Crystal Violet Stain, Lieb, Alcoholic for Amyloid - Technical Memo

**SOLUTION:**

100 ml
Crystal Violet Stain, Lieb, Alcoholic Part 10421A

**Additionally Needed:**

- Amyloid, Animal Control Slides Part 4031
- Xylene, ACS Part 1445
- Alcohol, Ethyl Denatured, 100% Part 10841
- Alcohol, Ethyl Denatured, 95% Part 10842

For storage requirements and expiration date refer to individual product labels.

**APPLICATION:**

Newcomer Supply Crystal Violet Stain, Lieb, Alcoholic is used to provide a rapid screening method for amyloid deposits in tissue sections. This procedure has low sensitivity and should only be considered as an amyloid screening technique and not an amyloid specific stain.

**METHOD:**

**Fixation:** Formalin 10%, Phosphate Buffered (Part 1090)

**Technique:** Paraffin sections cut at 10-12 microns

- See Procedure Note #1.

**Solutions:** All solutions are manufactured by Newcomer Supply, Inc.

**STAINING PROCEDURE:**

1. Deparaffinize sections thoroughly in three changes of xylene, 3 minutes each. Hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
   - See Procedure Note #2.
2. Stain sections in Crystal Violet Stain, Lieb, Alcoholic for 10 minutes.
3. Rinse well in tap water.
4. Blot water from slides; allow slides/sections to air-dry in a vertical position.
5. Cover slip air-dried sections with compatible mounting medium.
   - See Procedure Note #3.

**RESULTS:**

- Amyloid Purple/violet
- Background Purple/blue

**PROCEDURE NOTES:**

1. For optimal results sections should be cut at 10-12 microns. This will provide better definition and more intense amyloid staining.
2. Drain staining rack/slides after each step to prevent solution carry over.
3. Avoid the use of aqueous based mounting mediums which will cause bleeding/diffusion of the stain from the tissue section.
4. If using a xylene substitute, closely follow the manufacturer’s recommendations for deparaffinization step.

**REFERENCES:**

5. Modifications developed by Newcomer Supply Laboratory.