

PRODUCT INFORMATION
ALCIAN BLUE, pH 2.5



INTENDED USE

Alcian blue, pH 2.5 is used to stain acidic mucopolysaccharides.

PRODUCT SUMMARY

Alcian blue binds specifically to carboxyl and sulfate groups on carbohydrates at pH 2.4 and above. Once bound to tissue, Alcian blue is very difficult to remove and can be followed with any other staining procedure. Neither DNA nor RNA will stain with Alcian blue, presumably because of steric hindrance. The dye molecule is very large and flat, and cannot fit within the coils of nucleoproteins.

INGREDIENTS

Alcian blue (C.I. 74240), acetic acid

WARNING

Mild irritant. Alcian blue is a dye of untested toxicity.

For In Vitro Diagnostic Use.

STORAGE

Store at room temperature, away from direct sunlight. Keep containers tightly closed when not in use.

DIRECTIONS FOR USE

1. Filter before use.
2. Staining time depends upon section thickness and desired effects.
3. When combined with other procedures like nuclear staining or the PAS procedure, always stain with Alcian blue first.
4. A red nuclear stain contrasts well with Alcian blue. Brazilliant! (ANATECH Catalog #861) is recommended.
 - a. Alcian blue solution may deionize nucleic acids, thereby decreasing red nuclear stain intensity.
 - b. Bluing reagent (e.g., Scott's tap water) followed by a tap water rinse prior to nuclear staining will re-set the charge.
5. When combining Alcian blue with PAS, use Harris Hematoxylin (ANATECH Catalog #842) that will not stain mucus.

RECOMMENDED STAINING SCHEDULE

1. Clearant x 33 minutes each
2. 100% alcohol x 2 1 minute each
3. 95% alcohol 1 minute
4. 50% alcohol1 minute
5. Distilled or deionized water x 2.....30 seconds each
6. 3% acetic acid (fresh)rinse
7. Alcian blue, pH 2.510 minutes
8. 3% acetic acid (fresh)rinse
9. Secondary stain
 - a. Brazilliant!
 - i. Tap waterrinse thoroughly
 - ii. Bluing reagent..... 30 seconds
 - iii. Tap waterrinse thoroughly
 - iv. Brazilliant! 6 minutes
 - b. PAS procedure, or other special stain
10. Distilled or deionized water..... 1 minute
11. 70% alcohol 1 minute
12. 95% alcohol 1 minute
13. 100% alcohol x 31 minute each
14. Clearant x 3 1 minute each

Results: Acidic mucin–blue; Nuclei–red; Collagen, cytoplasm and muscle–dependent on counterstain

DISPOSAL

1. Use a licensed waste hauler.
2. Discard into the sanitary sewer system with the approval of local wastewater officials.

MSDS

MSDS are available online at www.anatechltusa.com.

ORDERING INFORMATION FOR ALCIAN BLUE

<u>Cat#</u>	<u>Packaging</u>
867	Alcian Blue, pH 2.5, 1 quart
880	Alcian Blue, pH 2.5 Stain Kit
862	Alcian Blue, Certified, 25 g jar
864	Alcian Blue, Certified, bulk, kg