictured are the double and single mailer in open position and below, the single mailer closed.

21093 Slide Mailer, Single PPpkg/100

21094 Slide Mailer, Double PPpkg/100

■ Pop-Up 20-Slide Holder



This sturdy Pop-Up Slide Holder holds 20 standard 3 x 1" slides in compartments numbered to correspond to the printed index on the cover. The compartments are recessed so the specimens can't be touched when the covers are closed. Slides pop-up with a slight pressure at one

end. Each holder is made of heavy pressed cardboard with a mist gray finish. Hinged covers are attached with durable tape.

Closed dimensions are 20.3 x 34.3 x 0.9cm (8 x 13.5 x 0.34").

2110 Pop-Up 20-Slide Holdereach

■ Economy Pop-Up 20-Slide Holder



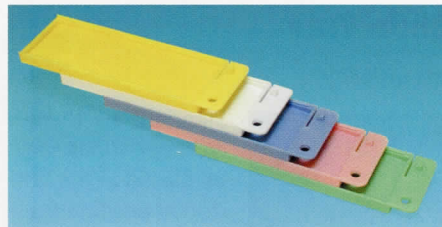
The economy pop-up 20 slide holder also holds 20 standard 3 x 1" slides in compartments, numbered to correspond with the printed index on the inside of the cover. Covers are recessed to avoid touching the cover slips on the slides. Slides can eas-

ily be removed from the compartments. Compartment holder is made from a double layer of densely pressed cardboard, cover is a single layer cardboard. Inside and back are finished with a clear white layer of glossy paper. Hinged top covers are finished in matt blue and are attached with thin but durable tape.

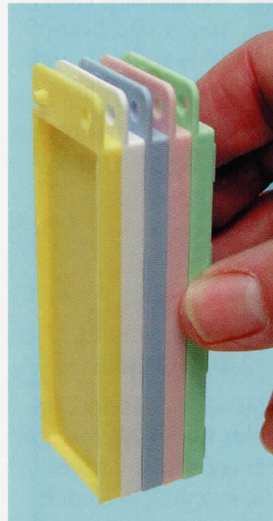
Closed dimensions are 20 x 33.2 x .7cm (7.79 x 12.68 x .28")

2115 Economy Pop-Up 20-Slide Holdereach

■ UniMailer™



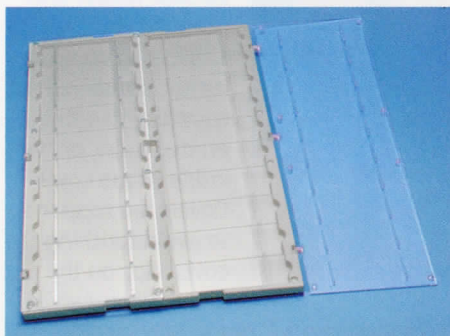
A new model for storing or shipping one or as many slides as needed. Made of high impact polystyrene and designed to accommodate 25 x 75mm (3 x 1") slides with or without cover glasses.



They fit snugly in a horizontal position on top of each other and are secured by an innovative locking mechanism. You may also insert a tamperproof tie through the hole or attach an ID label. Identification markings can be made on three sides or on top. Available in 5 colors for easy sorting.

22535	UniMailer™, Blue ●	.....pkg/50
22536	UniMailer™, Green ●	.....pkg/50
22537	UniMailer™, Pink ●	.....pkg/50
22538	UniMailer™, White ○	.....pkg/50
22539	UniMailer™, Yellow ●	.....pkg/50

■ Plastic Slide Holder Tray with Clear Plastic Hinged Covers



2113 Plastic Slide Holder Tray, with 2 hinged, clear plastic covers.

Designed to hold up to 20 3 x 1" slides.

2113 Plastic Slide Holder Tray, with Clear Plastic Hinged Coverseach

Same as above but without the Plastic Covers

2112 Plastic Slide Holder Tray, without folding coverseach

■ Microscope Slide Tray

white background for stain visibility



Standard 3 x 1" microscope slides can be placed in the horizontal position for full visibility. Each tray is 19 x 34cm (7-1/2" x 13-1/2") and holds 20 slides.

Designed to hold up to 20 3 x 1" slides.

