



2-5. Modified Alkaline Congo Red for Amyloid (Ref 4)

Staining Procedures For Plastic Embedded Tissue

Verified at the Applications Laboratory of the Biomedical Division, Sorvall Microtomes

SOLUTIONS:

Congo Red Stock Solution

3.0g Congo red

3.0g Sodium chloride

1000.0ml Alcohol, 80%

Congo Red Working Solution

50.0ml Congo red stock solution

0.5ml Sodium hydroxide, 1%

Filter and use within 20 minutes.

Ammonia Water

Add a few drops of ammonium hydroxide to tap water to raise pH and insure proper staining.

Harris' Hematoxylin

See formula in procedure 2-7, b.

RESULTS:

Amyloid	red and shows dichromic metachromasia on polarization
nuclei	blue

Warning: Some of the chemicals used for the staining procedures given in this section may be hazardous if misused. For this reason, read and observe all warnings and cautions provided by the manufacturer for each chemical before proceeding with a staining procedure.

Note: In order to prevent sections from loosening from the slides during staining, all sections should be heat-fixed (60°C to 100°C) to the slides for a minimum of 2-5 minutes prior to staining, preferably at the time the sections are mounted on the slides.