



Vet Eosin™

Intended Use

Vet Eosin™ is particularly formulated for staining of veterinary tissues. It produces enhanced staining of non-nuclear cellular components, and it improves differentiation by subsequent alcohols in the staining sequence.

General Information

BBC offers Vet Eosin™ as a counter stain for hematoxylin used on veterinary tissues. This eosin has the appropriate amount of acid for proper counterstaining. It produces brilliant counterstaining with excellent differentiation of cell cytoplasm and other non-nuclear tissue components. Vet Eosin™ is formulated to produce the optimum staining of non-nuclear tissues. It produces 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. This eosin is particularly attractive as a counter stain for tissues from skin, gynecological and gastrointestinal tracts. It also produces ideal staining of non-nuclear tissues when used as a counter stain for tissues fixed in special fixatives other than 10% neutral buffered formalin.

Packaging

Product	Catalog #	Volume
Vet Eosin™	3685	1 pt
	3690	1 qt
	3695	1 gal

Fixation Procedure

Vet Eosin™ 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 VET HEMATOXYLIN™ AND VET 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.