Shandon Tissue Processors



Shandon Excelsior™
Shandon Pathcentre®
Shandon Citadel™
Tissue Processing
Consumables



# **Shandon Excelsior™ Tissue Processor**

The new center of excellence in tissue processing



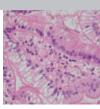
- Downdraft Fume Control
- In-Process Reagent Management
- Power Outage Management Battery Back-Up
- Pre-Heated Reagents
- Remote Monitoring and LIMS Interface

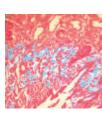


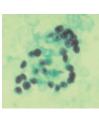
#### **Features**

- 222 cassette capacity with the organized basket and up to 300 with the random basket\*.
- Sloped lid design allows for excess condensation removal during processing.
   Glass lid allows for viewing during processing.
- 12 customized programs and 3 flush options.
- 3 wax baths.
- Multilingual screen displays.
- Baskets are microwavable and designed to be used in conjunction with microwave pre-fixation. Organized baskets have unique interlocking design.
- 5 levels of counter-stir agitation available.
- 7 password protected areas.
- 3 distinct fill levels to reduce process time.
- Dehydrant and clearing agents can be preheated for more rapid and consistent processing.
- · Vacuum cycling.
- Complete temperature control with ambient option.











# **Shandon Excelsior™ Rotation Concept**

#### Principle:

#### **Specific Gravity**

- Specific gravity is monitored in the 1st alcohol.
- When a set point is established and reached, the Shandon Excelsior will prompt you to start a rotation cycle during your next processing run.

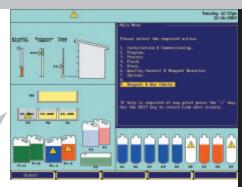
This revolutionary process has enabled hundreds of the new Shandon Excelsior customers to significantly reduce reagent usage.

Rotation of alcohols, clearants, and waxes occurs during 2 normal processing runs.

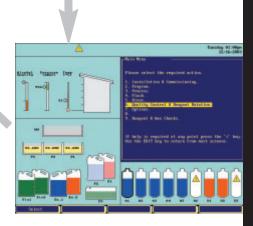
**1st processing run:** the oldest reagents are discarded into the waste containers and the remaining reagents are rotated to their next position.



**2nd processing run:** the fresh reagents are drawn into the reaction chamber when needed during processing and placed into their appropriate bottles when the step is complete.



Fresh reagents are fitted into the 2 exchange areas (alcohol and clearant) and wax pellets are added to 3rd wax bath.



#### **Reagent Savings**

The average Shandon Excelsior user changes reagents approximately every 1,500 cassettes when using specific gravity monitoring.

#### Rotation uses:

- 1 gallon (3.8L) Alcohol
- 1 gallon (3.8L) Xylene
- 1 gallon (3.8L) Wax

#### Example of typical savings from an average user:

Annual Reagent Savings Calculator	Alcohol	Xylene	Wax	Labor
Consumption Changed per week on current tissue processor	6 gallons (22.8L)	2 gallons (7.6L)	1 gallon (3.8L)	3 hours
Number of cassettes run per week	1,110	222 cassettes	per day, 5 days per wee	ek

Results do not include fixatives or flush reagents	Current Tissue Processor	Excelsior Tissue Processor	Savings by using the Excelsior Tissue Processor	Percent reagent savings
Alcohol / Gallons	313 (1189L)	38 (144L)	275 (1045L)	88%
Xylene / Gallons	105 (339L)	38 (144L)	67 (255L)	63%
Wax / Gallons	52 (198L)	38 (144L)	14 (53L)	26%
Labor hours	156	3	153	98%

This example shows an 88% reduction in alcohol use, a 63% reduction in xylene use and a 26% reduction in wax use on a single tissue processor. Best of all, there is a savings of 153 hours of labor per year.

## **Downdraft Fume Control**



In the state-of-the-art reaction chamber, reagent circulates freely around specimens, with downdraft fume extraction.

#### Safety

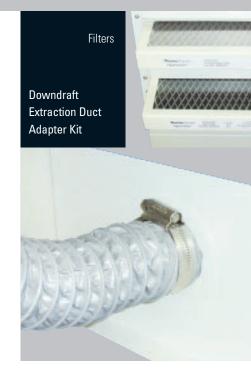
- Reaction chamber has Downdraft
   Ventilation for reducing exposure
   to hazardous vapors when adding
   specimens after the process has started.
- Potassium permanganate and charcoal filters for fume control.
- Downdraft Extraction Duct Adapter Kit available for venting into a facility fume hood.

