
C-212 PIZZOLATO'S METHOD FOR CALCIUM OXALATE

FIXATION: **Buffered Neutral Formalin, 10%** (F-113)

SECTIONS: Paraffin @ 6 microns

STAINING:

1. Deparaffinize and hydrate to distilled water.
2. Pour enough working silver nitrate-hydrogen peroxide solution* onto slides to cover sections. Place a 60-watt light bulb 6 inches from sections for 30 minutes. Rinse thoroughly with distilled water.

* Prepare working solution by mixing, just before use, equal quantities of **Silver Nitrate, 5%** (C-212-1) and **Hydrogen Peroxide, 30%** (C-212-2).

3. Counterstain for 5 minutes in **Nuclear Fast Red Solution** (C-212-3). Rinse in distilled water.
4. Dehydrate in 95% alcohol, absolute alcohol and clear in Xylene, two changes each.
5. Mount with **Permount** (M-18).

Stain Results:

| | |
|---------------------------|-------|
| Calcium oxalate | Black |
| All other tissue elements | Red |

Note: If a large amount of egg albumin section adhesive is present, numerous gas bubbles will develop during the light bulb staining treatment (step 2). This tends to inhibit the reaction. Should this occur, pour off the mixture and add fresh solution.

References:

Pizzolato, P., J. Histochem. Cytochem., 12:333-336, 1964.

Luna, L.G., (ed), Manual of Staining Methods of the AFIP, 3rd edition, McGraw-Hill, NY, c 1968, p 177.