2230 Microscope Slide Traypkg/6

■ Slide Tray Cabinet



compact cabinet holds 12 trays, 240 3 x 1" slides

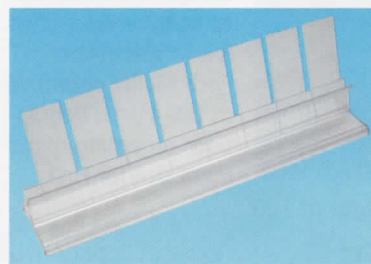
This 240 slide capacity cabinet holds twelve Microscope Slide Trays, shown above (2230), in a dust free enclosure. The outer shell is white polypropylene, tray rails are polystyrene and the vertically sliding door is clear acrylic with a knob for easy opening. Dimensions are 20.7 W x 25.4 H x 35.5cm Deep (8-3/16" W x 10" H x 14" Deep) **Cabinet only**, order Slide Trays

separately, prod. No. 2230. Distance between slide trays when in the cabinet is 1.5cm (.59").

2229 Slide Tray Cabinet, without trayseach

■ Slide Holder Strip

slot for holding on end, drain ledge



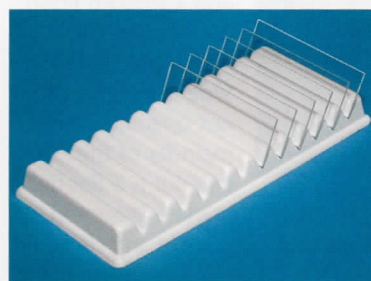
Extruded clear plastic holder 25 x 5 x 2.9cm (10" L x 2" W x 1-1/8" H) with sloping groove which widens at the top to accept single or double slides, maximum 10 standing on end and edge to edge. Front ledge can support slides left to dry (maximum 3 laying on side).

Weight 85g (3 oz.). Packaged individually.

2236 Slide Holder Stripeach

■ Slide Holder

drains slides



Vacuum formed slide holder for 12 glass microscope slides. Keeps slides separated, visible and orderly. Slides project over edge of holder allowing easy pickup. 86 x 178 x 19mm High (3-3/8" x 7" x 3/4" High). Package of 6.

2235 Slide Holderpkg/6

■ Microscope Slide Dispenser



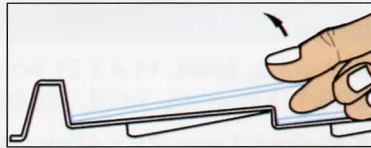
Loading slides made easy. Holds approximately 90 slides of size 3 x 1" (76 x 26mm). Turning either side, wheel dispenses one slide at a time.

22522 Microscope Slide Dispensereach

■ Microscope SlideTray™

The SlideTray™ is a convenient microscope slide holder made of heavy-duty plastic lasting many years even under the most adverse conditions.

The SlideTray™ will hold up to 20 microscope slides in an almost horizontal position. Each slide can be easily removed and placed back in its position.



slides are easily inserted and removed with only two fingers



It is easily stackable and will take minimum space on any shelf or laboratory counter. Even when trays are stacked, slides are well protected and will not touch the tray above.

Available in 4 colors.

2116-1	● Blue	SlideTray™	.....case/10
2116-2	● Green	SlideTray™	.....case/10
2116-3	○ White	SlideTray™	.....case/10
2116-4	● Yellow	SlideTray™	.....case/10

■ View-Pack™ Microscope Slide Holder with Ring Binder

for orderly, visual display and safe transport of microscope slides



The standard 23 x 30cm (9" x 12") 3-ring loose-leaf binder comes complete with ten 22 x 27cm (8-1/2" x 10-1/2") vinyl View-Pack™ Microscope Slide Holder Pages (enough for 160 slides). Each page holds 16 slides 25 x 75mm (3" x 1") in individual pockets with a white back and clear front. A center flap keeps slides from falling out. Simply fold the page at the center crease to retrieve slides. Additional View-Pack™ Microscope Slide Holder Pages are also available. 10 sheets per pkg.

- 2111** View-Pack Microscope Slide Holder, with Ring Binder and 10 Pageseach
- 2111-10** View-Pack Microscope Slide Holder Pages pkg/10

Histology Cleaning Alconox®

biodegradable, concentrated, residue free

Alconox detergents set the standards for critical cleaning. Scientists, engineers, and professionals specify Alconox detergents in their cleaning procedures for optimum economy, environmental safety and performance.

