Hematoxylin and Eosin Stain

FOR PARAFFIN-EMBEDDED TISSUE SECTIONS

Stock Solutions:

1% stock Eosin		**Eosin Working Solution**	
Eosin Y 1gm		Stock Eosin	45ml
80% EtOH	100ml	80% EtOH	135ml
		Glacial Acetic Acid	900ul

0.1% Acid Alcohol Solution		**Harris Hematoxylin**
ddH_2O	500ml	Nonacidified
100% EtOH	500ml	Shandon
HCl	1ml	Product # 6765001

1. Deparaffinize slides and hydrate to ddH_2O: (Xylenes 2x5min, 100% EtOH 2x1min, 95% EtOH, 80% EtOH, 70% EtOH, ddH_2O 1min each)
2. Filter undiluted Harris Hematoxylin and Eosin (Whatman #4 filter paper)
3. Immerse sections in filter Harris Hematoxylin for 5min
4. Rinse in 2 changes of ddH_2O
5. Differentiate in 0.1% acid alcohol solution: (EtOH fixed tissue for about 2sec) (NBF fixed tissue for about 4sec)
6. Rinse in tap H_2O for 10-15min or until sections turn bright blue
7. Immerse in Eosin for 1min
8. Briefly rinse in tap H_2O
9. Dehydrate in 95% EtOH 2x30sec, 100% EtOH 2x1min, Xylene 2x5min
10. Coverslip with Cytoseal

Results: Nuclei stained blue.
Cytoplasm stained various shades of pink, identifying different morphologic tissue components.