

Instructions For Use KT 003-IFU

Rev. Date: 2/17/2022

Revision: 5

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Alcian Blue (pH 2.5) Stain Kit

Description: The Alcian Blue (pH 2.5) Stain Kit is intended for use in the histological visualization of sulfated and carboxylated acid mucopolysaccharides and sulfated and carboxylated sialomucins (glycoproteins).

Acidic Sulfated Mucosubstances: Blue
Hyaluronic Acid: Blue
Sialomucins: 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.

Small Intestine

Control Tissue: Appendix
Colon

Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Alcian Blue, pH 2.5	250 ml	15-30°C
Nuclear Fast Red Solution	250 ml	15-30°C
Acetic Acid Solution	500 ml	15-30°C

Precautions: This product is a single-use, non-sterile, in vitro diagnostic device.
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 (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Acetic Acid solution for 3 minutes.
3. Incubate slide in Alcian Blue (pH 2.5) solution for 30 minutes at room temperature or 15 minutes at 37° C.
4. If desired, rinse slide briefly in Acetic Acid solution to remove excess Alcian Blue.
5. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
6. Stain slide in Nuclear Fast Red Solution for 5 minutes.
7. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.



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8. Dehydrate through graded alcohols.
9. 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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