■ Alconox® Powdered Precision Cleaner

powdered precision cleaner



Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Ideal for cleaning contaminants from glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Excellent replacement for corrosive acids and hazardous solvents. USDA authorized. Dilute 1:100. pH 9.5. **M**

- 81125** Alconox® Powdered Cleaner, 4 lbeach

■ Liqui-Nox® Critical Cleaning Liquid Detergent from Alconox

liquid detergent



Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Extremely mild and completely soluble in hard and soft water. USDA authorized. Dilute 1:100. pH 8.5. **M**

- 81126** Liqui-Nox® Cleaning Liquid Detergenteach

Tissue-Tek® NEUTRA-GUARD™ Aldehyde Control System safe, efficient, economical

- Four unique products for fast, safe, efficient aldehyde neutralization
- Eliminates exposure to potentially hazardous conditions
- Certified technology for treating formalin waste
- Complies with federal, state and local ordinances

■ Neutra-Form™



- Fast, effective control agent for accidental aldehyde spills
- Diminishes harmful vapors
- Neutralizes hazardous aldehydes
- 2 containers, each container neutralizes larger spills of 10% formalin or 2% formaldehyde. **For Sale in U.S.A. Only** **M**

- 19975** Neutra-Form™, 1.4kg, (50 oz.)each

M = MSDS on web page

Neutrex™

- CAL/EPA certified technology
- Complete aldehyde neutralization in 15 minutes
- No drain-clogging polymer by-products
- Final neutralization levels down to 10 ppm
- No pH adjustment
- Easy to use: Premeasured powder pouches are easy to use, convenient to store, won't leak or freeze during the winter months.



16 premeasured pouches (each pouch neutralizes 4 liters or 1 gallon). **For Sale in U.S.A. Only**

19976 Neutrex™ Starter Pack (includes 16 pouches of Neutrex™, aldehyde test kit [for 100 tests] and a 9.5L reaction container)each

19977 Neutrex™, 16 poucheseach

Neutra-Pads™

- Revolutionary grossing pad that absorbs and neutralizes 10% formalin
- Significantly reduces the effects of noxious vapors
- Unique pad design encapsulates formalin and promotes neutralization
- Exclusive plastic pad backing prevents escape of harmful liquids; keeps grossing area drier, cleaner, safer



pad size: 20.3 x 25.4cm (8 x 10"). **For Sale in U.S.A. Only**

19979 Neutra-Pads™case/100

Neutra-Wipes™



- Rapidly absorbs and neutralizes small formalin spills
- Significantly reduces the effects of noxious vapors
- Perfect liner for tissue transporting trays
- Ideal as a shelf liner in tissue storage areas
- Convenient pop-up dispensing container provides fast accessibility to wipes. **For Sale in U.S.A. Only**

19981 Neutra-Wipes™ Starter Pack (one dispenser roll of 60 Neutra-Wipes™)each

19983 Neutra-Wipes™case/4 rolls

Kimwipes®



Kimwipes, Small, 11.4 x 21.6cm (4.5 x 8.5")

808-1 Kimwipes, Small, 280/boxcase/12

Kimwipes, Large, 38 x 43cm (15 x 17")

808-2 Kimwipes, Large, 140/boxeach

Holder - Dispenser for Kimwipes®



Holds one box of the Small Kimwipes, 11.4 x 21.6cm (4.5" x 8.5") size. Center column keeps tissues pushed up to the top for easier dispensing.

808-10 Holder - Dispenser for Kimwipes, Small Box . . .each



Multi-Wipes™

An alternative laboratory wipe, at large savings. Wipes are made from 100% recycled paper fibers.

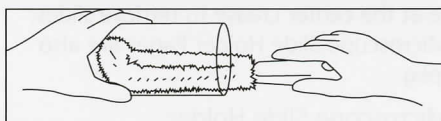
MultiWipes™, Small, 11.4 x 21.1cm (4.5 x 8.3")

809-1 Multi-wipes, Small, 280/boxcase/12

MultiWipes™, Large, 38.1 x 42.2cm (15 x 16.6")

809-2 Multi-wipes, Large, 140/boxeach

Jar Washing Brush



Tough plastic bristles will not damage delicate glassware. Stiff, non-bending. Handle and bristles are polypropylene. Length from handle to tip of brush: 146mm (5-3/4").

