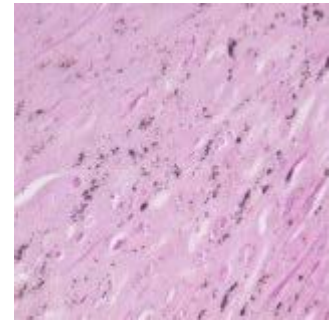


# Calcium Stain Kit (Modified Von Kossa)

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

<b>Calcium in mass deposits</b>	Black
<b>Calcium in dispersed deposits</b>	Gray
<b>Nuclei</b>	Red
<b>Cytoplasm</b>	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** Any paraffin embedded tissue that contains calcium deposits.

<b>Kit Contents</b>	<b>Catalog</b>	<b>Product</b>	<b>Volume</b>	<b>Storage</b>
	HSNV125	Silver Nitrate Solution (5%)	125 ml	2-8°C
	HSTB125	Sodium Thiosulfate Solution (5%)	125 ml	18-25°C
	HNFS125	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.

- 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**

- Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH.
- Clark, G., et al. Staining Procedures, 4th Edition, Williams & Wilkins Press, Baltimore, MD.
- 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.