



## Instructions For Use AMY-1-IFU

Rev. Date: Dec. 20, 2017

Revision: 4

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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)

# Amyloid Stain Kit (Congo Red)

**Description:** The Amyloid Stain Kit (Congo Red) is intended for use in the histological visualization of amyloid in tissue sections. Examination under a polarizing microscope results in green birefringence of amyloid.

Amyloid:	Red to Pink
Erythrocytes:	Light Orange
Eosinophil Granules:	Orange to Red
Nuclei:	Blue

**Uses/Limitations:** Not to be taken internally.  
For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use past expiration date.  
Use caution when handling these reagents.  
Non-Sterile.

**Control Tissue:** Freshly cut sections containing amyloid.  
Cut sections 6-12 microns to show smaller amyloid deposits.

**Availability/Contents:**

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
CRA500	Congo Red Solution	500 ml	18-25°C
HMM500	Hematoxylin	500 ml	18-25°C
BRT500	Bluing Reagent	500 ml	18-25°C

**Required but not included:** 95% Ethyl Alcohol  
100% Ethyl Alcohol

**Precautions:** Congo Red Solution is flammable.  
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):**

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Stain slide with Hematoxylin for 5 minutes.
3. Rinse slide in tap water.
4. Incubate slide in Bluing Reagent for 30 seconds.
5. Rinse slide in distilled water.
6. Dip slide in 95% alcohol for 5 seconds.

Storage: 18° C



25° C



ScyTek Laboratories, Inc.  
205 South 600 West  
Logan, UT 84321  
U.S.A.



EC REP EmergoEurope (31)(0) 70 345-8570  
Molsstraat 15  
2513 BH Hague, The Netherlands

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7. Pour Congo Red Solution into a coplin jar and incubate slide(s) for 20 minutes. Ensure there is enough stain to completely cover tissue. Staining in smaller volumes of Congo Red Solution by pipetting or pouring on horizontal slides may cause non-specific staining.
8. Dip twice (quickly) in 100% alcohol.
9. Dip repeatedly (4-5 dips) in clearing agent, and mount in synthetic resin.

**References:**

1. Puchtler, H, et al: On the binding of Congo Red amyloid. J. Histochem. Cytochem. Vol. 10: pages 355-363, 1962.
2. Eastwood, H. & Cole, K.R., Staining of amyloid in buffered Congo Red in 50% ethanol. Stain Technology. Vol. 46: pages 208-209, 1971.
3. Carson, F.L., Histotechnology; A Self-Instructional Text, 2<sup>nd</sup> Edition. ASCP Press, Chicago, IL. Pages 117-121, 1996.
4. Churukian, C., Improved Puchtler's Congo Red method. J. of Histotechnology. Vol. 23: pages 139-141, 2000.

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