Brush length x diameter: 146mm (x2) x 25mm dia. (5-3/4" (x2)" x 1" dia.). Twisted pair wire overall diameter: 5.1mm (.2").

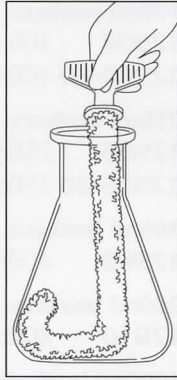
11939 Jar Washing Brushpkg/2

■ Cylinder Soft Brush, $\frac{3}{4}$ "

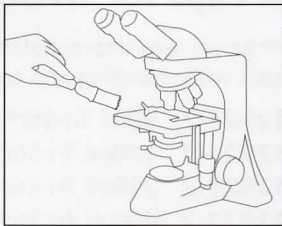


Can easily be bent to shape by pushing down into container. Handle is polypropylene, bristles are closed cell polypropylene foam. Length from handle to tip of brush: 37.4cm (14- $\frac{3}{4}$ "). Brush length x diameter: 37.4cm x 19mm dia. (14- $\frac{3}{4}$ " x $\frac{3}{4}$ " dia.).

11935 Cylinder Soft Brush, $\frac{3}{4}$ "each



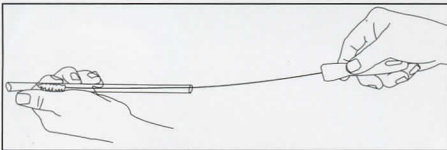
■ Soft Instrument Duster



For microscopes, printed circuits, laboratory instruments, keyboards, etc. Handle and bristles are polypropylene. Total length: 16.5cm (6- $\frac{1}{2}$ "). Brush length x diameter: 41mm x 19mm dia. (1- $\frac{5}{8}$ " x $\frac{3}{4}$ " dia.).

11944 Soft Instrument Dusterpkg/2

■ Thin Tube Cleaning Brush

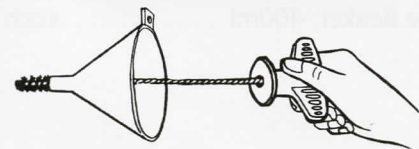


Use to clean thin tubing. Handle and bristles are polypropylene. Length from handle to tip of brush: 35cm (13.8").

Brush length x diameter: 32mm x 8mm dia. (1.25" x $\frac{5}{16}$ " dia.).
Twisted pair wire diameter: 2.9mm (.115").

11900 Thin Tube Cleaning Brushpkg/4

■ Strong Spout and Tube Brush



Heavy twisted wire for bend resistance. Handle and bristles are polypropylene. Length from handle to tip of brush: 30cm (12").
Brush length x diameter: 89mm x 9.5mm

dia. (3- $\frac{1}{2}$ " x $\frac{3}{8}$ " dia.) with taper at tip.

Twisted pair wire diameter: 2.9mm (.115").

11902 Strong Spout and Tube Brushpkg/3

■ Pipe and Drain Brush



Thin, flexible brush. Handle and bristles

are polypropylene.

Length from handle to tip of brush: 33.7cm (13- $\frac{1}{4}$ ").

Brush length x diameter: 34mm x 8mm dia. (13- $\frac{1}{4}$ " x $\frac{5}{16}$ " dia.) with taper at tip.

Twisted pair wire diameter: 2.9mm (.115").

11904 Pipe and Drain Brushpkg/3

■ Test Tube Brush



Brush may be spread apart to adjust to size.

Handle and bristles are polypropylene.

Length from handle to tip of brush: 16.8cm (6- $\frac{5}{8}$ ").

Brush length x diameter: 34mm x 11mm dia. (6- $\frac{5}{8}$ " x $\frac{7}{16}$ " dia.).

Twisted pair wire diameter: 2.9mm (.115").

11906 Test Tube Brushpkg/2

■ Large Jug Brush



Multi-purpose brush cleans hard-to-reach areas.

Handle and bristles are polypropylene.

Length from handle to tip of brush: 39.4cm (15- $\frac{1}{2}$ ").

