

C-111 KOSSA'S METHOD FOR CALCIUM

Fixation: Absolute Alcohol (F-10), Formol Alcohol (F-127)

Sections: Cut paraffin @ 6 microns

Staining: Use control slide. Use chemically clean glassware.

1. Deparaffinize and hydrate to Distilled Water.
2. Silver Nitrate, 5% (C-211-1), for 60 minutes exposed to direct sunlight. In the absence of strong sunlight an ultra-violet lamp or a 100-watt lamp may be substituted. Rinse in Distilled Water.
3. Sodium Thiosulfate, 5% (C-211-3), for 2 minutes. Rinse well in Distilled Water.
4. Counterstain in Nuclear Fast Red (Kernechtrot) (C-211-2), for five minutes. Rinse in Distilled Water.
5. Dehydrate in 95% Alcohol (D-11) and clear in Xylene (C-120), 2 changes each.
6. Mount with Permount (M-18).

Stain Results:

Calcium salts	Black
Nuclei	Red
Cytoplasm	Light Pink

References:

Mallory, F.B.: Pathological Technique, New York, Hafner Publishing Company, 1961, p. 144.

AFIP Manual of Histological Staining Methods, 3rd. ed., Ed. L. Luna, New York: McGraw Hill Publications, c. 1968, p. 97.