

A-110 GIEMSA FOR H-PYLORI AND MAST CELLS (microwave)

Fixation: 10% Buffered Neutral Formalin (F-113).

Technique: Cut paraffin section at 3 microns.

Procedure:

1. Deparaffinize and hydrate to distilled water.
2. Place promptly in Methanol (A-110-1), for 2 minutes.
3. Preheat Working Geimsa solution in microwave on high for 45 seconds. Filter the hot solution into a coplin jar containing the slides. Stain for 2 minutes.

To prepare working solution mix:

7.0 ml Geimsa Stock (A-110-2)

38 ml Distilled water

5 ml Methanol (A-110-1)

Prepare fresh- do not reuse!!

4. Rinse quickly in distilled water
5. Dip one slide at a time in Acetic Acid, 1% (A-110-3).
6. Rinse quickly in distilled water.
7. Rinse in 3 changes of Methanol (A-110-1).
8. Clear in Xylene (C-120) and mount.

Stain Results:

Red Blood Cells	Pink
Nuclei	Blue
H-Pylori, fungi and other bacteria	Blue
Mast Cells	Purple
Rickettsia	Purple

NOTE: The use of methanol to dehydrate stained sections prior to mounting seems to provide lighter staining of surrounding tissue, offering better contrast with stained organisms.

References:

1. *Helicobacter pylori* in peptic ulcer disease, NIH Consensus Statement Online, January 1994, 12 (1): 1:23.
2. Luna I AFIP 3rd ed. McGraw Hill, 236.
3. Fail, Rena, AS, HT (ASCP) Medical University of South Carolina, Histologic. Vol. XXXIV, No. 2, Nov. 2001. P 32.