Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# **DATASHEET**

Modified Mayer's Hematoxylin

## **Product overview**

Name Modified Mayer's Hematoxylin

Cat No HB6189

Alternative names Hematoxylin Solution (Mayer's, Modified)

**Biological description** Hematoxylin is a nuclear stain with a deep blue-purple color. It is used as a counterstain for

immunohistochemical or hybridization procedures that use colorimetric substrates (e.g. alkaline

phosphatase or peroxidase.)

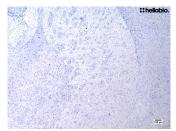
It is a component of one of the most widely used histology stains: the H&E stain (Hematoxylin and

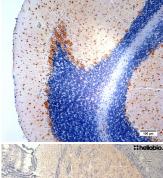
Eosin stain).

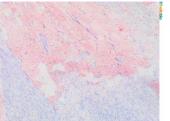
Biological action Dyes & stains

**Description** Nuclear stain. Component of H&E stain.

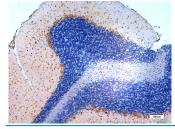
## **Images**













## **Biological Data**

**Application notes** 

Hematoxylin staining protocol for paraffin embedded sections

- 1. Incubate paraffin embedded sections in histoclear for 20 minutes
- 2. Incubate slides in 100% ethanol for 3 minutes
- 3. Incubate slides in 90% ethanol for 3 minutes
- 4. Incubate slides in 70% ethanol for 3 minutes
- 5. Rinse in tap water
- 6. Incubate in hematoxylin solution for 5 minutes
- 7. Rinse in running tap water for 5 minutes
- 8. Dip in acid alcohol (8-12 fast dips)
  - 1. Recipe: 70% ethanol with 25mM HCl
- 9. Incubate slides in tap water for 2 minutes

10. Incubate slides in Scott's water for 2 minutes 1. Recipe: 10g/l MgSO<sub>4</sub>, 0.66g/l NaHCO<sub>3</sub>

11. Dip and swish in 70% ethanol

12. Dip and swish in 90% ethanol

13. Incubate slides in 100% ethanol for 3 minutes

14. Incubate slides in three changes of xylene for 1 minute per incubation

1. Carry out in a fume hood as xylene is extremely toxic

15. Mount with DPX and leave to dry in a fume hood overnight before imaging

## **Solubility & Handling**

Storage instructions Room temperature

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

## References

**Important** 

## Tissue Processing and Hematoxylin and Eosin Staining

Feldman and Wolfe (2014) Methods Mol Biol 1180 **PubMedID**25015141

#### The Wonderful Colors of the Hematoxylin-Eosin Stain in Diagnostic Surgical Pathology

CHan (2014) Int J Surg Pathol 22(1)

PubMedID 24406626

## Hematoxylin and Eosin Staining of Tissue and Cell Sections

Fischer et al (2008) CSH Protoc 4986

PubMedID 21356829