



# Skin Hematoxylin™

## Intended Use

Skin Hematoxylin™ is specially formulated for skin specimens. Skin Hematoxylin™ exceptionally stains epidermis and dermis with precision and clarity.

## General Information

BBC is pleased to provide an advanced hematoxylin for use in skin histology laboratories. Our Skin Hematoxylin™ is specifically prepared to produce optimum staining in rapid time. Skin Hematoxylin™ is manufactured according to strict quality control and a formulation to achieve superior performance and results.

Skin Hematoxylin™ is the hematoxylin we recommend for routine regressive hematoxylin and eosin staining in dermatopathology. Hematoxylin is a basic dye (hematein-aluminum complex), and ours produces magnificently stained tissue sections. It has the optimum of oxidation, the proper pH, the ideal amount of special added differentiators, and the correct amount of aluminum for a long shelf life. It is quality controlled to be at optimum staining power when shipped to you.

Skin Hematoxylin™ produces precise nuclear staining showing crisp nuclear membranes and nucleoplasm, exact staining of nucleoli, and just the right amount of staining of cytoplasmic carboxyl and sulfate groups to promote excellent differentiation of eosin as a counterstain.

The epidermis shows crisp nuclear staining, and parakeratotic and hyperkeratotic squamous cells demonstrate the proper blend of basophilia and eosinophilia. The nuclei of neoplastic keratinocytes in squamous carcinoma and basal cell carcinoma are crisply stained. Tissue mucin surrounding basal cell carcinoma and that found in connective tissue disorders in the dermis are very lightly and appropriately stained. For the optimum histologic results in derpatopathology, we suggest using our H&E staining sequence and Skin Eosin™. We are pleased to offer Skin Hematoxylin™, and will enjoy working with you to achieve excellent histologic staining in dermatopathology.

## Packaging

Catalog #	Volume
3551	1 pt
3553	1 qt
3555	1 gal

## Fixation Procedure

Skin Hematoxylin™ is used for nuclear staining following a variety of fixatives. The most common fixative used is 10% neutral buffered formalin. Consequently, we will give the fixation procedure of 10% NBF, although any fixative may be used.

10% Neutral Buffered Formalin is a non-coagulative additive 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 form 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 form 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.

## Staining Procedure

BBC RECOMMENDED AUTOMATED AND MANUAL HISTOLOGY STAINING PROCEDURE FOR SKIN HEMATOXYLIN™ AND SKIN 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 <sub>2</sub> O Wash.....	30 seconds
7.	BBC Harris Hematoxylin .....	4-5 minutes
8.	Running H <sub>2</sub> O Wash.....	1 minute
9.	BBC Acid Wash•Histo™ .....	1 minute
	or BBC Acid Alcohol•Histo™ .....	2-3 seconds
10.	Running H <sub>2</sub> O Wash.....	1 minute
11.	BBC Blueing Solution•Histo™ .....	15 seconds
12.	Running H <sub>2</sub> 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.