

SULFATED ALCIAN BLUE METHOD FOR AMYLOID (SAB)

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of amyloid.
PRINCIPLE:	Alcian Blue is a copper phthalocyanine dye and contains positively charged groups capable of salt linkage with sulphated radicals of the acid polysaccharides, such as those found in amyloid.
CONTROL:	Any tissue known to contain amyloid <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs001.</i>
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6-8 micrometers
SOLUTIONS:	<ol style="list-style-type: none"> Alcian Blue in 95% Reagent Alcohol Item# s2376 Sodium Sulfate 1% Aqueous Item# s2377 Acetic Acid Glacial Item# c800 <u>SAB Staining Solution:</u> Alcian Blue in 95% Reagent Alcohol.....22.5 mL Sodium Sulfate 1% Aqueous22.5 mL Acetic Acid Glacial.....5.0 mL Acetic Alcohol Solution Item# s2378 Borax Saturated in 80% Reagent Alcohol Item# s2379 Weigert's Iron Hematoxylin Sol Set (A & B) Item# s216B <u>Working Solution:</u> Mix equal parts of solutions A & B for use. Picric Acid 2.5% in 80% Reagent Alcohol Item# s2315 Van Gieson's Solution Item# s289 <p><i>Solutions can be purchased separately from Poly Scientific.</i></p>
NOTES:	
REFERENCE:	Lendrum, A.C., Slidders, W. and Fraser, S. "Renal Hylin: A . Study of Amyloidosis and Diabetic Fibrinous Vasculosis with New Staining Methods". <u>J. of Clin. Path.</u> v 25. p. 373.

STAINING PROCEDURE:

- Deparaffinize and hydrate to distilled water.
- Place slides in Acetic Alcohol Solution for 2 minutes.
- Stain in SAB Staining Solution for 2 hours.
- Decolorize 2 minutes in Acetic Alcohol Solution.
- Wash well in water.
- Alkalinize in Borax Solution for 30 minutes.
- Wash well in water.
- Stain nuclei in Weigert's Iron Hematoxylin for 5 minutes.
- Wash well in water.
- Differentiate each slide individually by dipping in Picric Acid Solution for 20 seconds.
- Counterstain in Van Gieson's Solution for 3 minutes.
- Dehydrate rapidly in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes of each.
- Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

- Amyloid..... Pale Gray-Green to Brilliant Jade Green
- Mast Cells..... Brilliant Jade Green
- Nuclei..... Black
- Fibrin..... Yellow
- Collagen..... Red

