

Microwave Copper Stain Kit

Catalog No.	BP3004 Up To 100 test
Introduction	The Microwave Copper Stain Kit demonstrates copper. It is suitable for any well fixed paraffin embedded tissue cut at 5 microns.
Format	Kits consists of Rhodanine Stock (25ml), Modified Mayer's Hematoxylin (100 ml), and Acetate Buffer (2 x 500 ml).
Use	For copper staining.
Storage	Store at 15-30 °C.
Expiry	Do not use beyond expiration date indicated on the product label.

Working Rhodanine Solution:

Rhodanine Stock 4 ml
Acetate Buffer 46 ml

NOTE: Agitate Stock Rhodanine Solution thoroughly and immediately pipette into Acetate Buffer Solution.

Protocol

1. Deparaffinize slide in Xylene or Xylene Substitute and hydrate through alcohols.
2. Rinse slide in tap water.
3. For incubation, either:
 - a. Place slide in **Working Rhodamine Solution** and heat in a microwave oven at full power until solution is hot, but not boiling. Carefully agitate slide, cap container and allow the solution to cool on bench top to room temperature; agitate container periodically during cooling. After cooling, quickly examine slide using a microscope; repeat heating and cooling cycles as needed to reach desired copper stain intensity.
 - b. **Optional:** Place slides in **Working Rhodamine Solution** for 18 hours at 37°C
4. Rinse slide through 2 changes of **Acetate Buffer** for 1 minute each.
5. Place slide in **Modified Mayer's Hematoxylin** for 5 - 10 seconds with agitation.
6. Rinse slide through 3 changes of **Working Rhodamine Solution** for 1 minute each.
7. Dehydrate slide through 3 changes of fresh Absolute Alcohol.
8. Clear slide through 3 changes of fresh Xylene or Xylene Substitute.
9. Coverslip immediately using a permanent mounting media.

Results

Copper: **Light Brown to Red Cytoplasmic Granules**
Nuclei: **Blue**

Use of the Microwave Copper Stain Kit does not guarantee the successful outcome of any histological staining analysis.

Optimal dilution and reaction conditions to be determined by investigator usage.