



## STAT Aqua Hematoxylin

### *Technical Data Sheet*

**PRODUCT# IMI00977E (125ml) | IMI00992E (Liter)**

#### **INTRODUCTION**

Hematoxylin is widely used for staining of nuclei of cells. Hematein, the oxidation product of hematoxylin is a weak anionic dye that has little affinity for the nuclei by itself; however, it becomes a strong dye with a strong affinity for nuclei when combined with a metallic mordant. Hematoxylin is the dye of choice for nuclei staining and counterstaining of tissue sections and cell smears in histological and cytological staining procedures. In immunohistochemistry, hematoxylin is used for counterstaining tissue sections and cell smears immunostained with chromogens or dyes. Hematoxylin is also routinely used in routine H&E staining for identification and visualization of nuclei.

#### **PRODUCT DESCRIPTION**

**“Aqua Hematoxylin”** is a stat hematoxylin formulated for high nuclear resolution and for quick routine H&E staining and for quick counterstaining of Immunohistochemical (IHC) stains. “Aqua hematoxylin” can successfully be used for progressive nuclear staining of tissue sections and cell smears in routine H&E staining procedures.

**“Aqua hematoxylin”** is useful for counterstaining both H&E stains and IHC stains in one minute or less. This hematoxylin is applicable to all IHC stains such as DAB, AEC BCIP/NBT, Fast Red, etc. **Aqua hematoxylin** is the recommended counterstained for use with alcohol soluble IHC chromogens such as AEC and Fast Red and other alcohol soluble chromogens. Alcohol soluble IHC chromogens tend to fade when counterstained with alcohol containing hematoxylin such as Harris hematoxylin. The use of **“Aqua Hematoxylin”** eliminates the need for bluing agent and the immersion step of slides in ammonia water post staining with hematoxylin. A quick water rinse alone will turn the stains blue. This hematoxylin does not require filtration.

#### **INTENDED USE/APPLICATION**

**“Aqua hematoxylin”** is intended for nuclear staining and counterstaining of tissue sections and cell smears. It is also applicable to routine processing of H&E stains.

#### **PRODUCT FORMAT**

Working solution, no dilution or adjustments necessary.

#### **STORAGE CONDITIONS**

Room temperature storage is recommended.

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## **INSTRUCTIONS**

### **For Immunohistochemical (IHC) Counterstaining**

The following is a recommended technique for counterstaining IHC stained sections and smears. Other techniques that achieve the same basic result are equally acceptable.

1. Immerse slides in a vessel containing Aqua hematoxylin or apply by drops to achieve specimen coverage.
2. Allow to stand for **10 seconds to 1 minute**.
3. Rinse with tap water until water runs clear and mount. No bluing agent is required.

### **For Routine H&E Staining (Progressive method)**

“Aqua hematoxylin” can be successfully used for routine H&E staining.

1. Immerse slides in a vessel containing “**Aqua Hematoxylin**” for **2 minutes**.
2. Rinse in tap water until water runs clear and mount.

If large baskets of slides are processed, add 20 seconds each day until 20 minutes of staining time is reached, then change to fresh solution.

## **NOTES:**

No bluing agent is required

No filtration is required