

ALCIAN BLUE STAIN KIT (SS003-25)

INTENDED USE

BioMarq Alcian Blue Stain Kit is used for *in vitro* diagnostic use. It is used to stain acidic polysaccharides such as glycosaminoglycans in cartilages and other body structures & some types of mucopolysaccharides, sialylated glycocalyx of cells etc. The results using this product should be interpreted by a qualified pathologist in conjunction with the patient's relevant clinical history, other diagnostic tests and proper controls.

PRODUCT DESCRIPTION

Alcian blue stains acid mucosubstances and acetic mucins. Excessive amounts of non-sulfated acidic mucosubstances are seen in mesotheliomas, certain amounts occur normally in blood vessel walls but increase in early lesions of atherosclerosis. Strongly acidic mucosubstances will be stained blue, nuclei will be stained pink to red, and cytoplasm will be stained pale pink.

KIT CONTENTS

Alcian Blue pH2.5 (SS004-8D)	1X8ml
Nuclear Fast Red (SS010-8D)	1X8ml

MATERIALS REQUIRED BUT NOT PROVIDED

Microscope slides
Xylene/ Xylene substitute
Reagent alcohol/Ethanol
Deionized or distilled water
SS Wash Solution (Catalog No WB005-DC)
Positive Control Slides
Mounting Solutions

STORAGE AND STABILITY

Store at 2-8°C. Do not freeze. Not to be used beyond the expiration date prescribed on label.

SPECIMEN PREPARATION

Fixation: 10% NBF, Bouin's, or Hollande's

Paraffin Sections: Cut sections at 4 microns.

RECOMMENDED PROTOCOL

Deparaffinize with xylene/ xylene substitute and rehydrate through graded alcohols to deionized water. Wash the slide with SS Wash Solution for 3 times.

Stain the slides with 300ul of Alcian Blue pH2.5 for 20 min. Wash the slide with SS Wash Solution for 4 times.

Stain the slides with 300ul of Nuclear Fast Red for 5min. Wash the slide with SS Wash Solution for 3 times.

Blot dry and Mount the slides with BioMarq XY-Mount (Catalog No MS002) or using BioMarq T-Mount (Catalog No MS003).

TECHNICAL NOTE

Bring all reagents to RT before use

Gently invert all reagents prior to use

Thickness of section may affect the intensity of staining

Users can also procure the Positive Control Slides available from BioMarq for their Quality Control purpose.

Follow the protocol recommendations provided in the data sheet. If atypical results occur, contact BioMarq Technical Support at 040-29702960.

ALCIAN BLUE STAIN KIT (SS003-25)

RECOMMENDED CONTROL

SMALL INTESTINE, APPENDIX OR COLON

STAINING INTERPRETATION

Acid mucins, proteoglycans and hyaluronic acid-Blue

Nuclei - Red/Pink

Cytoplasm -Pink

For image please visit our web site www.biomarq.net

PRECAUTIONS

Specimens should be handled carefully before and after the assay to avoid transmission of infection and disposed of with proper precautions

When working with Special Stain chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles

For detailed safety information related to BioMarq Products, please refer to appropriate safety data sheets (SDS) available online at www.biomarq.net

REFERENCES

1. Usman Ali et al, Mucin Histochemistry in Tumours of Colon, Ovaries and Lung, J Cytol Histol 2012.
2. NAAG S et al, Histochemical Study Of Salivary Mucins In Normal And Neoplastic Salivary Glands, Journal of Clinical & Diagnostic Research, 2010 December(4), p-3450 – 3458.
3. Quintarelli G., Scott J.E. and Dellovo M.C. (1964) The chemical and histochemical properties of alcian blue. II. Dye binding polyanions. Histochemie 4: 86-98