



Instructions For Use

APS-IFU

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Alcian Blue – PAS Stain Kit

Description and Principle

The Alcian Blue - PAS Stain Kit is intended for use in the simultaneous histological visualization of sulfated and carboxylated acid mucopolysaccharides, sulfated and carboxylated sialomucins and neutral mucins.

Alcian Blue, a copper phthalocyanine dye, binds acid mucosubstances. When used in a pH 2.5 acid solution Alcian Blue stains sulfated and carboxylated acid mucosubstances. Neutral mucins are stained with a standard Periodic Acid Schiff (PAS) reaction. Neutral mucins are oxidized by Periodic Acid forming free aldehydes capable of binding Schiff's Solution resulting in a magenta end product. Hematoxylin is provided as a nuclear counterstain.

Expected Results

Acidic Sulfated Mucosubstances:	Blue
Hyaluronic Acid:	Blue
Sialomucins:	Blue
Neutral Mucins:	Magenta
Mixtures of Acidic and Neutral Mucins:	Blue - Mauve depending on dominant entity

Kit Contents

1. Acetic Acid Solution (3%)
2. Alcian Blue Solution, pH 2.5
3. Periodic Acid Solution (1%)
4. Schiff's Solution
5. Hematoxylin, Mayer's (Lillie's)

Storage

- | |
|---------|
| 18-25°C |
| 18-25°C |
| 2-8°C |
| 2-8°C |
| 18-25°C |

Suggested Controls (not provided)

Small or large 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

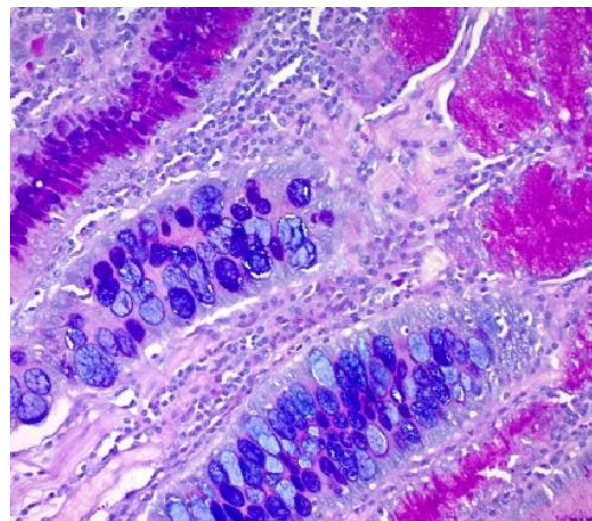
Mixed storage conditions. Store according to individual label instructions.

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

Procedure (at Room Temperature)

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply Acetic Acid Solution (3%) to tissue section for 2 minutes.
3. Remove excess Acetic Acid Solution (3%) and without rinsing apply Alcian Blue (pH 2.5) solution for 15-20 minutes.



Neutral and Acid Mucins on Human GI demonstrated with Alcian Blue (pH 2.5) and PAS. Magnification 200X

4. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
5. Apply Periodic Acid Solution to tissue section for 5 minutes.
6. Rinse slide in 2 changes of distilled water.
7. Apply Schiff's Solution to tissue section for 10-20 minutes.
8. Rinse for 2 minutes in warm running tap water followed by 2 changes of distilled water.
9. Apply Hematoxylin, Mayer's (Lillie's Modification) to tissue section for 2 minutes.
10. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
11. Dehydrate through graded alcohols.
12. Clear, and mount in synthetic resin.

References

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