#### **Reagent Handling**

- Automatic in-process reagent and wax rotation. No more pouring!
- User's choice of monitoring reagent rotation by days, runs, cassette count or specific gravity of alcohol.

#### **Reagent Storage**

- Can be used with commercial 3.8 to 5.0 liter reagent bottles.
- Built to flammable cabinet specifications.
- · Lockable doors for added safety.
- Main Air System Duct Adapter Kit available for venting into a facility fume hood.



#### **Temperature Uniformity**

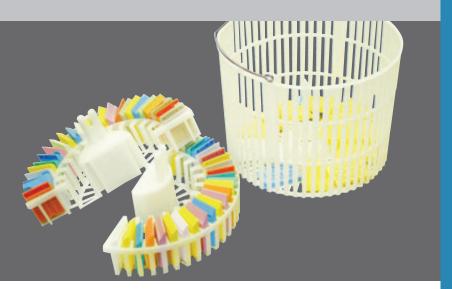
The main feature of the circular reaction vessel is its no-corners design. This means greater temperature uniformity; no hot spots; and even distribution of reagents to allow adequate processing of specimens.

#### **Agitation**

The reaction vessel's no-corners design also allows for continuous agitation. The counter-stir agitation system has 5 levels of stirring. The specimen basket rotates gently enough that even very delicate and friable specimens are safe. It provides all the mixing required without having to move fluid in and out from the reaction chamber.



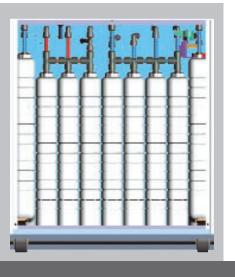
Interior of reagent storage cabinet



#### **Microwavable Baskets**

Basket Design

- Organized and random baskets provided.
- Newly developed plastic design allows for microwaving of baskets.
- Organized baskets have unique interlocking design.



#### **Specimen Protection**

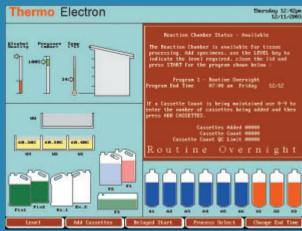
- Battery back-up for safely processing specimens in the event of a power outage.
- 2 remote alarms to signal possible problems.
- Remote monitoring capabilities (Netmon Remote Monitoring).
- Automatic underfill recovery to finish processing in the safest environment possible.

#### **Hidden Bottles and Preheating Area**

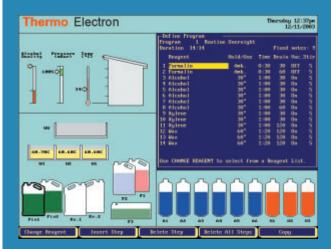
- The hidden bottles will hold 5 liters of reagent
- Preheating of reagents in this area is available.

#### **Intelligent Software**

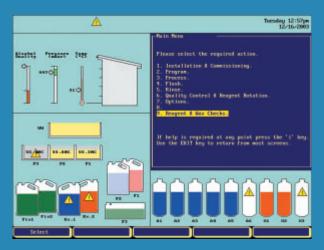
- User-friendly software is like having an electronic user's manual at your fingertips.
- Easy to use international icons (see page 8).
- Disk drive to save quality control reports, event logs, and program information.
- LIMS (Laboratory Information Management Systems) interface capabilities



Starting the Instrument



Programming



Reagent Rotation

#### Shandon Excelsior<sup>™</sup> Specifications

100-240V, 50/60Hz, 1Ph	Order No.
Shandon Excelsior	A78400001

Physical Specifications		
Dimensions:		
Height:	63.0"	(160 cm) to top of monitor
	44.5"	(113 cm) to monitor platform
Width:	26.5"	(67 cm)
Depth:	20.5"	(52 cm)
Weight:	246.5 lbs	(112 kg)
Power Requirements:	950VA (maximum); 200VA (typical)	

Environment	
General:	Indoor use only
Temperature (operation):	+5°C to +40°C
Temperature:	-25°C to +55°C (+70°C for short exposure)
(transit/storage)	
<b>Humidity:</b> 80% max. for temperatures <31°C	
	50% max. for temperatures 31° to 40°C
	(non-condensing environment)
Altitude:	up to 6,500 feet (2000m)
Pollution degree:	2
Over voltage category:	II .

