

AQUA Hematoxylin

Technical Data Sheet

Reagent Category

Hematoxylin for staining & counterstaining

Specific Reagents Supplied

125 ml of Aqua hematoxylin

1 liter of Aqua Hematoxylin

PRODUCT # NB305 (125 ml), NB305A (1 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 (IHC) and immunocytochemistry (ICC), 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 quick counterstaining of IHC and ICC stains. “Aqua hematoxylin” can also be used for progressive nuclear staining of tissue sections and cell smears in routine H&E staining procedures.

“**Aqua hematoxylin**” is useful for counterstaining of H&E stains, IHC stains and ICC stains in one minute or less. This hematoxylin is applicable to all IHC and ICC stains such as DAB, AEC, Fast Red, permanent Red and other substrate/chromogens. **Aqua hematoxylin** is the recommended counterstain for use with alcohol soluble IHC chromogens such as AEC, Fast Red and other alcohol soluble chromogens. Alcohol soluble IHC chromogens fade when counterstained with alcohol containing hematoxylin such as Harris hematoxylin.

The use of “**Aqua Hematoxylin**” eliminates the need for bluing agent; The immersion step of slides in ammonia water post staining with hematoxylin is not required when staining with INNOVEX Aqua hematoxylin. Tap water rinse alone will render Aqua hematoxylin stain blue. Aqua hematoxylin is very fluid, does not contain solids and does not require filtration.

INTENDED USE/APPLICATION

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

PRODUCT FORMAT

Working solution; NO dilution or adjustments necessary; NO filtration required.

STORAGE CONDITION

Room temperature storage is recommended.

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INSTRUCTIONS

For IHC and ICC Counterstaining

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

Post staining with substrate/ chromogen and the subsequent water rinse:

1. Immerse slides in a vessel containing Aqua hematoxylin OR apply by drops to achieve specimen coverage.
2. Allow to stand for **20-seconds to 1-minute** (depending on intensity desired).
3. Rinse with tap water until water runs clear, **NO ammonia water or bluing agent is required.**
4. Mount slides with coverslips.

For Routine H&E Staining (Progressive method)

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

For paraffin sections; Deparaffinize slides and rinse slides with water. For frozen sections; Cut sections, fix and rinse well with water.

1. Immerse slides in a vessel containing “**Aqua Hematoxylin**” OR apply by drops to achieve specimen coverage and allow to stand for **1-2 minutes** (depending on intensity desired).
2. Rinse with tap water until water runs clear. Innovex hematoxylin” does NOT require post treatment of slides with Ammonia water, slides stained with Innovex Aqua hematoxylin” turn blue with tap water rinse.
3. Continue with Eosin staining as usual protocol and rinse with water.
4. Mount with coverslips.

NOTES:

No bluing agent or ammonia water treatment is required.

No filtration of Aqua hematoxylin is required.

FOR LABORATORY USE

For additional technical support, contact INNOVEX Biosciences

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