

RAPID STAINING METHOD FOR HELICOBACTER PYLORI (ALCIAN YELLOW)

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of H. Pylori in gastric biopsies.
PRINCIPLE:	Periodic Acid oxidizes the mucin creating sites for the Alcian Yellow to bind. Toluidine Blue then stains the organisms and tissue but cannot remove the Alcian Yellow from the mucin.
CONTROL:	Gastric biopsy known positive for H. Pylori <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs033.</i>
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 4-5 micrometers
SOLUTIONS:	1. Periodic Acid 1% Aqueous Item# s1861 2. Sodium Metabisulfite 5% Item# s2422 3. Alcian Yellow 1% (filter before use) Item# s2423 4. Toluidine Blue 1% Aqueous Item# s286 5. Sodium Hydroxide 3% Aqueous Item# s1920 <u>Toluidine Blue Working Solution:</u> Prepare fresh. Toluidine Blue 1% Aqueous 0.5 mL Distilled Water 50.0 mL Sodium Hydroxide 3 2 drops <i>Solutions can be purchased separately from Poly Scientific.</i>
NOTES:	
REFERENCE:	Leung, J.K., Gibbon, K.J., Vartanian, R.K. "Rapid Staining Method - for H. Pylori in Gastric Biopsies". <u>J. Histotech.</u> 1996; Vol 19, No 2, p. 131.

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water.
2. Place sections in Periodic Acid 1% for 1 minute.
3. Rinse well in distilled water.
4. Place slides in Sodium Metabisulfite 5% for 5 minutes.
5. Rinse slides in distilled water for 2 minutes.
6. Place slides in Alcian Yellow 1% for 5 minutes.
7. Rinse well in distilled water.
8. Stain in Toluidine Blue Working Solution for 3 minutes.
9. Rinse well in distilled water and blot dry.
10. Dehydrate quickly in Absolute Alcohol, clear and mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

H. Pylori Blue
Mucin Yellow
Background Pale Blue

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