Included with Product	
Filter Formaldehyde (Potassium Permanganate) – Each	9990612
Filter Vapor (Charcoal) – Each	9990610
Organized Basket (6 baskets)	A78410025
Random Basket	A78410021
Basket Lid (Organized and Random)	A78420056
Large Block Metal Divider (for Random Basket)	A78430198
Water Flush Bottle	A78420039
Storage Bottles – 5 liter (2 supplied)	See below
Waste Wax Drawer Kit (2 drawers, 1 lid, 1 cover)	A78410027
Monitor	AP14340
Operator Manual	A78410100
Service Record Book	A78410110
Spatula	P09046
Wax Fill Chute	A78430265
Wax Waste Liners (20)	AP14747
Wrench/Spanner	A78430308

Optional Accessories	
Filter Formaldehyde (Potassium Permanganate) – package of 6	B9990612CS
Filter Vapor (Charcoal) – package of 6	7411258
Service Manual	A78410101
Plastic Basket Carrying Container (microwavable)	B1002517
Storage Bottles – 5 liter (package of 6)	A78410026
Downdraft Extraction Duct Adapter Kit	A78410023
Main Air System Duct Adapter Kit	A78410024
Monitor Clamp Kit	A78410029

#### **Agency Approvals**

Designed to meet IEC1010, CSA, UL and CE Mark (IVDD compliant).



#### **Battery Back-up**

When the power fails, the Shandon Excelsior doesn't.

The Shandon Excelsior has a specially designed, built-in power management system that continually monitors the input power. In the event of any type of power interruption or fluctuation, the system will safely continue processing tissue for up to five hours running on battery power. Once the normal power is restored, the Shandon Excelsior will recharge so that it is ready for the next power interruption, whenever it might occur.

#### Shandon Excelsior™ Icons

A brief description of the icons.



Alerts you to **Demonstration Mode** 



Alerts you to a tripped **Over Temperature Breaker** 



Alerts you that the **Security Code Protection** is unlocked



Alerts you that **storage cabinet** is open



Alerts you that the Battery Back-up is not ON



Alerts you to a **Quality issue** with reagents



Alerts you to a condition that **requires attention** 



Alerts you of activation of your two Remote Alarms



Alerts you of activation of a Netmon connection

## **Shandon Netmon™ Service**

#### Shandon Excelsior™ Netmon



Shandon Excelsior Netmon is a service that directly connects the Shandon Excelsior in the customer's laboratory to the Thermo Electron Service Support Center in Pittsburgh, U.S.A., and Runcorn, U.K.\*
By using a dedicated telephone line at the customer site, high-value support services are made available to the user in a real-time manner.

# The Shandon Excelsior Netmon service includes:

- Monthly preventive maintenance review
- Monthly monitoring report for inclusion in the customer's Quality Management system.
- Rapid on-line diagnosis and resolution of system problems
- Escalation to service call, if required, with dispatch of needed spare parts
- On-line technical support to resolve operational issues

# Customized Monthly Report provides the following information:

- Four fundamental system tests
- Fluid Transfer Check
- Peak Fluid Temperatures
- Alcohol Quality Measurement
- Error Checks
- Signature of Service Support Engineer

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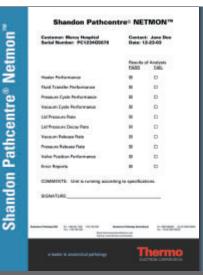
Please contact your local Sales Representative for ordering information.

Shandon Excelsior Netmon™ customized report

#### Shandon Pathcentre® Netmon™

A similar remote monitoring service is also available for the Shandon Pathcentre Tissue Processor to program and monitor the unit from any location via modem and personal computer. The service enhances preventive maintenance capabilities. Thermo Electron service technicians may access the unit (with your permission) from their base\* to perform on-line diagnostics or provide monthly monitoring service.

Please contact your local Sales Representative for ordering information.



