

Alcian Blue (pH 1.0) Stain Kit

Description: The Alcian Blue (pH 1.0) Stain Kit is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances:	Blue
Nuclei:	Red
Background:	Pink

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

Control Tissue: Small Intestine
Appendix
Colon

Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Alcian Blue, pH 1.0	250 ml	15-30°C
Nuclear Fast Red Solution	250 ml	15-30°C
Hydrochloric Acid Solution	500 ml	15-30°C


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


Procedure notes:

Maintaining proper pH is critical to preventing false-positive mucin staining. 'Working Rinse Solution' should fall within pH 1.0 ± 0.15 and is used both before and after the Alcian Blue to control pH. Rinsing with deionized water or any other rinse may affect pH and cause non-specific staining. We recommend running at least one slide without the counterstain to compare intensity with slides that have been counterstained. Below procedure is written for slides laying horizontally that are stained by applying a small amount of solution.

Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water.

Storage: 15° C  30° C
**Store All Components At
Room Temperature.**

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Instructions For Use KT 002-IFU

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2. Make up sufficient amount of 'Working Rinse Solution' by mixing the following:
1 part of Hydrochloric Acid Solution (1N)
9 parts Deionized water
Notes: -An example mixture would be 10mls Hydrochloric Acid Solution + 90mls Deionized Water
-We suggest making at least 10mls per slide. A smaller amount is required for step 3 and a larger amount used in step 5 for rinsing.
3. Apply a small amount (<2ml/slide) of 'Working Rinse Solution' to tissue for 30 seconds to adjust pH in preparation for staining. Save remaining 'Working Rinse Solution' for step 5.
4. Drain slide and without rinsing, stain tissue section with Alcian Blue Solution (pH 1.0) solution for 30 minutes
5. Quickly and thoroughly rinse excess stain off slide using remaining 'Working Rinse Solution'.
6. Carefully blot and allow slide to air dry.
7. If preferred, counter stain in Nuclear Fast Red (Enhanced Stability) for 1-2 minutes with occasional agitation. Rinse very briefly in deionized water and allow to completely air dry again.
8. Clear, and mount in synthetic resin.

References:

1. Lillie, R.D. 1977, H.J. Conn's Biological Stains, 9th Edition. Williams & Wilkins, Baltimore. Pages 452-455.
2. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH. Pages 172-173.
3. Churukian, C.J., 1989, Manual of Special Stains Laboratory, 4th Edition. University of Rochester, Rochester, New York. Pages 55-56.
4. Carson, F.L., 1996, Histotechnology; A Self-Instructional Text, 2nd Edition. ASCP Press, Chicago, IL. Pages 117-121.

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