

E-305 VASSAR-CULLING METHOD FOR AMYLOID

Fixation : 10% Buffered Neutral Formalin (F-113)

Sections: Paraffin at 6 microns..

Staining:

1. Deparaffinize and hydrate to distilled water. It is a recommended technique for a control slide to check the toning process with the Thioflavine T stain.
2. Stain in **Mayer's Hematoxylin** (E-305-2) for 5 minutes.
3. Wash in running water for 1 minute.
4. Tone in **Thioflavine T, 1%** (E-305-1) 3 minutes.
5. Wash in running water for 10 minutes.
6. Differentiate in **Acetic Acid, 1%** (E-305-3) for 10 minutes.
7. Wash in running water for 2 minutes.
8. Mount. Apathy's mounting medium is the recommended adhesive.

Results:

Amyloid

White Fluorescence

Note: Use of a simple UV filter, i.e. colorless, with a shorter light wave length in the eyepiece (Zeiss UG-5 excitor light) will increase the specificity of this staining procedure. The amyloids will appear yellowish with the surrounding area toned in blue.

References:

Vassar, P.S. and Culling, C.F.A.: *Thioflavine T Stain for Amyloids*, "Arch. Path", 68: 487 (1959).

Luna, L.G., ed.: *AFIP Manual of Histologic Staining Techniques*; 3rd edition, New York: McGraw Hill Publications, c. 1968, p. 157.