

Calcium Stain Kit (Modified Von Kossa)

Description: The Calcium Stain Kit (Modified Von Kossa) is intended for use in the histological visualization of calcium deposits in paraffin or frozen sections.

Calcium in mass deposits:	Black
Calcium in dispersed deposits:	Gray
Nuclei:	Red
Cytoplasm:	Light Pink

Uses/Limitations: For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.

Control Tissue: Any paraffin embedded tissue that contains calcium deposits.

Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Silver Nitrate Solution (5%)	125 ml	2-8° Centigrade
Sodium Thiosulfate Solution (5%)	125 ml	Room Temperature
Nuclear Fast Red Solution	125 ml	Room Temperature

Precautions: Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Silver Nitrate Solution (5%) for 30-60 minutes with exposure to ultraviolet light or 100 watt incandescent.
3. Rinse in several changes of distilled water.
4. Incubate slide in Sodium Thiosulfate Solution (5%) for 2-3 minutes.
5. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
6. Incubate slide in Nuclear Fast Red Solution for 5 minutes.
7. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
8. Dehydrate very quickly in 3 changes of fresh Absolute Alcohol.
9. Clear, and mount in synthetic resin.

References:

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH.

Storage: 2° C  25° C

Mixed Storage Conditions.
Separate Contents.