

medilines

Alcian Colour

for **Mucins**

DESIGN TO DEMONSTRATE

Differentiate between neutral and acidic mucosubstances in Tissue Samples.

REAGENTS & PREPARATIONS

Alcian Solution 1:	Ready to use
Alcian Solution 2:	Ready to use
Alcian Solution 3:	Ready to use
Alcian Solution 4:	Ready to use

TISSUE SAMPLE

4-5 μ paraffin sections of 10% Neutral buffered formalin or Holland's Fixative fixed tissue.

STAINING PROCEDURES

1. Remove Paraffin through xylene, rehydrate through descending graded ethanol and bring sections to distilled water.
2. Place into **Alcian Solution 1** for 5 minute.
3. Rinse with distilled water.
4. Place into **Alcian Solution 2** for 10 minutes.
5. Rinse well with distilled water.
6. Place into **Alcian Solution 3** for 20 minutes.
7. Wash in running tap water for 10 minutes.
8. Stain in **Alcian Solution 4** for 4 minutes.
9. Differentiate in Acid Rinse 10 dips and 'bluing' in Scott's Tap Water 10dips.
10. Wash in running tap water for 5 minutes.
11. Dehydrate and differentiate with ethanol. Clear in xylene and mount with a resinous medium.

CONTROL

Neutral Mucin:	Stomach, prostrate
Acidic Mucin:	Skin, umbilical cord
Weakly sulfated epithelial mucin:	Large intestine

EXPECTED RESULTS

Acid Mucins: Blue

Neutral Mucins: Magenta

Mixtures of acidic & neutral mucins: Color depends on the dominant entity and will range from blue-purple or purple through violet or mauve

Nuclei: Pale Blue

Notes

Allow **Alcian Solution 3** Bottle to warm to room temperature prior to use.

Reference

Sheehan D, Hrapchak B, Theory and practice of Histotechnology, 2nd Ed, 1980, pp 163,173-174, Battelle Press, Ohio
Bancroft J, Stevens A, Theory and Practice of Histological Techniques, 2nd Ed, 1982,pp194-98,Churchill Livingstone, NY.
Carson F, Histotechnology A Self-Instructional Text, 1st Ed, 1990,pp130- 131, ASCP, Ill
Crookham, J, Dapson, R, Hazardous Chemicals in the Histopathology Laboratory, 2nd ED, 1991, Anatech LTD

Store kit at cold place

Pack size: for 75-100 Slides

medilines

medilines@medilines.com