



Gill's Hematoxylin 1

Intended Use

Gill's Hematoxylin 1 is used primarily for cytology; although it can be used for histology specimens if employed with increased staining times.

General Information

Gill's Hematoxylin 1 is usually used for cytology, although Gill's Hematoxylin 1 and 2 can be used for Cytology or Histology applications. Each of these can be used with progressive or regressive techniques. All BBC Hematoxylin formulations produce rapid and distinctive nuclear staining and all have been ripened to their peak of staining prior to shipping. Gill's Hematoxylin 1 produces precise nuclear staining showing crisp nuclear membranes and nucleoplasm, exact staining of nucleoli, and minimum staining of cytoplasm and mucin. It has the optimum oxidation, the proper pH, the ideal amount of special added differentiators, and the correct amount of aluminum for a long shelf life. When used with BBC Cytology Counterstains, such as EA-50 or EA-65, it produces perfection in translucent cytoplasm and distinct nuclei.

Packaging

Catalog #	Volume
4500	1 pt
4510	1 qt
4520	1 gal

Fixation Procedure

Pap-Fix™ or FNA-Fix™ is the fixative recommended for all cytology cell spreads, including monolayers, and Cyto-Fluid Fix™ is recommended for cytospin preparations. 95% ethanol can also be used. Pap-Fix™ is a specially formulated fixative that produces improved fixation of Pap smears and cell spreads. It combines coagulant fixation of traditional alcohol fixation with other enhanced fixation to produce better nuclear and cytoplasmic fixation. This results in better nuclear fixation of columnar and squamous cells and produces crisp, distinct cell membranes and nucleochromatin patterns. EA-50 or EA-65 stains give brighter and clearer staining. This is the choice fixative for routine fixation of Pap smears and cell spreads. FNA-Fix™ is used primarily for FNA preparations.

* If using Rapid Pap Stain

Staining Procedure

BBC RECOMMENDED AUTOMATED AND MANUAL PAPANICOLAOU STAINING PROCEDURE FOR GYN CYTOLOGIES (PROGRESSIVE HEMATOXYLIN STAINING)

Step**	Solution	Time
1.	95% Alcohol.....	30 seconds
2.	Running H ₂ O.....	40 seconds
3.	BBC Gill's 1 Hematoxylin.....	2 minutes
	or BBC Gill's 2 Hematoxylin	1 minute
	or BBC Cyto-Hematoxylin™	1 minute
4.	Running H ₂ O.....	1 minute
5.	BBC Blueing Solution•Cyto™	1 minute
6.	Running H ₂ O.....	1 minute
7.	95% Alcohol.....	30 seconds
8.	Running H ₂ O.....	1 minute
	* Rapid Pap Stain.....	1 minute
	-then skip to step 13	
9.	OG-6	1 minute
10.	95% Alcohol	50 seconds
11.	95% Alcohol.....	50 seconds
12.	BBC EA-50 (Gill's Modified).....	7 minutes
	or EA-65 (Gill's Modified)	7 minutes
	or EA-50 (Papanicolaou).....	3 minutes
	or EA-65 (Papanicolaou).....	3 minutes
13.	95% Alcohol.....	25 seconds
14.	95% Alcohol.....	25 seconds
15.	BBC S2•Cyto™	25 seconds
16.	BBC S2•Cyto™	25 seconds
17.	BBC S3™ or Xylene	30 seconds
18.	BBC S3™ or Xylene	30 seconds
19.	BBC S3™ or Xylene	30 seconds

*Prior to staining, Gyn cytology preparations fixed with a fixative containing Carbowax (polyethylene glycol 1450) should be placed for 10 minutes in 95% alcohol to remove the PEG.

BBC RECOMMENDED AUTOMATED AND MANUAL PAPANICOLAOU STAINING PROCEDURE FOR GYN CYTOLOGIES (REGRESSIVE HEMATOXYLIN STAINING)

Step**	Solution	Time
1.	95% Alcohol.....	30 seconds
2.	Running H ₂ O.....	40 seconds
3.	BBC Gill's 1 Hematoxylin.....	4 minutes
	or BBC Gill's 2 Hematoxylin	2 minutes
	or BBC Cyto-Hematoxylin™	3 minutes
4.	Running H ₂ O.....	1 minute
5.	BBC Acid Wash•Cyto™	45 seconds
6.	Running H ₂ O.....	1 minute
7.	BBC Blueing Solution•Cyto™	1 minute

- 8. Running H₂O..... 1 minute
- 9. 95% Alcohol..... 30 seconds
- * Rapid Pap Stain..... 1 minute
- then skip to step 14
- 10. OG-6..... 1 minute
- 11. 95% Alcohol..... 50 seconds
- 12. 95% Alcohol..... 50 seconds

- 17. BBC S2•Cyto™..... 25 seconds
- 18. BBC S3™ or Xylene 30 seconds
- 19. BBC S3™ or Xylene 30 seconds
- 20. BBC S3™ or Xylene 30 seconds

** Prior to staining, non-Gyn cytology preparations fixed with a fixative containing Carbowax (polyethylene glycol 1450) should be placed for 10 minutes in 95% alcohol to remove the PEG.

Staining Procedure -Continued

- 13. BBC EA-50 (Gill's Modified)..... 7 minutes
- or EA-65 (Gill's Modified) 7 minutes
- or EA-50 (Papanicolaou)..... 3 minutes
- or EA-65 (Papanicolaou)..... 3 minutes
- 14. 95% Alcohol..... 25 seconds
- 15. 95% Alcohol..... 25 seconds
- 16. BBC S2•Cyto™..... 25 seconds
- 17. BBC S2•Cyto™..... 25 seconds
- 18. BBC S3™ or Xylene 30 seconds
- 19. BBC S3™ or Xylene 30 seconds
- 20. BBC S3™ or Xylene 30 seconds

* Prior to staining, Gyn cytology preparations fixed with a fixative containing Carbowax (polyethylene glycol 1450) should be placed for 10 minutes in 95% alcohol to remove the PEG.

BBC RECOMMENDED AUTOMATED AND MANUAL PAPANICOLAOU STAINING PROCEDURE FOR NON-GYN CYTOLOGIES (REGRESSIVE HEMATOXYLIN STAINING)

<u>Step**</u>	<u>Solution</u>	<u>Time</u>
1.	95% Alcohol.....	30 seconds
2.	Running H ₂ O.....	40 seconds
3.	BBC Gill's 1 Hematoxylin.....	4 minutes
	or BBC Gill's 2 Hematoxylin	2 minutes
	or BBC Cyto•Hematoxylin™	3 minutes
4.	Running H ₂ O.....	1 minute
5.	BBC Acid Wash•Cyto™	45 seconds
6.	Running H ₂ O.....	1 minute
7.	BBC Blueing Solution•Cyto™	30 seconds
8.	Running H ₂ O.....	1 minute
9.	95% Alcohol.....	30 seconds
	* Rapid Pap Stain.....	1 minute
	-then skip to step 14	
10.	OG-6.....	1 minute
11.	95% Alcohol	50 seconds
12.	95% Alcohol.....	50 seconds
13.	BBC EA-50 (Gill's Modified).....	7 minutes
	or EA-65 (Gill's Modified)	7 minutes
	or EA-50 (Papanicolaou).....	3 minutes
	or EA-65 (Papanicolaou).....	3 minutes
14.	95% Alcohol.....	25 seconds
15.	95% Alcohol.....	25 seconds
16.	BBC S2•Cyto™.....	25 seconds