



<b>Instructions For Use</b> <b>CSK-2-IFU</b>		
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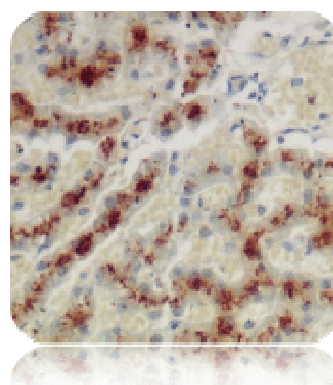
P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - [www.scytek.com](http://www.scytek.com)

# Copper Stain Kit (For Microwave)

**Description:** The Copper Stain Kit (For Microwave) is intended for the demonstration of copper deposits in tissue sections.

Copper Deposits: Light Brown to Red  
 Nuclei: Blue

**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:** Fetal Liver or a known positive.

**Contents:**

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
RSS008	Rhodanine Solution (Stock)	8 ml	2-8 °C
SAB060	Acetate Buffer Solution, pH 8.0	3 x 60 ml	18-25 °C
HMM030	Hematoxylin, Mayer's (Lillie's Mod.)	30 ml	18-25 °C
	Mixing / Dropper Vial	1 ea	

**Precautions:** Keep away from open flame.  
 Avoid contact with skin and eyes.  
 Harmful if swallowed.  
 Follow all Federal, State, and local regulations regarding disposal.  
 Use in chemical fume hood whenever possible.


**Procedure (Standard):**

**Prepare Working Rhodanine Solution in 8ml dropper vial:**

Combine:  
 1 Drop Rhodanine Solution (Stock). Shake Stock Solution immediately before adding to Acetate Buffer.  
 11 Drops Acetate Buffer Solution, pH 8.0

Storage: 2° C  25° C   
**Mixed Storage Conditions.**  
**Separate Contents.**

Doc: IFU-TemplateMixedStorageev2

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 Logan, UT 84321  
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1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Place a 125ml beaker containing 100ml of water in microwave and heat to nearly boiling.
3. After heating water, carefully lay slide across the top of the beaker containing the hot water and apply 5 drops of Working Rhodanine solution. Rising heat and steam from water will warm slide and enhance staining.
4. Allow Working Rhodanine solution to incubate on tissue section until water has cooled to room temperature. Check occasionally to ensure that the tissue section is not allowed to dry.
5. Examine slide microscopically and repeat heating/cooling cycle (steps 2-4) until desired staining intensity is achieved.
6. Rinse slide in 5-6 drops of Acetate Buffer Solution, pH 8.0 for 1 minute, shake off excess and repeat.
7. Stain tissue section with 5-6 drops of Hematoxylin, Mayer's (Lillie's Modification) for 5-10 seconds.
8. Rinse slide in 5-6 drops of Acetate Buffer Solution, pH 8.0 for 1 minute, shake off excess and repeat twice more.
9. Dehydrate slide in 3 changes of absolute alcohol.
10. Clear in 2 changes of xylene or xylene substitute, and mount in synthetic resin.

### References:

1. Sheehan, DC., Hrapchak, BB. Theory and Practice of Histotechnology; 1980, page 230.
2. Lindquist, RR. Studies on the Pathogenesis of Hepatolenticular II: Cytochemical methods for the location of copper. Arch Pathol; 1969, Volume 87: page 370.

Bulk Reagent Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)

Description:	Catalog #	Volume
Rhodanine Solution (Stock)	RSS030	30 ml
	RSS125	125 ml
Acetate Buffer Solution, pH 8.0	SAB500	500 ml
	SAB999	1000 ml
Hematoxylin, Mayer's (Lillie's)	HMM125	125 ml
	HMM500	500 ml
	HMM999	1000 ml
	HMM3800	1 Gallon

Storage: 2° C



25° C

**Mixed Storage Conditions.  
Separate Contents.**

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