

E-303 SWEAT-PUCHTER METHOD FOR AMYLOID

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

Sections: Paraffin at 6 microns. 12 micron sections may be used to demonstrate minute amyloid deposits. Staining is brighter on 12 micron sections.

Staining:

1. Deparaffinize and hydrate to distilled water.
2. Wash in running water 5 minutes. Mordant in Buffered Neutral Formalin overnight. Wash in water for 15 minutes.
3. **Alkaline Alcohol Solution** (E-303-4) for 1 hour. Rinse in distilled water for 10 seconds.
4. Stain in preheated **Sirius Red Solution** (E-303-1) for 90 minutes @ 60°C. Rinse briefly in two changes of **Borate Buffer** (E-303-3). Wash in running water for 5 minutes.
5. Stain in **Hematoxylin Solution** (E-303-2) for five minutes. Wash in running water for at least 20 minutes to prevent fading of stain.
6. Hydrate rapidly in Absolute Alcohol. Clear in three changes of Xylene. Mount.

Results:

Amyloid	Pink to Red
Nuclei	Blue
Elastica	Pink to Red
Background	Unstained

References:

Sweat, F. and Puchtler, H.: Arch. Path. 80:613, 1965.

AFIP Manual of Histologic Staining Methods, 3rd edition, Ed L. Luna: New York: McGraw Hill Publications, c. 1968, p. 154.