

Alcian blue pH 2,5 technical's information
 Technical's card code 09-107
 Product code 09-107
 Pack 100 ml or on request
 Stability of product properly conserved in a dark place at 15-25°C 24 months.

Suppliers
 Company identification.
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in case of emergency UE number		112
in case of emergency UK number		999
en cas d'urgence Suisse number		145

Principle

Combination of PAS staining with Alcian blue allows the additional identification of acid mucosubstances (glycosaminoglycans). For PAS staining the material is treated with periodic acid during which process the 1,2-glycols are oxidized to aldehydes groups. With Schiff's reagent, aldehydes give a bright red color reaction. With non-substituted polysaccharides, neutral mucopolysaccharides, mucoproteins and glycoprotein, glycolipids and phospholipids the PAS staining gives a specific color reaction. Acid mucosubstances can be demonstrated by the non-specific method with nuclear fast red counterstaining, without differentiation of carboxyl and sulphate groups.

Sample material

Sections of formalin-fixed, paraffin-embedded tissue or cell smears are used as starting material.
 3-5 µm thick paraffin sections

Alcian blue staining for acid mucosubstances

Deparaffinise the sections in the typical manner and rehydrate
 Alcian blue solution 5 minute. Running tap water 3 minute
 Rinse in distilled water
 Nuclear fast red solution 10 minute
 Running tap water 3 minute. Rinse in distilled water
 Ascending alcohol series
 Clear in xylene. Mount with DdMount

Result

Nuclei red
 Acid mucosubstances light blue

Procedure Alcian blue-PAS staining

Deparaffinize the sections in the typical manner and rehydrate
 Alcian blue solution 5 minute. Running tap water 3 minute
 Rinse in distilled water
 Periodic acid 10 minute. Running tap water 3 minute
 Rinse in distilled water
 Schiff's reagent 15 minute. Running tap water 3 minute
 Rinse in distilled water
 Gill III haematoxylin solution 20 second. Running tap water 3 minute
 Ascending alcohol series
 Clear in xylene Mount with DdMount

Result

Nuclei blue
 Acid mucosubstances light blue
 Polysaccharides, neutral mucopolysaccharides purple

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Sample preparation.

All samples should be treated using state-of-the-art technology. All samples must be clearly labelled. Suitable instruments must be used for taking samples and their preparation; manufacturer instructions for application/use must be followed.

Diagnostics.

Diagnoses are only to be made by authorized and trained persons. Valid nomenclatures must be used. Further tests must be selected and implemented according to recognized methods.

Storage

The reagents must be stored at +15°C to +25°C, at +5°C to +30°C. After the first opening of the bottle the contents can be used up to the expiry date when stored at +15°C to +25°C, at +5°C to +30°C.

Shelf-life.

The bottles must be kept tightly closed at all times. The reagents must be used by the expiry date stated. Instructions for use. In order to avoid errors, the staining process must be carried out by an expert.

Only for professional use. National guidelines for work safety and quality assurance must be followed. Microscopes equipped according to the standard must be used. If necessary use a standard centrifuge suitable for medical diagnostic laboratory.

Protection against infection.

Effective measures must be taken to protect against infection in line with laboratory guidelines. Instructions for disposal. Used solutions and solutions that are past their shelf-life must be disposed of as special waste according to local disposal guidelines.

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