



BoMar Aspirate-Fix™

Intended Use

BoMar Aspirate-Fix™ is a fixative used as the initial fixative for bone marrow aspirate spicules. This fixative allows the marrow spicules later to be filtered from loose erythrocytes and post fixed in B-Plus™.

General Information

BoMar Aspirate-Fix™ is a fixative designed as a primary fixative for bone marrow aspirate to be embedded and sectioned. It is a non-coagulative fixative that precisely preserves cytoplasmic granules and nuclear components. Following filtering out of loose erythrocytes and post fixing in B-Plus™, cytoplasmic granules and nuclear structures are ideally fixed for brilliant staining by H & E. Granules of eosinophils are bright, nuclear chromatin is distinct, and nucleoli are precise.

Packaging

Catalog #	Volume
4985	1 qt
5000	1 gal

Fixation Procedure

1. Immediately following aspiration at the bedside, place about 5mL of bone marrow in a watch glass or plastic tube vessel containing 2mL of BoMar AntiCoag™. Quickly mix thoroughly to prevent coagulation.
2. Bone marrow aspirate smears can be made immediately, or the anti-coagulated aspirate specimen can promptly be sent to the laboratory for smear preparation.
3. Fixation of bone marrow aspirate spicules is a 2 stage process. The spicules are initially fixed in BoMar Aspirate-Fix™; following filtration, they are later post fixed in B-Plus™. Following preparation of marrow smears to be air dried, the remaining marrow spicules and blood should be placed in BoMar Aspirate-Fix™ for primary fixation. If the remaining spicules are in a watch glass, they can be poured and then forced into the fixative with the aid of a rubber policeman or similar device. If the spicules are in a plastic tube or container, they can be poured into a small container of BoMar Aspirate-Fix™ for primary fixation. If a bone core biopsy has also been obtained, it should be placed in B-Plus™ fixative after making "roll preps" to be air dried.
4. The marrow spicules in BoMar Aspirate-Fix™ (and the bone marrow biopsy in B-Plus™) are transported to the laboratory.
5. Alternatively, the bone marrow spicules may be left in BoMar Anti-Coag™ and transported to the laboratory prior to making smears. Upon arrival there, the marrow aspirate smears can be

made, and the excess spicules can then be placed in BoMar Aspirate-Fix™.

6. After the marrow spicules have been placed in BoMar Aspirate-Fix™ for primary fixation and transported to the laboratory, they can be concentrated prior to post fixation in B-Plus™.
7. Concentration of bone marrow spicules:
 - a. Make a funnel out of lens paper.
 - b. Place the lens paper funnel into a plastic or glass funnel.
 - c. Pour the marrow spicules in BoMar Aspirate-Fix™ into the lens paper funnel; using extra BoMar Aspirate-Fix™ wash all spicules into the funnel.
8. Enclose the spicules by folding the lens paper; place the enclosed spicules in B-Plus™ for post fixation for at least one hour.
9. The specimen is then ready for tissue processing.

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.