



# MMPC Hematoxylin and Eosin

Version: 1  
 Modified from: H &E protocol, UC Davis Clinical Pathology lab  
 Edited by: Dr. Rutkowsky, UC Davis

- [Summary](#)
- [Reagents and Materials](#)
- [Protocol](#)

**Summary:** Staining tissues on a slide with Heatoxylin and Eosin.

## Reagents and Materials:

Reagent/Material	Vendor	Stock Number
xylene		
ethanol		
Hematoxylin		
Clarifier		
Bluing Reagent		
Eosin		
coverslip	Corning	2935-245

## Protocol:

**WARNING:**  
*Formalin is, toxic, flammable and considered a carcinogen*

*Xylene, ethanol and methanol are all flammable and should be used in fume hood away from open flames or sparks*

*All blood components and biological materials should be handled as potentially hazardous. Follow universal precautions established by CDC when handling and disposing of infectious agents.*

1. Heat slide to 37°C for 20 min
2. Move through the following solutions sequentially for the noted amount of time

Reagent/concentration	Time
Xylene 100%	3 min
Xylene 100%	3 min

Xylene 100%	3 min
Ethanol 100%	1 min
Ethanol 100%	1 min
Ethanol 100%	1 min
Ethanol 95%	1 min
Running Water	2 min
Hematoxylin	3 min 45 sec
Running Water	15 sec
Clarifier	1 min
Running Water	1 min
Bluing Reagent	1 min
Running Water	1 min
Ethanol 95%	30sec
Eosin	1 min
Ethanol 100%	1 min
Ethanol 100%	1 min 30 sec
Ethanol 100%	1 min 30 sec
Xylene 100%	2 min
Xylene 100%	2 min
Xylene 100%	2 min

3. Mount tissue with a coverslip

## **Reagent Preparation: N/A**