ScyTek LABORATORIES INC.

Instructions For Use

HMM-IFU

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Mayer's Hematoxylin (Lillie's Modification)

Description and Principle
Mayer's Hematoxylin (Lillie's Modification) is a progressive nuclear hematoxylin stain with several histological applications. Nuclei should staining is strong, clean, crisp, and no differentiation is needed. Bluing reagent (Catalog: BRT) may be used following hematoxylin to "blue" or alter the shade of hematoxylin from a purple to blue.

Expected Results

Nuclei:	Purple
Nuclei after Bluing:	Blue
Nuclei after Eosin:	Blue to Violet

Additional Required Reagents (*Not Included)*
1. Bluing Reagent (Cat# BRT)
2. Eosin Y Solution (Modified Alcoholic) (Cat# EYB)

Suggested Controls *(not provided)*
Any well-fixed tissue.

Uses/Limitations
Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagent become cloudy.
Do not use past expiration date.
Use caution when handling reagent.
Non-Sterile.

Storage
Store 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
Counterstaining for IHC:
Dip slide in Mayer's Hematoxylin (Lillie's Modification) several times. Blue in bluing reagent for 15-30 seconds.

-OR-

Incubate in Mayer's Hematoxylin (Lillie's Modification) for 30-60 seconds. Blue in bluing reagent for 15-30 seconds.

H&E staining and standalone:
1. Stain for 3-5 minutes in Mayer's Hematoxylin (Lillie's Modification). Note: Longer incubation times provide a darker stain.

2. Blue in bluing reagent for 15-30 seconds.

3. Continue with incubation in Eosin or dehydration and clearing and mounting.

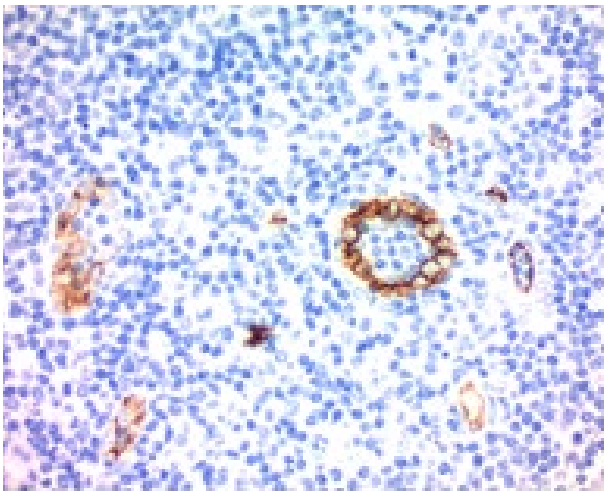

Fig 1. IHC Staining with CD34 on Human tonsil. Counterstained with Mayer's Hematoxylin (Lillie's Modification) for 30 seconds followed by bluing with Bluing Reagent.

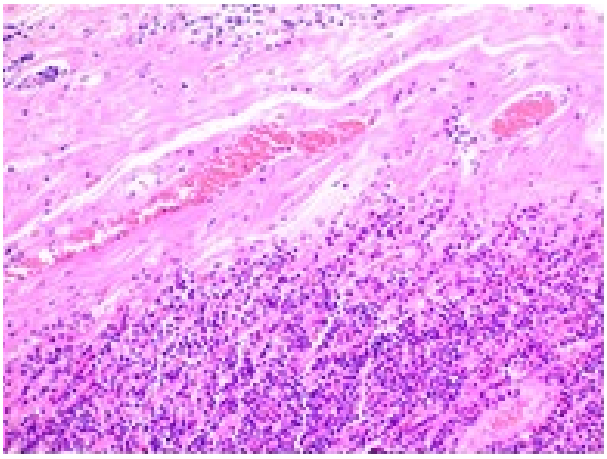

Fig 2. Hematoxylin and Eosin Staining with ScyTek's HAE-1 stain kit.

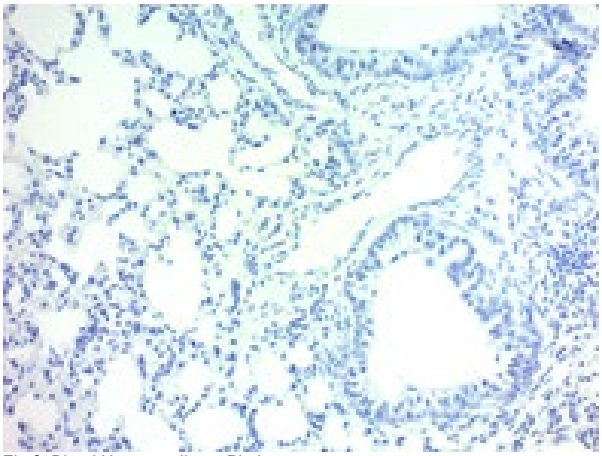

Fig 3. Blued Hematoxylin on Pig Lung.

References

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH. Page 262-264. 1980
2. Kluver, H., Barrera, E.A. A Method for the combined staining of cells and fibers in the nervous system. Journal of Neuropathology and Experimental Neurology, 1953, 12: pages 400-403.
3. Margaret M. Powers & George Clark (1955) An Evaluation of Cresyl Echt Violet Acetate as a Nissl Stain, Stain Technology, 30:2, 83-88,

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