



Special Eosins I™ and II™

Catalog # 3700

Intended Use

Special Eosin Counterstains are particularly formulated for staining of specialized tissues. They produce enhanced staining of non-nuclear cellular components, and they improve differentiation by subsequent alcohols in the staining sequence. These eosin counterstains are especially formulated for tissues from skin, gynecological and gastrointestinal tracts.

General Information

BBC offers a variety of Eosin Y Counterstains for use in the Histology Laboratory. These Eosins are available either alcohol or aqueous based. They are also available with or without Phloxine B. The aqueous-based eosins are buffered to an acidic pH. The alcoholic eosins have the appropriate amount of acid for proper counterstaining. These eosins produce brilliant counterstaining with excellent differentiation of cell cytoplasm and other non-nuclear tissue components. Special Eosin I™ and II™ are formulated to produce the optimum staining of non-nuclear tissues. These eosins produce a four color counterstaining spectrum of brilliant colors. Erythrocytes are red; smooth muscle is dull pink; connective tissues are orange-pink; and cytoplasm of cells varies from pink to a "metachromatic" purplish pink. These eosins are particularly attractive as counterstains for tissues from skin, gynecological and gastrointestinal tracts. They also produce ideal staining of non-nuclear tissues when used as counterstains for tissues fixed in special fixatives other than 10% neutral buffered formalin. Special Eosin I™ produces slightly redder staining of erythrocytes, and smooth muscle, and cytoplasmic granules than does Special Eosin II™.

Packaging

Product	Catalog #	Volume
Special Eosin I™	3700	1 pt
	3710	1 qt
	3720	1 gal
Special Eosin II™	3730	1 pt
	3740	1 qt
	3750	1 gal

Fixation Procedure

Special Eosins I™ and II™ are 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	3-5 minutes
8.	Running H ₂ O Wash	1 minute
9.	BBC Acid Wash•Histo™	1 minute
	or BBC Acid Alcohol•Histo™	2-3 dips
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 w/ Phloxine B.....	45 seconds
15.	BBC S2•Histo™	20 seconds
16.	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 S3™ or Xylene.....	20 seconds
21.	BBC S3™ or Xylene.....	30 seconds
22.	BBC S3™ or Xylene.....	30 seconds
23.	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.