Alcian Blue pH 2.5 Kit

ABLU-KA2-100

Storage conditions

Store at 15 - 25 °C, protected from fire and sunlight. Stability of 2 years under recommended storage conditions.

Content

A. Alcian blue staining solution pH 2.5 (50 ml)
B. Nuclear Fast Red staining solution (50 ml)

Procedure duration

~50 min (~20 min – microwave oven modification).

Application

Alcian blue is used for the identification of acid mucins, which can be produced by several types of epithelial and connective tissue tumors. Acid mucins also play a role in collagen diseases and early stages of atherosclerosis. This staining kit is weakly acidic and is used to identify, by light microscopy, carboxylated and some weakly sulfated mucopolysaccharides (mucins) in paraffin tissue sections*.

*All reagents have been optimally prepared for use and require no mixing or diluting.

Method

1. Deparaffinize and bring sections to water
2. Cover section with reagent A for 30 min

Optional: heat up the solution in glass laboratory baker (or coplin jar) in microwave oven and cover sections for 5min. Solution should not be heated more than 50 times

3. Wash with running tap water for 2-5 min
4. Cover with reagent B for 5-10 min (due to laboratory requirements)
5. Wash with running tap water for 1 min
6. Dehydrate in alcohols and lighten in Xylene. Mount in resin (optional) and examine

Visualization

Carboxylated and some weakly sulfated acid mucins: Blue

Nuclei: Red to pink

Other tissue elements: Pale pink