



Calcium Stain Kit Modified Von Kossa

Solutions Provided:

- #SSC1122 – **Silver Nitrate, 5%**
- #SSC1131 – **Sodium Thiosulfate, 5%**
- #SSC1099 – **Nuclear Fast Red**

Working solution preparation (prepare just before use):

Working Iron Hematoxylin Solution*

- Iron Hematoxylin, Solution A: 25mL
- Iron Hematoxylin, Solution B: 25mL

*Final volume may be adjusted as long as equal parts Sol. A and Sol. B are used.

Procedure

1. Deparaffinize and hydrate sections through alcohol to distilled water.
2. Place slides in **Silver Nitrate, 5%** for **10-60 minutes** with exposure to light. The source of light can be bright sunlight, bright incandescent lamp or UV light. Check the slides periodically. Remove slides from the Silver Nitrate when the calcium salts are brown-black.
3. Rinse slides well in distilled water.
4. Place slides in **Sodium Thiosulfate, 5%** for **2-3 minutes**.
5. Rinse slides well in distilled water.
6. Counterstain slides in **Nuclear Fast Red** for **5 minutes**.
7. Wash slides in running tap water for 1-2 minutes.
8. Dehydrate slides in 2 changes each of 95% alcohol and 100% alcohol.
9. Clear in 2-3 changes of xylene and mount with appropriate mounting medium.

Results:

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|-------------------------|-------------|
| Calcium Salts: | Black |
| Nuclei: | Pink to Red |
| Background & Cytoplasm: | Pink |

