

## MAYERS HAEMATOXYLIN

Product Code PRC/R/42

Pack sizes 1 litre, 2.5 litres, 5 litres

Manufactured by Pioneer Research Chemicals Ltd.

**Haematoxylin solution for nuclear staining in Haematoxylin and Eosin staining (H&E), in the Celestine Blue-Haemalum staining sequence and as a nuclear counterstain after immunohistochemistry or cytochemistry.**

### Storage:

Store the staining solution at +15°C to +25°C. Store in the dark. Keep upright.

### Shelf Life:

Shelf life unopened = 1 year from date of manufacture.

Shelf life opened = 2 months.

The solution must be used by the expiry date.

The bottle must be kept closed.

### Warnings and precautions:

Observe the hazard classifications on the label. Safety data sheet available on request. Follow laboratory Health & Safety guidelines for COSHH and biological risks.

### Composition:

Haematoxylin 0.09% w/w.

Aluminium Potassium Sulphate 4.54% w/w

Plus other ingredients which may influence results.

### Sample Material:

Paraffin sections, cryo sections.

### Procedure:

For professional use only. Staining must be carried out by trained personnel. Staining solutions should be filtered before use. Dilution of the stain is not needed and may reduce sample results.

### Suggested staining protocols:

#### Haematoxylin and Eosin (progressive):

1. Deparaffinize to water or fix and hydrate frozen sections.
2. Stain in Mayers Haematoxylin for 5-15 minutes.
3. Rinse slides in running tap water.
5. Blue in Scott's Tap Water Substitute.
6. Rinse in running tap water.
7. Counterstain in aqueous eosin solution for 30 seconds - 3 minutes.
8. Dehydrate, clear and mount.

#### Nuclear counterstain for special stains:

1. Complete individual staining procedure
2. Rinse in de-ionised water
3. Stain in Mayers Haematoxylin for 1-5 minutes.
4. Rinse slides in running tap water.
5. Blue in Scott's Tap Water Substitute.
6. Rinse in running tap water.
7. Dehydrate, clear and mount.

#### Celestine Blue-Mayers Haematoxylin staining

1. De-wax sections and take to water
2. Stain in Celestine Blue for 5 minutes
3. Rinse in water
4. Stain in Mayers Haematoxylin for 5 minutes
5. Wash well in running tap water
6. Differentiate depending on the method in use

### Results:

Nuclear chromatin	blue
Nucleoli	visible
Cytoplasm	pink
Red blood cells	red/pink

If a staining machine is used, follow the instructions provided by the equipment manufacturer.

### Notes:

All times are given as a guide.

Personal preference may influence staining protocol.

Staining solutions may lose strength with age/use and should be replaced regularly.

Do not add new stock to depleted solutions.

### Instructions for disposal:

Used solutions must be disposed of as special waste in accordance with local guidelines.