



# Instructions For Use

## HAE-IFU

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## Hematoxylin and Eosin Stain Kit

### Description and Principle

The Hematoxylin and Eosin Stain Kit is intended for use in histology and cytology applications. Included in this kit is a newly formulated Eosin that provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section. Our hematoxylin produces crisp, intense blue nuclei providing optimal contrast to the eosin stained cytoplasm.

Nuclei are stained by a rapid and progressive hematoxylin solution. Nuclear binding to hematoxylin is facilitated by use of aluminum to form an aluminum-hematein dye lake. Bluing reagent is applied to convert the insoluble aluminum-hematein complex which is red to an insoluble blue lake. Tissue is counterstained using an Eosin Y dye solution, resulting in differential staining of erythrocytes, collagen, and muscle.

### Expected Results

Cytoplasm:	Light Pink
Collagen:	Pink
Muscle:	Pink/Rose
Erythrocytes:	Pink/Red
Nuclei:	Blue

### Kit Contents

Kit Contents	Storage
1. Hematoxylin, Mayer's (Lillie's Modification)	18-25°C
2. Bluing Reagent	18-25°C
3. Eosin Y Solution (Modified Alcoholic)	18-25°C

### Suggested Controls (not provided)

Any well-fixed paraffin embedded or frozen tissue section.  
Cell smear.

### Uses/Limitations

For In-Vitro Diagnostic use only.

Do not use if reagents become cloudy or precipitate

Do not use past expiration date.

Use caution when handling reagents.

Non-Sterile

Intended for FFPE sections cut at 5-10µm.

This procedure has not been optimized for frozen sections.

Frozen sections may require protocol modification.

### Storage

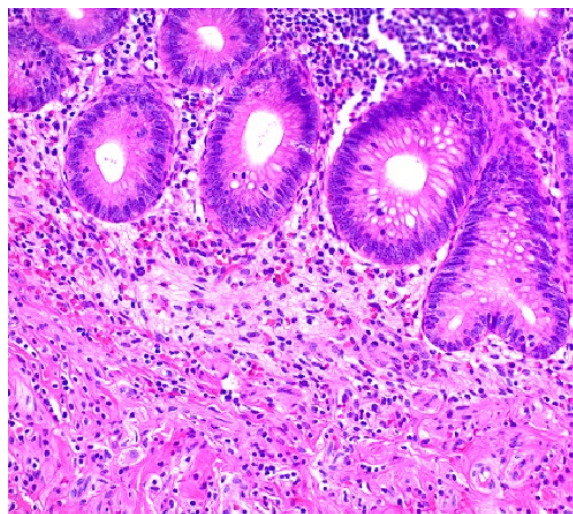
Store kit and all components at room temperature (18-25°C).

### Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

### Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply Hematoxylin, Mayer's (Lillie's Modification) for 5 minutes.
3. Rinse slide in 2 changes of distilled water to remove excess stain.
4. Apply Bluing Reagent for 10-15 seconds.



Human Colon stained with Hematoxylin and Eosin Stain Kit

5. Rinse slide in 2 changes of distilled water.
6. Dip slide in absolute alcohol and blot excess off.
7. Apply Eosin Y Solution (Modified Alcoholic) for 2-3 minutes.
8. Rinse slide using absolute alcohol.
9. Dehydrate slide in 3 changes of absolute alcohol.
10. Clear slide and mount in synthetic resin.

### References

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