

Alcian Blue stain kit

Instruction For Use

IVD



[Product Name]

Alcian Blue stain kit

[Catalog No.]

HS2007/HS2008

[Specification & Components]

Name	Specification	
	Type: PH 1.0	Type: PH 2.5
Alcian Blue stain kit	2×5ml/box,	2×5ml/box,
	2×10ml/box	2×10ml/box
	2×20ml/box	2×20ml/box
	2×50ml/box	2×50ml/box

Name	Main components
Alcian blue stain (pH 1.0)	Alcian blue
Hydrochloric acid aqueous solution	Hydrochloric acid

Name	Main components
Alcian blue stain (pH 2.5)	Alcian blue
Nuclear Fast Red Solution	Nuclear Fast Red

[Intended Use]

For tissue cytology staining, qualitative identification of mucopolysaccharides.

[Storage and Validity]

Store at room temperature, valid for 18 months. Transportation conditions: no more than 7 days at room temperature. It is recommended to use up it in 6 months after opening, and the cap should be tightened in time after each use to avoid volatilization or deterioration.

[Specimen Requirements]

The tissue are fully fixed and deparaffinized.

Tissue Preparation: Fresh biopsy or surgical samples fixed in 10% neutral buffered formalin for 8 to 24 hours. Extracted, dehydrated, and paraffin embedded according to specifications. Store wax blocks in a ventilated, dry cabinet at room temperature.

Tissue Sectioning: Spread tissue sections (3-5 μm thick) on an adhesive slide. Absorb excess water droplets with hygroscopic paper. Dry at 60°C ±5°C for 30-60 minutes or at 37°C overnight, then cool at room temperature.

[Test Method]

Testing Instrument: Optical microscope

Procedure:

1. Routine deparaffinization and hydration.

2. Stain with alcian blue solution (pH 1.0) for 20-30min, rinse with distilled water.
3. Rinse with hydrochloric acid aqueous solution.
4. To blot the excess hydrochloric acid solution with filter paper without washing.
5. Sequentially dehydrated by soaking in 75% ethanol, 85% ethanol, 95% ethanol, anhydrous ethanol (soak time should not be too long), then xylene transparent, neutral gum sealer.

[Quality Control]

1. Samples are taken from accurate sites, and the thickness of the section is 3~5μm.
2. The reagent must be used by professional technicians who have been strictly trained, and the staining operation should be carried out in strict accordance with the instructions.
3. Positive control
A positive control serves as an indication of proper tissue preparation and appropriate staining technique. Take intestinal tissue as a positive control:
Alcian Blue Stain (pH 1.0): The sulfuric acid mucus material is blue, non-sulfuric acid mucus material does not stain, the nucleus and other tissues do not stain.

[Results Interpretation]

1. Staining time, temperature or application of other methods may lead to differences in staining intensity.
2. The treatment of tissue before staining directly affects the staining results. Improper fixation, washing, dehydration, or four other tissue or fluid contamination can cause inaccurate staining results. Irregularities within the fixation or tissue may also cause abnormal staining results.
3. Excessive or inadequate re-staining can affect staining results.
4. If the mucus material fails to show appropriate staining results, this is an indication of operator error or improper storage of the staining solution, and the results of this batch of test specimens should be considered invalid.
5. The test results are for clinical reference only. Interpretation of any staining results should be performed by the pathologist in conjunction with pathomorphology, clinical manifestations and other testing methods, and is not to be taken as a separate diagnostic indicator.

[Test Limitations]

It is limited to staining and observation of pathological tissue contents.

[Cautions]

1. Sections should be dewaxed as clean as possible.
2. After the reagent is removed from the refrigerator, please return to room temperature completely before use.
3. Alcian blue solution staining is characterized by strong staining, solid color, staining time extension will not be over-stained.
4. In the test method, the hydrochloric acid aqueous solution is slightly washed without water washing, otherwise it will change the pH value of the stain solution and cause non-specific staining.
5. The longer the dyeing time of nuclear fast red staining solution is, the darker the coloring of Alcian blue stain is or the mucus material is agglomerated, so it can not be dyeing



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- nuclear fast red staining solution.
- 6.The vessels used in the staining process should be sufficiently clean.
- 7.This product should be used and interpreted by professionals.
- 8.To read the instructions carefully before use, use within the validity period, and make good personal hygiene protection.
- 9.After use, the waste should be disposed of according to the requirements of the hospital or environmental protection department.
- 10.Production date Batch number and expiration date are shown on the out package.

[Symbols]

The following symbols may be found in this IFU or on the product labeling. Some glossary symbols may not be applicable to this product.

Symbol	Used for	Symbol	Used for
	Expiration Date		Consult instructions for use
	Lot Number		<i>In Vitro</i> diagnostic medical device
	Storage Temperature		Manufacturer
	Catalogue number		Date of manufacture

[Version]

Revision date: 2024-12-31
Version: 01; Change Summary: new