Shandon Pathcentre® Netmon™ Remote Monitoring Report

- · Complete user control
- Excellent reagent agitation
- Remote monitoring capabilities
- Help screens guide the user through programming

## Shandon Pathcentre®

**Enclosed Tissue Processor** 



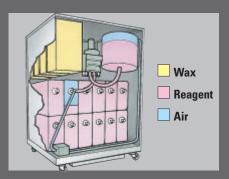
The Shandon Pathcentre is Thermo Electron's high-volume, totally enclosed tissue processor.

#### **Practical Design**

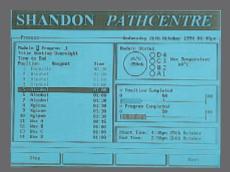
- Up to 306-cassette capacity plus the ability to add up to three extra processing modules for high throughput laboratories.
- Totally enclosed. Fumes stay within the system, and do not escape into your lab.
- Gentle counter-stir agitation and Shandon tidal flow system promotes maximum fluid penetration through baskets and cassettes for the ultimate in processing quality and consistency.
- 4 wax baths provide maximum specimen infiltration.
- Unique circular shaped reaction chamber optimizes temperature uniformity.
- Glass reaction chamber lid allows visual inspection of processing.
- · Lid automatically locks during processing.
- Sealed reaction chamber lid is easily operated with one hand.
- Plug-in reagent bottles have color-coded labels and are engineered for ease of use.

#### Flexible Programming

- Simple multi-lingual programming with full on-screen prompt graphics.
   Back-lit LCD monitor displays commands in English, French, Spanish, German, Italian or Swedish.
- User selectable processing parameters include heat, vacuum, pressure, immersion time, drain time and agitation.
- Stores 9 processing programs for each
  unit
- Wide reagent compatibility includes acetone and chloroform.
- Delayed start can be programmed in any reagent position. Options for heat, vacuum pressure, and agitation can be changed during delayed time.
- Real time programming with built-in clock and delayed start facility for overnight, weekend, and holiday periods. It can be programmed up to 7 days in advance.
- Multilevel pass-code security protects instrument from unauthorized access



The Pathcentre's "Closed Loop System" captures fumes from reagents inside the machine.



On-screen graphics guide the user through program commands. The screen displays the current point in the procedure.



In the state-of-the-art reaction chamber, reagent circulates freely around specimens.

Pull-out accessory drawer provides easy access to condensate bottle, charcoal filter, air bag and spillage bottle for routine maintenance.



#### **Specimen Safety**

- Automatic underfill recovery system
   protects your specimens by automatically
   rerouting reagents and completing
   processing.
- Independent, selectable flushes either standard flush or extended flush.
- You can choose a water rinse option at the end of flush.
- Audible and remote alarm signals are standard.
- Pathcentre will print out a record of programs, processing routines and realtime events when connected to a parallel 80-column printer.

#### **Quality Control**

 Pathcentre automatically alerts you when it is time for routine maintenance and service or to change reagents.

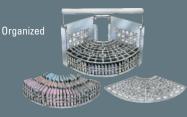
# Building THE Better Bottle The Pathcentre's high-dens

The Pathcentre's high-density polyethylene bottles were engineered for user convenience and efficiency. The translucent bottles each have a color-coded label. Corresponding labels on the instrument give technicians extra assurance that the bottle is in the correct position. Wide-based and wide necked, these bottles are easy to fill. Heavy-duty construction including shafts

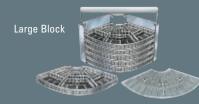


through the bottle centre for extra strength. Most importantly, the bottles plug directly and easily into position on the unit using a coaxial connection.

#### A Basket For Every Routine







Choose between an organized cassette basket or a random cassette basket in the initial kit. Baskets are interchangeable. Additional baskets or large block baskets may be ordered separately.

# Physical Specifications Dimensions (H x W x D):52" x 22" x 25" 132 x 56 x 63 cm Power Requirements: 1200VA Weight: 353 lbs. (160 kg) (net)

Included With Product	Reorder No.
Wax Drain Container	75210147
Reaction Chamber	
Drain Filter	75210154
Reagent Storage Bottles pk/3	A75210193
Reagent Bottle Labels	75210152
Airbag	66110048
Charcoal Filter	66110056
Overfill Sensor Cap	73910136
Tissue Basket Handle	75220419
Viton Seal	75230681
Wax Chamber Seal	75210149
Cassette Basket	See Order Info
Operator Manual (Specify Language)	75210150
Displacement Block	A75210197
(Organized Version Only)	
Reagent Bottle Pour Spout	P13433
Wax Drain Key	P12648
Mains Lead	Call For Info

