

F-356, PUCHTLER-SWEAT METHOD FOR BASEMENT MEMBRANES

Fixation: Carnoy's Solution , (F-60)

Sections: Paraffin @ 6 microns

Staining:

1. Deparaffinize and hydrate to distilled water.
2. **Periodic Acid, 0.5%** (F-356-3) for 5 minutes. Rinse in two changes of distilled water.
3. **Sodium Bisulfite Solution**, (F-356-4) for 15 hours. Rinse in five or six changes of distilled water.
4. **Resorcin-Fuchsin Solution** (F-356-1) for 4 hours. Rinse in three changes of distilled water.
5. Counterstain in **Nuclear Fast Red** (F-356-2) for 4 hours. Rinse in three changes of distilled water.
6. Dehydrate in 95% Alcohol, Absolute Alcohol, and clear in **Xylene**, (C-120), two changes each.
7. Mount with **Permout** (M-18).

Stain Results:

Basement Membranes	Black in cross sections/Grey in tangential sections
Nuclei	Pink to Red

References:

Puchtler, H. and Sweat, F.: Stain Techn., 39:163, 1964.
AFIP Manual of Histological Staining Methods, 3rd ed., Ed. L. Luna: New York: McGraw Hill Publications, c. 1968, p. 73.