

## **J-602, RHODANINE METHOD FOR COPPER** *MICROWAVE*

**Fixation:** 10% Formalin (F-113)

**Embedding:** Cut paraffin sections at 4 to 5 um. (Thicker sections may stain better)

### **PROCEDURE:**

1. Hydrate slides to distilled water.
2. Microwave in freshly prepared Rhodanine working solution for 60 seconds at 70 power. Allow slides to stand in solution for 30-60 minutes

\*To prepare Rhodanine Working Solution mix:

<b><u>Rhodanine Saturated Solution</u></b> (J-602-1)	10 ml
Distilled water	40 ml

*Note: Shake stock solution before measuring and mix solution well..filter through coarse filter paper. Shake working solution when pouring it on slides.*

3. Wash well in several changes of distilled water.
4. Stain in **Gill's Hematoxylin #3** (J-602-2A) for 1-3 minutes.
5. Rinse with distilled water.
6. Blue slides, 20 dips.
7. Rinse well with distilled water.
8. Dehydrate quickly through the alcohols, clear , and coverslip in PERMOUNT.

### **Stain Results:**

Copper	Bright red to red yellow
Nuclei	Light blue

Note: With low copper concentrations in tissue, slight fading may occur after coverslipping and the golden precipitate may be difficult to distinguish from lipofuscin.

### **References:**

Sheehan and Hrapchack, Theory and Practice of Histotechnology. St. Louis, The Mosby Company 1980 p.230