

ScyTek
Laboratories

Instructions For Use
TQF-IFU

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

Toluidine Blue Solution (For Metachromasia)

Description: Toluidine Blue Solution is designed for metachromatic staining of acidic substances.

Results: Acidic carbohydrates are metachromatic (pink to red or purple). Nuclei and cytoplasm are blue. Connective tissue mucins, ground substances of cartilage, mast cell granules and many epithelial mucins are metachromatic.

Availability:

<u>Item #</u>	<u>Volume</u>
TQF500	500 ml
TQF999	1000 ml

Procedure:

1. Deparaffinize and re-hydrate tissue.
2. Apply Toluidine Blue (TQF) for 1-10 minutes.
3. Rinse thoroughly in distilled water.
4. Dehydrate quickly in 2 changes of absolute alcohol.
5. Clear, and mount in synthetic resin.

Toluidine Blue Solution (Procedure for H. Pylori)

Description: The H. Pylori stain procedure is designed for demonstrating Helicobacter Pylori infected tissue. Reagents may be used on formalin fixed, paraffin-embedded tissue as well as frozen sections.

Helicobacter Pylori:	Blue
Mucin:	Yellow
Background:	Light Blue

Uses/Limitations: For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.

Control Tissue: Helicobacter Pylori infected stomach.

Required but Not Included:

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
PAQ500	Periodic Acid Solution	500 ml	2-8° Centigrade
SME125	Sodium Metabisulfite Solution	125 ml	Room Temperature
ANY125	Alcian Yellow Solution	125 ml	Room Temperature
SHC008	Sodium Hydroxide Solution (3%)	8 ml	Room Temperature

Precautions: Avoid contact with skin and eyes.
May cause burns.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Procedure (Standard):

Prepare Toluidine Blue Working Solution (Immediately prior to use):

Distilled Water	50 ml
Toluidine Blue Solution	10 drops
Sodium Hydroxide Solution	3 drops

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Periodic Acid Solution for 10 minutes (**Note: Do Not Reuse Periodic Acid Solution**).
3. Rinse thoroughly in distilled water.
4. Incubate slide in Sodium Metabisulfite Solution for 5 minutes.
5. Rinse thoroughly in distilled water.
6. Incubate slide in Alcian Yellow Solution for 5-10 minutes.
7. Rinse slide thoroughly in distilled water.
8. Incubate slide in freshly prepared Toluidine Blue Working Solution for 3-5 minutes (**Note: Do Not Reuse Toluidine Blue Working Solution**).
9. Rinse thoroughly in distilled water.
10. Dehydrate quickly in 2 changes of absolute alcohol.
11. Clear, and mount in synthetic resin.

References:

1. Leung, K., Gibbon, K.J. A Rapid Staining Method for Helicobacter Pylori in Gastric Biopsies, Journal of Histochemistry, Volume 19, Pages 131-132. 1996