

**SULFATED ALCIAN BLUE METHOD FOR AMYLOID (SAB) (Microwave)**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of amyloid.
<b>PRINCIPLE:</b>	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.
<b>CONTROL:</b>	Any tissue known to contain amyloid  <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs001.</i>
<b>SPECIMEN PREPARATION:</b>	Formalin fixed, paraffin embedded sections cut at 6-10 micrometers
<b>SOLUTIONS:</b>	<ol style="list-style-type: none"> <li>Alcian Blue in 95% Reagent Alcohol Item# s2376</li> <li>Sodium Sulfate 1% Aqueous Item# s2377</li> <li>Glacial Acetic Acid Item# c800 SAB Staining Solution: Alcian Blue in 95% Ethyl Alcohol .....22.5 mL Sodium Sulfate 1% Aqueous .....22.5 mL Glacial Acetic Acid..... 5.0 mL</li> <li>Acetic Alcohol Solution Item# s2378</li> <li>Borax Saturated in 80% Reagent Alcohol Item# s2379</li> <li>Weigert's Iron Hematoxylin Solution Set (A &amp; B) Item# s216B Working Solution: Mix equal parts of solutions A &amp; B for use.</li> <li>Van Gieson's Solution Item# s289</li> </ol> <p><i>Solutions can be purchased separately from Poly Scientific.</i></p>
<b>NOTES:</b>	<i>Variations in timing may occur due to the power wattage of the microwave oven. Provided times and power levels are based on 1000 watt microwave oven.</i>
<b>REFERENCE:</b>	Lendrum, A.C., Slidders, W. and Fraser, D.S. "Renal hyalin. A study of amyloidosis and diabetic fibrinous vasculosis with new staining methods". <u>J. of Clin.Path.</u> V.25:1972. p. 373.

**STAINING PROCEDURE:**

- Deparaffinize and hydrate slides to distilled water.
- Place slides in Acetic Alcohol Solution for 1 minute.
- Microwave slides in SAB Staining Solution on high power for 45 seconds and then allow slides to incubate for 20 minutes.
- Decolorize in Acetic Alcohol Solution for 1 minute.
- Wash in running tap water for 1 minute.
- Alkalinize slides by placing in Borax Saturated in 80% Reagent Alcohol and microwave on high power for 45 seconds. Allow slides to incubate for 5-10 minutes.
- Wash in running water for 1 minute.
- Stain in Weigert's Iron Hematoxylin for 5 minutes.
- Wash in running water for 3-5 minutes.
- Counterstain in Van Gieson's Solution for 2 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

*Poly Scientific R&D Corp.*

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