



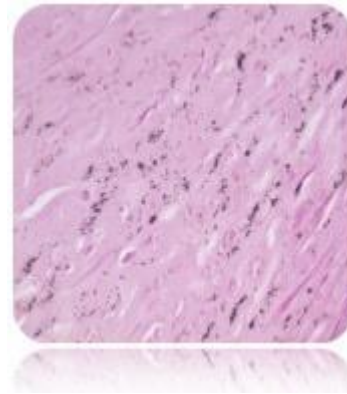
# Calcium Stain Kit (Modified Von Kossa)

**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:** Not to be taken internally.  
For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use if reagents become cloudy.  
Do not use past expiration date.  
Use caution when handling reagents.  
Non-Sterile.


**Control Tissue:** HCS1001 (25 Slides)  
Any paraffin embedded tissue that contains calcium deposits.



**Kit Contents:**

<u>Components</u>	<u>Volume</u>	<u>Storage</u>
Silver Nitrate Solution (5%)	125 ml	2-8°C
Sodium Thiosulfate Solution (5%)	125 ml	18-25°C
Nuclear Fast Red Solution	125 ml	18-25°C

**Precautions:** Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.

Storage: 2° C  25° C

**Mixed Storage Conditions.**  
**Separate Contents.**




**Procedure (Standard):**

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Silver Nitrate Solution (5%) for 30-60 minutes while exposing to either ultraviolet light or incandescent light at 75 watts or greater. For best results, keep light source within 2 feet (61cm) of slide during Silver Nitrate staining procedure.
3. Rinse in 3 changes of distilled water.
4. Incubate slide in Sodium Thiosulfate Solution (5%) for 2 minutes.
5. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
6. Stain tissue section with 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 Absolute Alcohol.
9. Clear, and mount in synthetic resin.

**References:**

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2<sup>nd</sup> Edition. Battelle Press, Columbus, OH.
2. Clark, G., et al. Staining Procedures, 4<sup>th</sup> Edition, Williams & Wilkins Press, Baltimore, MD.
3. Symonds, D.A., Use of the Von Kossa stain in identifying occult calcifications in breast biopsies. American Journal of Clinical Pathology, 1990, July; 94(1) pages 44-48.

Description:	Volume
Silver Nitrate Solution (5%)	125 ml 500 ml
Sodium Thiosulfate Solution (5%)	125 ml 500 ml 1000 ml
Nuclear Fast Red Solution	125 ml 500 ml 1000 ml

Storage: 2° C  25° C

**Mixed Storage Conditions.  
Separate Contents.**