Optional Accessories	neoraer No.
Large Block Basket (1 Segment)	75210166
Random Cassette Basket (1 Segment)	75210165
Organized Cassette Basket (1 Segment)	A75210192
Note: The Pathcentre reaction chambe segments. Organized, random or large used in combination.	
Wax Bag	75210161
Service Manual	75210151
Printer	1241180
Cable	1931002
Bottle Connector Seals	75210148
Reagent Bottle Caps pk/3	A75210194

#### Agency Approvals

Designed to meet IEC1010, CSA, and UL. CE Mark on 220-240V unit (IVDD compliant)



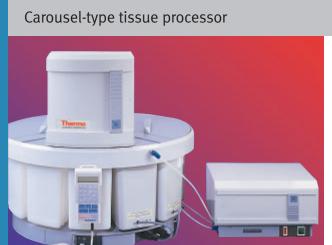
Extendible design–Add extra processing capacity without buying a complete new system. Up to 4 processing modules may be controlled by one command module.

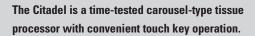
Description	Order Number
Pathcentre with Random Basket (110-120V, 50/60Hz)	75200012
Pathcentre with Random Basket (220-240V, 50/60Hz)	75200011
Pathcentre with Organized Basket (110-120V, 50/60Hz)	75200014
Pathcentre with Organized Basket (220-240V, 50/60Hz)	75200013
Extension Unit with Random Basket (110-120V, 50/60Hz)	75200112
Extension Unit with Random Basket (220-240V, 50/60Hz)	75200111
Extension Unit with Organized Basket (110-120V, 50/60Hz)	75200114
Extension Unit with Organized Basket (220-240V, 50/60Hz)	75200113
Portable Wax Station (110-120V, 50/60Hz)	75210202
Portable Wax Station (220-240V, 50/60Hz)	75210201

The Shandon Citadel fits conveniently inside the Shandon Hyperclean™ 2 Work Station. Sides of the work station can be removed and replaced easily for access to the equipment inside.

# **Shandon Citadel™ Tissue Processor**

**Order Vacuum Unit Separately.** 





- The Citadel 2000 has a **110-cassette capacity**, and the Citadel 1000 has a capacity for 60 cassettes.
- Integral fume hood.
- Reagent stations are easily removed from the unit for replenishing.
- Delayed start feature may be programmed up to 9 days in advance.
- Hand-held touch key controller is simple to use.
- Store up to 4 complete programs in the Citadel's memory.
- Program immersion time and agitation during each step.
- Loading station protects tissue baskets from air as the baskets are raised.
- The Citadel **protects** the user from open containers.
- The unit fits in most standard fume cabinets, as well as the Shandon Hyperclean™ 2 Work Station.
- **Optional vacuum unit** facilitates efficient and rapid wax infiltration of specimens.
- Unit has 10 reagent containers and 2 wax baths.
- Add extra wax stations for a maximum of 4 wax baths.
- Random and organized baskets available.
- Tissue baskets load and unload **easily** with hanger clips in the unit's hood.



Physical Specifications		
Dimensions:		
Shandon Citadel	Diameter: 27.2" (68 cm) Height: 25" (62.5 cm)	
Power Requirements:	500 VA	
Weight:	115 lbs. (52 kg)	
Vacuum Unit	Diameter: 27.2" (68cm) Height: 25" (62.5cm)	

Reorder No.	
69810030	
69810035	
69810037	
69810031	
69810053	
69810051	
69810018	
69810131	
69810040	

