



VitroView™ Mayer's Hematoxylin Solution

SKU: VB-3000L-1

Description

VitroView™ Mayer's Hematoxylin Solution is a premium, ready-to-use histological staining reagent optimized for both immunohistochemistry (IHC) counterstaining and routine Hematoxylin and Eosin (H&E) procedures. This chemically formulated, progressive stain precisely colors cell nuclei crisp blue without staining the cytoplasm, eliminating the need for acid alcohol differentiation.

Key Features

- **Sharp Contrast:** Delivers brilliant blue nuclear visualization against pink/red cytoplasmic counterstains.
- **Progressive Staining:** Prevents over-staining, removing the requirement for an acid-alcohol differentiation step.
- **Ready-to-Use:** Formulated for immediate application to streamline laboratory workflows.
- **Water-Based Formula:** Alcohol-free composition prevents the dissolution of alcohol-soluble chromogens (e.g., AEC).
- **Versatile Application:** Validated for frozen sections, paraffin-embedded tissue blocks, and cytological preparations.

Ideal For

- **IHC Counterstaining:** Perfect for standard nuclear visualization alongside AEC or DAB chromogens.
- **Routine H&E Staining:** High-throughput diagnostic and research histology.

Kit Contents

VB-3000L-1 VitroView™ Mayer's Hematoxylin Solution - 500 ml

Storage

Room temperature.

Protocol

H&E Stain for paraffin sections:

1. Deparaffinize in xylene I for 6 minutes and II for 6 minutes.
2. Rehydrate
 - a. Ethanol 100% (2 minutes)
 - b. Ethanol 100% (2 minutes)
 - c. Ethanol 95% (2 minutes)
 - d. Ethanol 95% (2 minutes)
 - e. Ethanol 70% (2 minutes)
3. Rinse in DI water (2 minutes).
4. Place in Mayer's Hematoxylin Solution for 5 minutes.
5. Rinse in tap water for 5 min with 3 changes. Or Bluing reagent for 30–60 seconds.

6. Place in 95% Ethanol for 1 minute (DO NOT RINSE).
7. Place in Eosin for 1 min 30sec.
8. Dehydrate with 2 changes of 95% Ethanol and 2 changes of 100% Ethanol (2 minutes per change).
9. Clear with 3 changes of xylene (5 minutes per change)
10. Mount coverslip onto glass slide with Permount or some other suitable organic mounting medium.

H&E Stain for frozen sections:

1. Frozen sections are fixed in acetone at -20 °C for 3 min or 80% Methanol at 4°C for 5 min
2. PBS 1× 10 min.
3. Rinse in DI water (2 minutes).
4. Follow steps 4-10 above.

For Immunohistochemistry (IHC) Counterstain:

Following the completion of chromogen development:

1. Rinse slides thoroughly.
2. Immerse in Mayer's Hematoxylin Solution for 30–90 seconds.
3. Rinse with water.
4. Blue nuclei.
5. Dehydrate, clear, and mount.

Counterstaining time may be adjusted depending on tissue type and desired nuclear intensity.

Note: This product is intended for research purposes only. This product is not intended for therapeutic or diagnostic use in humans or animals.

Precautions: Handle with care. Avoid contact with eyes, skin, and clothing. Do not ingest. Wear gloves.