

# *ParaClear - An Odorless Xylene Substitute for Clearing of Histological Samples*

*Catalog Number 22463*

## Introduction

ParaClear is a clearing reagent that is odorless and presents a low hazard for routine histological processing and staining. A naphtha-petroleum derivative; it replaces xylene for clearing, deparaffinization, and staining. ParaClear will remove alcohol during the final steps of routine tissue processing and is miscible with paraffin for infiltration. It has a higher flash point than xylene reducing the flammability danger to the laboratory.

ParaClear does not harden or cause the brittleness in specimens as sometimes noted with xylene or other clearing reagents. It does not have the oily component found in d-limonene based clearants. While ParaClear does not clear fat as effectively as xylene, using xylene in the first station of clearing and completing with ParaClear can overcome this. This combination of xylene and ParaClear can also be used for special procedures.

ParaClear may require some extension of times for tissue processing when replacing xylene to assure proper alcohol clearing. Extensions should require only ten to fifteen minutes per station. We recommend testing the current processor schedule with duplicate tissue samples to determine the proper clearing times for your laboratory. If clearing is not complete with current processor schedule, perform additional test runs adding time as required for complete clearing.

**Please Note:** Many tissue processor manufacturers require xylene in the Clean Cycle to assure all paraffin is removed from the lines and valves. Check with your manufacturer for guidelines or requirements to assure all warranty components are covered and no problems occur before using this product in the Clean Cycle of your instrument.

Deparaffinization may need to be slightly extended depending of the tissue section thickness. Using automated stainers with agitation removes paraffin the fastest. Using these instruments may require only 10-15 seconds of additional deparaffinization time. Stationary racks or manual deparaffinization may require a full minute longer than the standard schedule.

ParaClear, like most xylene substitutes, can be slower in removing all traces of paraffin and the additives contained for better sections and staining. A final xylene rinse is required prior to coverslipping to assure proper adhesion of the coverslip and to maintain high intensity stain reactions.

Saturation of ParaClear with alcohols will occur over time and solutions must be changed. Areas with high humidity will see some absorption of water into ParaClear. ParaClear with absorbed water will fail to clear alcohols or paraffin from the tissue as indicated by tissue that appears soft or mushy and incompletely cleared and infiltrated. Sectioning will be difficult and sections will explode on the waterbath. To avoid these symptoms, routinely check the solutions for any color change, the appearance of water droplets on the bottom of the containers, or a turbid solution.

**Ordering Information:**

Catalog #	Description	Size
22463- 3.8	ParaClear Odorless Xylene Substitute	3.8L

**Other Products:**

08379-3.75	10% Neutral Buffered Formalin	3.75L
08379-20	10% Neutral Buffered Formalin	20L
09860-1	Reagent Alcohol (100%), histology grade	1 gallon
08389-1	Xylene, Histology Grade	1 gallon
19636-1	PolyFreeze Tissue Freezing Media for Frozen Sectioning	6 X 120mL
24198-1	Gold Standard Micro Cut 56-58°C Paraffin	1 case
24242-500	Gill's Modified Hematoxylin #1 for Cytology	500mL
24242-1000	Gill's Modified Hematoxylin #1 for Cytology	1000mL
24242-3.8	Gill's Modified Hematoxylin #1 for Cytology	3.8L
24243-500	Gill's Modified Hematoxylin #2 for Histology & Cytology	500mL
24243-1000	Gill's Modified Hematoxylin #2 for Histology & Cytology	1000mL
24244-500	Gill's Modified Hematoxylin #3 for Histology	500mL
24244- 1000	Gill's Modified Hematoxylin #3 for Histology	1000mL
24245-500	Harris Hematoxylin Mercury Free, Acidified	500mL
24245-1000	Harris Hematoxylin Mercury Free, Acidified	1000mL
09859-500	Eosin Y, 0.5% Alcoholic/Acidified	500mL
09859-1000	Eosin Y, 0.5% Alcoholic/Acidified	1000mL
09859-3.75	Eosin Y, 0.5% Alcoholic/Acidified	3.75L
17269-500	Eosin Y, 1.0% Alcoholic/Non-Acidified	500mL
17269-1000	Eosin Y, 1.0% Alcoholic/Non-Acidified	1000mL
17269-3.75	Eosin Y, 1.0% Alcoholic/Non-Acidified	3.75L
08381-120	Poly-Mount® Coverslipping Media (Permanent Mounting)	120mL
08381-940	Poly-Mount® Coverslipping Media (Permanent Mounting)	940mL
18606-20	Aqua-Poly/Mount Coverslipping Media (Non-permanent) For mounting from aqueous solution or fluorescent materials (Non-fading, aqueous)	20mL
18606-500	Aqua-Poly/Mount Coverslipping Media (Non-permanent) For mounting from aqueous solution or fluorescent materials (Non-fading, aqueous)	500mL

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Catalog #	Description	Size
22247-1	Poly-L-Lysine Coated Slides (Yellow Label Area)	1/2 gross/Box
24216-1	Tissue Tack Silane Charged Slides	1/2 gross/Box
24108-1	Tissue Marking Dye Kit, contains one 2 ounces bottle of each dye (red, green, blue, yellow and black) in a convenient wooden holder with applicators sticks	1 Kit
24109-2	Red Tissue Marking Dye	1 X 2oz
24109-8	Red Tissue Marking Dye	1 X 8oz
24110-2	Green Tissue Marking Dye	1 X 2oz
24110-8	Green Tissue Marking Dye	1 X 8oz
24111-2	Blue Tissue Marking Dye	1 X 2oz
24111-8	Blue Tissue Marking Dye	1 X 8oz
24112-2	Yellow Tissue Marking Dye	1 X 2oz
24112-8	Yellow Tissue Marking Dye	1 X 8oz
24113-2	Black Tissue Marking Dye	1 X 2oz
24113-8	Black Issue Marking Dye	1 X 8oz
18646A-1	Peel-A-Way® Disposable Embedding Molds, Square S22 22mm x 22mm square x 20mm deep	288 per case
18646B-1	Peel-A-Way® Disposable Embedding Molds, Rectangular R30 22mm wide x 30mm long x 20mm deep	288 per case
18646C-1	Peel-A-Way® Disposable Embedding Molds, Rectangular R40 22mm wide x 40mm long x 20mm deep	288 per case
18985-1	Peel-A-Way® Disposable Embedding Molds, Truncated T-8 22mm x 22mm square truncated to 8mm x 8mm square, 20mm deep	288 per case
18986-1	Peel-A-Way® Disposable Embedding Molds, Truncated T-12 22mm x 22mm square truncated to 12mm x 128mm square, 20mm deep	288 per case
18646D-1	Peel-A-Way® Mold Sampler Package (contains all sizes mentioned above)	1 pkg

**To Order:**

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In The U.S. FAX: 1-800-343-3291 • 215-343-0214

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