



H&E Stain Kit

General Information

The BBC Histo-Perfect™ H&E Staining System is designed to produce the best of H&E staining possible. All components of the stain line are of the highest quality to ensure exact consistency of staining from day to day. H&E stains are brilliant and transparent, supporting the quality of interpretive diagnostics. Achieve the highest quality staining possible with the BBC Histo-Perfect™ H&E Staining System.

For the technician Histo-Perfect™ Staining produces consistent, precise results from batch to batch and day to day. It offers rapid staining time to support rush diagnosis. The dehydration, differentiation and clearing of sections are rapid, precise and complete.

For the pathologist Histo-Perfect™ Staining produces brilliant stains of nuclei and cytoplasm of cells. This procedure eliminates background staining and produces excellent staining of small and large sections, particularly skin and GYN tissues. It also produces highly consistent stains from day to day and produces no mucin stainin.

Packaging

Product	Catalog #	Volume
H&E Stain Kit, 500mL	3490	
Includes: Harris Hematoxylin, 1 pint Special Eosin II, 1 pint Acid Wash Histo, 1 pint Blueing Solution Histo, 1 pint S2-Histo, 2 quarts		
H&E Stain Kit, 1 Gallon	3500	
Includes: Harris Hematoxylin, 1 gallon Special Eosin II, 1 gallon Acid Wash Histo, 1 gallon Blueing Solution Histo, 1 gallon S2-Histo, 4 gallons		

Fixation Procedure

This procedure is compatible with all primary and secondary fixatives. For simplicity, we will describe the fixation procedure for 10% Neutral Buffered Formalin.

10% Neutral Buffered Formalin is a non-coagulative fixative. It is intended to be used as the standard fixative in the histology laboratory. The buffering capacity of our 10% Neutral Buffered Formalin enhances staining by H & E and immunohistochemistry.

1. The biopsies or tissues should be added directly to the 10% Neutral Buffered Formalin. No other dilution or addition of other agents is necessary before use.

2. Small biopsies, such as bone marrow biopsies, should be fixed at least 3 hours prior to processing. Large tissues, such as tissue blocks from lymph nodes or spleen or breast or colon, are best fixed 10-12 hours, although fixation for 4-6 hours is often sufficient. Over-fixation is not a problem; however, tissues should generally not be fixed longer than one to two weeks.
3. No washing of tissues after fixation is necessary.
4. The fixed tissues should be processed by the standard processing schedules that may vary from one hour to 12 hours. Standard recommended BBC tissue processing schedules are available on request.
5. The schedule for staining tissues fixed 10% Neutral Buffered Formalin is the same standard schedule published in standard texts of histology. Our suggested schedule follows.
6. Disposal of 10% Neutral Buffered Formalin should be the same as that used for fixatives containing formaldehyde. Consult your local wastewater disposal authority for specific instructions.

Staining Procedure

BBC RECOMMENDED AUTOMATED AND MANUAL HISTOLOGY STAINING PROCEDURE FOR HARRIS HEMATOXYLIN AND EOSIN

*Initially deparaffinize tissue sections with BBC S1™ or Xylene

Step *	Solution	Time
1.	100% Alcohol.....	20 seconds
2.	100% Alcohol.....	20 seconds
3.	95% Alcohol.....	20 seconds
4.	95% Alcohol.....	20 seconds
5.	70% Alcohol.....	20 seconds
6.	Running H ₂ O Wash	30 seconds
7.	BBC Harris Hematoxylin.....	4-5 minutes
8.	Running H ₂ O Wash	1 minute
9.	BBC Acid Wash•Histo™	1 minute
	or BBC Acid Alcohol•Histo™	2-3 seconds
10.	Running H ₂ O Wash	1 minute
11.	BBC Blueing Solution•Histo™	15 seconds
12.	Running H ₂ O Wash	1 minute
13.	70% Alcohol.....	30 seconds
14.	BBC Special Eosin I™ or II™, or Eosin Y, or Eosin Y with Phloxine B	1 minute
15.	BBC S2•Histo™	20 seconds
17.	BBC S2•Histo™	20 seconds
18.	BBC S2•Histo™	20 seconds
19.	BBC S2•Histo™	20 seconds
20.	BBC S2•Histo™	20 seconds
21.	BBC S3•Histo™ or Xylene.....	20 seconds
22.	BBC S3•Histo™ or Xylene.....	30 seconds
23.	BBC S3•Histo™ or Xylene.....	30 seconds
24.	Mount and coverslip with Optic Mount I™ or an appropriate mounting medium.	

Note: Each of these reagents can be intermixed and used with other staining sequences and other manufacturer's reagents.