

GCC SP962 Alcian Blue pH 0.5 -1.00 Stain Kit

USE

Standard and microwave procedures for the demonstration of strongly sulphated mucosubstances .

PRINCIPLE OF TEST

Alcian blue pH0.5 -1.00 reagent stains strongly sulphated mucosubstances and can be used with other Alcian Blue reagents at different pH's to differentiate different acidic mucopolysaccharides.

It is believed to form salt linkages with the acid groups of acidic mucopolysaccharides.

REAGENTS

1 -Alcian Blue sol. 1 x 100ml 2 – Acetic acid 3% 250ml
3 –Neutral red counterstain 100ml.

Reagent components in this kit are for 'In-Vitro Diagnostic use' . Standard precautions in the handling of laboratory reagents should be followed.

STORAGE AND STABILITY

Store all kit reagents in the kitbox provided at room temperature. Note expiry date on pack.

SPECIMEN COLLECTION AND STORAGE

For polysaccharides, fix tissue in 10% NBF, Zenkers or Bouin's fixative. Some carbohydrates are water soluble, prolonged fixation in aqueous fixatives may lead to their loss. Cut 4-5um sections.

TECHNIQUE [Tissue Sections] [ALCIAN BLUE]

- 1 - Deparaffinize and bring sections to water.
- 2- Treat with 3% Acetic acid for 3 minutes.
- 3 - Without rinsing the slide, flood slide with Alcian blue reagent for 20-30 minutes or in a microwave on Hi Power for 30 seconds. Rinse in running tap-water for 1-2 minutes then in de-ionised water for a few seconds.
- 4 - Flood slide with Neutral red counterstain for 3-4 minutes. Rinse for a few seconds under tap water.
- 5 - Dehydrate through alcohols, clear in xylene and coverslip using DPX mountant or similar.
- 6- Examine.

QUALITY CONTROL

Small intestine, appendix or colon.

EXPECTED OBSERVATIONS.

Strongly sulphated mucosubstances - Blue
Nuclei / cytoplasm - Pinkish – red

HEALTH & SAFETY

Use these reagents in a ventilated area / under fume hood and wear eye and skin protection when using. Do not consume these reagents.

Alcian blue and acetic acid reagent are corrosive <3% acetic acid aqueous. Irritant and may cause burns to eyes and skin. Neutral red counterstain does not pose any significant hazard in use.

R: 20, 21, 22, 36, 38 S: 20/21, 24/25, 36/37

For more complete information on Health & Safety, Storage, Fire-fighting, Transport , Spillage etc please read the MSDS for this product.

ACCIDENTAL SPILLAGE & WASTE DISPOSAL

In the volumes supplied in the kit and when in use, this product is unlikely to present a serious spillage risk. However, the following information is provided to deal with any spillage or disposal problem that may arise.

Alcian blue reagent and Acetic acid reagent – mop up with cloth and wash are down with water or a solution of sodium carbonate in water to neutralise the acidic effect of the acid. Dispose of spillage or waste reagent down the public sewer diluting greatly with water.

Neutral red counterstain – mop up and rinse to drain.

UNSATISFACTORY PERFORMANCE

As part of our duty to monitor product performance and our policy of continual improvement. Please report to us any unsatisfactory performance you may experience with this product. If any reagent degrades before expiry date of shelf life we will replace that reagent free of charge.

GCC Diagnostics guarantees that the highest quality reagents are supplied with this product and that the product conforms to the information contained in this leaflet.

The user should however, determine the suitability of this product for their particular use.

If you wish to report any findings to us or if you require help or further information on the use of this product please contact us.

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