



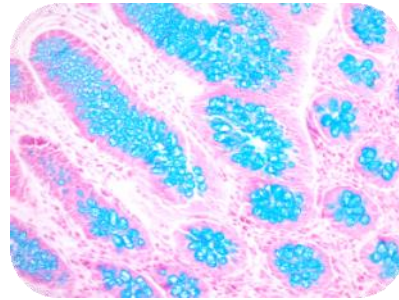
SS1001-PH25-VO

# 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:** Not to be taken internally.  
For In-Vitro Diagnostic use.  
Histological applications.  
Do not use if reagents become cloudy.  
Do not use past expiration date.  
Use caution when handling reagents.  
Non-Sterile.



**Control Tissue:** Small Intestine  
Appendix  
Colon

**Ordering information regarding individual components on back page!**

## Kit Contents:

<u>Item #</u>	<u>Product Name</u>	<u>Volume</u>	<u>Storage</u>
SSC1040	Alcian Blue Solution (pH 2.5)	250 ml	18-25°C
SSC1099	Nuclear Fast Red (Enhanced Stability)	250 ml	18-25°C
SSC1033	Acetic Acid Solution	500 ml	18-25°C

**Precautions:** Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.



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### 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.
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, 9<sup>th</sup> Edition. Williams & Wilkins, Baltimore. Pages 452-455.
2. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2<sup>nd</sup> Edition. Battelle Press, Columbus, OH. Pages 172-173.
3. Churukian, C.J., 1989, Manual of Special Stains Laboratory, 4<sup>th</sup> Edition. University of Rochester, Rochester, New York. Pages 55-56.
4. Carson, F.L., 1996, Histotechnology; A Self-Instructional Text, 2<sup>nd</sup> Edition. ASCP Press, Chicago, IL. Pages 117-121.
5. Leow, C.C., Romero, M.S., Ross, S., Polakis, P., and Gao, WQ. Hath1, Down-Regulated in Colon Adenocarcinomas, Inhibits Proliferation and Tumorigenesis of Colon Cancer Cells. Cancer Research 64, 6050-6057, September 1, 2004.
6. Kumar G, Hara H, Long C, Shaikh H, Ayares D, Cooper DK, Ezzelarab M. Adipose-derived mesenchymal stromal cells from genetically modified pigs: immunogenicity and immune modulatory properties. Cytotherapy. 2012 Apr 1;14(4):494-504.