Ordering Information		
Shandon Citadel 1000,		69800001
220-240V 50/60Hz	English manual, UK 3 pin plug.	
Shandon Citadel 1000,		69800002
220-240V 50/60Hz GER	German manual, European 2 pin plug	g
Shandon Citadel 1000,		69800003
110-120V 50/60Hz USA	English manual, USA 3 pin plug.	
Shandon Citadel 2000,		69800004
220-240V 50/60Hz	English manual, UK 3 pin plug.	
Shandon Citadel 2000,		69800005
220-240V 50/60Hz GER	German manual, European 2 pin plug	g
Shandon Citadel 2000,		69800006
110-120V 50/60Hz USA	English manual, USA 3 pin plug.	
Shandon Citadel 2000,		69800007
220-240V 50/60Hz EUR	English manual, European 2 pin plug	
Shandon Citadel 1000,		69800008
220-240V 50/60Hz EUR	English manual, European 2 pin plug	
Vacuum Units for Shando	on Citadel,	69810025
110-120V	USA 3 pin plug	
Vacuum Units for Shando	on Citadel,	69810024
220-240V	UK 3 pin plug	
Vacuum Units for Shando	on Citadel,	A69810054
220-240V	European 2 pin plug	

# Optional Accessories: Shandon Citadel Service Manual 69810095

#### **Agency Approvals**

Designed to meet IEC1010, CSA, and UL. CE Mark on 220-240V unit (IVDD compliant)



The Shandon Citadel 2000's Random Cassette Basket (shown above, left) holds about 70 cassettes. The Shandon Citadel 2000's Organized Cassette Basket (above, right) holds 110 cassettes.

Not shown: The Shandon Citadel 1000 also has random and organized baskets. The unit's organized basket has a maximum capacity of 60. Random Basket capacity is about 40 cassettes.



	Shandon Paraplast®	Shandon Paraplast Plus	Shandon Paraplast X-tra	Shandon Precision Cut	Shar Histo	ndon plast
Form	Pellet	Pellet	Pellet	Pellet	Pel	let
Fixatives	Plastic	DMS0	Microcrystalline Wax	Purified Paraffin with Polymers	Contai Plastic P	
Special Use	General Purpose	Enhanced Infiltration & Sectioning	Thin Sectioning	Low polymer content for improved infiltration, Embedding. Good ribbon capability with longer blade life.	General	Purpose
Melting Point	56°-57°C	56°C	50°-54°C	52°-54°C 56°-58°C 62°-64°C	56-5	57°C
Packaging	18 lb/Bag x 8 (1 kg)	18 lb/Bag x 8 (1 kg)	18 lb/Bag x 8 (1 kg)	4 x 2.5 kg	22 lb/Bag (10 kg)	5.5 lb/Box (2.5 kg)
Order No.	501006 <b>C€</b> №	502004 <b>€</b> №D	503002 <b>€</b> №	B24209 B1002490 B24210	6774060	6774006





#### **Shandon Biopsy Bags**

- Allows unrestricted fluid movement around tissue.
- · Reduces risk of small specimen loss.
- Reduces reagent carry-over and pressure artifact often found with sponges.
- · Peel-open, acid resistant Biopsy Bags conveniently expose specimen for rapid removal and have all the benefits of regular biopsy bags plus acid resistance for use in decalcification.

Description C	€ IVD			Pkg/Qty	Order No.
Nylon	(Small)	1" x 1.33"	(30 x 40 mm)	200/Pk 500/Pk 1000/Pk	6774014 6774015 6774010
Nylon	(Medium)	1.75" x 3"	(45 x 75 mm)	200/Pk 500/Pk 1000/Pk	6774012 6774013 6774009
Nylon	(Large)	3" x 3.75"	(75 x 95 mm)	500/Pk	6774011
Acid Resistant	(Small)	1" x 2"	(30 x 50 mm)	250/Pk	6774051
Acid Resistant	(Medium)	1.75" x 3"	(45 x 75 mm)	250/Pk	6774050
Acid Resistant	(Large)	3" x 3.75"	(75 x 95 mm)	250/Pk	6774052



#### **Shandon Biopsy Processing/Embedding** Cassettes II

Qty: 500/Box Pore Style: Small, Square Locking lid attached by two hinges

Color	Order No.
White	1001097
Pink	1001098
Green	1001099
Yellow	1001100
Blue	1001101
Gray	1001104
Orange	1001106
Peach	1001102
Tan	1001103
Lilac	1001105
Aqua	1001107
Dark Green	B1001005
Dark Red	B1001006
Dark Blue	B1001007



#### **Shandon Biopsy Processing/Embedding** Cassettes I

Qtv: 500/Box Pore Style: Small, Square Locking lid attached by two hinges

Color	Order No.
White	1000968
Pink	1001090
Green	1000969
Yellow	1000970
Blue	1001091
Gray	1000971
Orange	1001095
Peach	1001092
Tan	1001093
_ilac	1001094
Aqua	1001096
Dark Green	B1000999
Dark Red	B1001000
Dark Blue	B1001001



