

Histo-Clear

- ◆Rapid Clearing without the Toxic Hazards of Xylene
- ◆Biodegradable: Natural Product with Food Grade Rating Worldwide
- ◆Compatible with Most Popular Mounting Media
- ◆Superior Results with Low Citrus Odor



Catalog number: HS-200

The use of Histo-Clear in the laboratory means no longer having to breathe xylene when preparing histological sections. Distilled from oranges, carefully purified, and stabilized, Histo-Clear is one of the safest clearing agents available.

Histo-Clear not only improves safety but also results. Histo-Clear leaves tissue less hard and brittle than xylene, facilitating the cutting of thin sections and prolonging microtome blade life. Nuclear morphology is rendered in fine detail. Histo-Clear enhances the clarity and vibrance of acidophilic stains and improves staining of Harris' Hematoxylin with a brighter Eosin background. Histo-Clear can directly substitute for xylene and yields excellent results in automated tissue processing.

Harris' Hematoxylin



- **Finest control of the ripening process**
- **Longest shelf life**
- **Fewest artifacts**
- **Reproducible vibrant staining**

The most commonly used histological stain, hematoxylin is a natural compound extracted from a species of tree found in Mexico and the West Indies. The extracted compound is oxidized to produce hematein, the active staining component of the hematoxylin stain.

The production of histological staining solutions is an art. Only a few laboratories are capable of developing a stain of reliable vibrance. At National Diagnostics we have gone one step further. Our proprietary methods achieve the finest control of the ripening process, resulting in the only commercially available Harris' Hematoxylin with a full one year shelf life.

Harris' Hematoxylin Order No. HS-400	1 liter
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Scott's Tapwater Order No. HS-404	1 liter
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Eosin Solution Order No. HS-402	1 liter
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Histo-Clear Order No. HS-200	1 liter
	1 gallon
	4 x 1 gallon
	5 gallons

Histological Grade Ethanol Order No. HS-300	1 liter
	4 liters
	20 liters

Histomount Order No. HS-103	100 mL
	4 x 100 mL
	450 mL
	4 x 450 mL

For Additional Information And Order Placement:

Toll Free: (800) 526-3867	National Diagnostics, Inc.
Georgia: (404) 699-2121	305 Patton Drive
Fax: (404) 699-2077	Atlanta, GA 30336
e-mail: info@nationaldiagnostics.com	

PROCEDURE

Note: The following protocol has given good to excellent results with a wide variety of tissue sections. It may need to be optimized for a given tissue, section thickness, etc.

1. Dewax and rehydrate slides

a) Immerse slides in the following sequence of baths:

- Histo-Clear - 10 minutes
- Histo-Clear - 10 minutes
- 100% ethanol - 2 minutes
- 95% ethanol - 2 minutes
- 50% ethanol - 2 minutes
- Water - 2 minutes

2. Stain

a) Immerse slides in Hematoxylin solution for 10-20 minutes.

b) Rinse 2 minutes in water or Scott's Tapwater substitute.

c) Differentiate with 2-5 dips in 70% ethanol containing 0.1% HCl.

d) Immerse for 2 minutes in Scott's Tapwater substitute.

e) Stain in 1% aqueous Eosin with 0.1 acetic acid for 10 minutes.

3. Dehydrate, clear and mount

a) Immerse slides in the following sequence of baths:

- 50% ethanol - 2 minutes
- 95% ethanol - 2 minutes
- 100% ethanol - 2 minutes
- Histo-Clear - 10 minutes
- Histo-Clear - 10 minutes

b) Mount coverslip with Histomount.