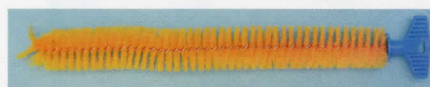
Brush (1) length x diameter: 28.6cm x 48mm dia. (11- $\frac{1}{4}$ " x 1- $\frac{7}{8}$ " dia.).

Brush (2) (tip) length x diameter: 29mm x 22mm dia. (1- $\frac{1}{8}$ " x $\frac{7}{8}$ " dia.).

Twisted pair wire diameter: 8.13mm (.320").

11912 Large Jug Brusheach

■ Long Bottle and Flask Brush



Can be bent to conform to interior curve of flask. Can be used with hot water.

Handle and bristles are polypropylene.

Length from handle to tip of brush: 40.6cm (16").

Brush length x diameter: 40.6cm x 48mm dia. (16" x 1- $\frac{7}{8}$ " dia.).

Twisted pair wire diameter: 6.4mm (.252").

11914 Long Bottle and Flask Brushpkg/2

LABORATORY SUPPLIES, GENERAL

Ampoule Breakers; Beakers



■ Ampoule Breaker; Soft Silicone

A simple way to break ampoules. Takes 5, 7, and 10ml ampoules. Reduces injury and spillage.

439-5 Ampoule Breaker, Siliconeeach

■ Ampoule Cracker; Disposable



for safely opening prescored ampoules

Slip the Ampoule Cracker over the top of the ampoule at the prescored portion, press on collar to snap off the top. Discard the top along with the Ampoule Cracker (**using proper safety precautions for hazardous waste disposal**).

The Ampoule Cracker not only has applications for electron microscopy, but also for blood gas reagents, pharmaceuticals, electrolyte and flame standards, anesthesiology solutions, nursing and manufacturing. Useful anywhere ampoules need to be opened. Patent pending.

18405 Ampoule Cracker, Disposable, 1-4ml size . .pkg/100

18407 Ampoule Cracker, Disposable, 11-20ml sizepkg/100

■ Tri-Stir® Disposable Plastic Beakers



Convenient measuring and stirring of EM and other chemicals, pours without dripping, a disposable alternative to your laboratory glassware.

Polypropylene Tri-Stir® Disposable Beakers are graduated, stackable, disposable, sterilizable and have three shallow dripless pouring spouts. The Tri-Stir® Disposable Plastic Beaker is useful for EM/LM specimen preparation.

50ml beakers: 10 to 50ml in 10ml increments

12902 50ml Tri-Stir® Beakerspkg/100

100ml beakers: 10 to 100ml in 10ml increments

12904 100ml Tri-Stir® Beakerspkg/100

12904-20 100ml Tri-Stir® Beakerspkg/20

250ml beakers: 30 to 250ml in 20ml increments

12906 250ml Tri-Stir® Beakerspkg/100

12906-20 250ml Tri-Stir® Beakerspkg/20

400ml beakers: 40 to 400ml in 40ml increments

12908 400ml Tri-Stir® Beakerspkg/100

800ml beakers: 50 to 800ml in 50ml increments

12910 800ml Tri-Stir® Beakerspkg/100

1000ml beakers: 50 to 1000ml in 50ml increments

12912 1000ml Tri-Stir® Beakerspkg/100

■ Caps for Tri-Stir® Beakers

Write-on, wax-impregnated cardboard caps for protection against spills while handling and carrying.

12921-2 50ml Tri-Stir® Beaker Capspkg/100

12923-2 100ml Tri-Stir® Beaker Capspkg/100

12925-2 250ml Tri-Stir® Beaker Capspkg/100

12927-2 400ml Tri-Stir® Beaker Capspkg/100

12929-2 800ml Tri-Stir® Beaker Capspkg/100

12931-2 1000ml Tri-Stir® Beaker Capspkg/100

■ Polypropylene, Pyrex® and Stainless Steel Beaker



The Pyrex® and Polypropylene beakers are graduated in ml. Easy pour lip on all four. All listed below will also work with ultrasonic cleaners.

17329 Pyrex® Beaker, 250mleach

17309 Pyrex® Beaker, 400mleach

17327 Pyrex® Beaker, 600mleach

17328 Stainless Steel Beaker, 600mleach

17310 Polypropylene Beaker, 400mleach