#### **Shandon Processing/ Embedding Cassettes II**

Qty: 500/Box Pore Style: Slotted Locking lid attached by two hinges to open from front or back

Color	Order No.
White	1001061
Pink	1001060
Green	1001059
Yellow	1001058
Blue	1001057
Gray	1001054
Orange	1001052
Peach	1001056
Tan	1001055
Lilac	1001053
Aqua	1001051
Dark Green	B1001002
Dark Red	B1001003
Dark Blue	B1001004



#### Shandon Microsette® **Biopsy Cassettes**

Qty: 1000/Case (4 x 250 per box) Pore Style: Small holes of 0.36 mm diameter

Large compartment measuring 25 x 30 mm for maximum fluid exchange

Color	Order No.
White	B1000733WH
Pink	B1000733PK
Green	B1000733GR
Yellow	B1000733YW
Blue	B1000733BL
Gray	B1000733GY
Orange	B10007330R
Peach	B1000733PE
Tan	B1000733TN
Lilac	B1000733LI
Aqua	B1000733AQ
Dark Green	B1000733DGR
Dark Red	B1000733DRD
Dark Blue	B1000733DBL



#### **Shandon Biopsy Embedding Cassettes**

Oty: 1000/Case (4 x 250 per box)

Order No.
B1000735WH
B1000735PK
B1000735GR
B1000735YW
B1000735BL
B1000735GY
B10007350R
B1000735PE
B1000735TN
B1000735LI
B1000735AQ

#### Shandon Formal-Fixx™ and Formal-Fixx Concentrate

- Phosphate-free, 10% neutral buffered formalin produces consistent results, and extends life of rotary valve.
- Store all specimens without excessive shrinking or hardening.
- Premixed, ready-to-use.
- Use for storage of all tissue **eliminates presorting** of EM specimens.
- Available in **economical concentrate** just add water or
- Concentrate is **not affected by freezing**, reduces shelf space and is less expensive to ship.
- Prefilled, leak resistant cups are available. Cups are packed in sturdy trays for courier transport.

Description (€ IVD	Pkg/Qty		Order Number
Ready-To-use	19 L x 1		6764240
Pre-filled Cups	20 ml Cups,	filled To 10 ml, 180/Case	9990910
	60 ml Cups,	filled To 30 ml, 125/Case	9990914
	90 ml Cups,	filled To 45 ml, 125/Case	9990916
	120 ml Cups,	filled To 60 ml, 125/Case	9990918
Concentrate (5x)	3.8 L x 1	(makes 19L)	6764254
	1L x 2*	(makes 5L)	9990244

#### **Shandon Xylene**

- · Clearing agent for processing, staining and coverslipping.
- A filtered, quality reagent.
- Color-coded bottle for Shandon Excelsion



Description	Pkg/Qty	Order Number
Xylene	4 L x 1*	9990501
	10 L x 2	9990502
	55 Gal. (209 L) x 1	9990503

#### Shandon Xylene Substitute

- · A safer, more convenient alternative to xylene for processing, staining and coverslipping.
- · Airborne exposure limit three times safer than xylene (TLV 300 ppm).
- Virtually odorless aliphatic hydrocarbon no citrus aroma.
- Not sensitizing to normal skin.
- Evaporation rate similar to xylene slides dry quickly.
- Greaseless
- Can be **recycled** with solvent recyclers.
- Color-coded bottle for Shandon Excelsion

Description	Pkg/Qty	Order Number
Shandon Xylene Substitute	4 L x 1*	9990505
	4 L x 4*	6764506
	10 L x 2	6764508
	5 Gal. (19 L) x 1	9990507
	55 Gal. (209 L) x 1	9990509

#### Shandon Reagent Alcohol

- Blend of 90% absolute ethanol; 5% methanol; 5% isopropanol.
- · A filtered, quality reagent.
- Use in place of absolute (100%) ethanol for most pathology procedures.
- No license required by Bureau of ATF.
- · Color-coded bottle for Shandon Excelsion



Description	Pkg/Qty	Order Number
Reagent Alcohol	4 L x 1*	9990520

\*Ready-to-use, color-coded Shandon Excelsior packaging.

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