



**Diagnostic
BioSystems**

Instructions For Use KT 003-IFU

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Alcian Blue (pH 2.5) Stain Kit

Description and Principle

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).

Alcian Blue, a copper phthalocyanine dye, binds acid mucopolysubstances. When used in a pH 2.5 acid solution Alcian Blue stains both sulfated and carboxylated acid mucosubstances.

Expected Results

Acidic Sulfated Mucosubstances:	Blue
Hyaluronic Acid:	Blue
Sialomucins:	Blue
Nuclei:	Red
Background:	Pink

Kit Contents

	Volume	Storage
1. Alcian Blue Solution (pH 2.5)	250 ml	15-30°C
2. Nuclear Fast Red (Enhanced Stability)	250 ml	15-30°C
3. Acetic Acid Solution	500 ml	15-30°C

Suggested Controls (not provided)

Small Intestine, Appendix, Colon

Uses/Limitations

For In-Vitro Diagnostic use only.

Do not use if reagents become cloudy or precipitate

Do not use past expiration date.

Use caution when handling reagents.

Non-Sterile

Intended for FFPE sections cut at 5-10µm.

This procedure has not been optimized for frozen sections.

Frozen sections may require protocol modification.

Storage

Store kit and all components at room temperature (15-30°C).

Safety and Precautions

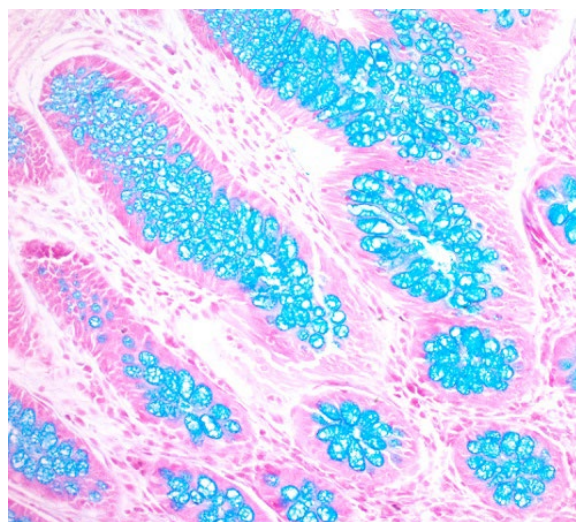
Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements. If there is any serious incident that has occurred in relation to the device, please contact the manufacturer: Diagnostic BioSystems Technical Support at (925) 484-3350, extension 2 or techsupport@dbiosys.com. If required, please report to the Competent Authority of the Member State in which the user and/or patient is established.

Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Acetic Acid solution for 3 minutes.
3. Stain tissue section with Alcian Blue Solution (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 tissue section with Nuclear Fast Red Solution (Enhanced Stability) for 5 minutes.



Alcian Blue Solution (pH 2.5) staining on Normal Human Colon.
Magnification 200X

7. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.

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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