

# 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

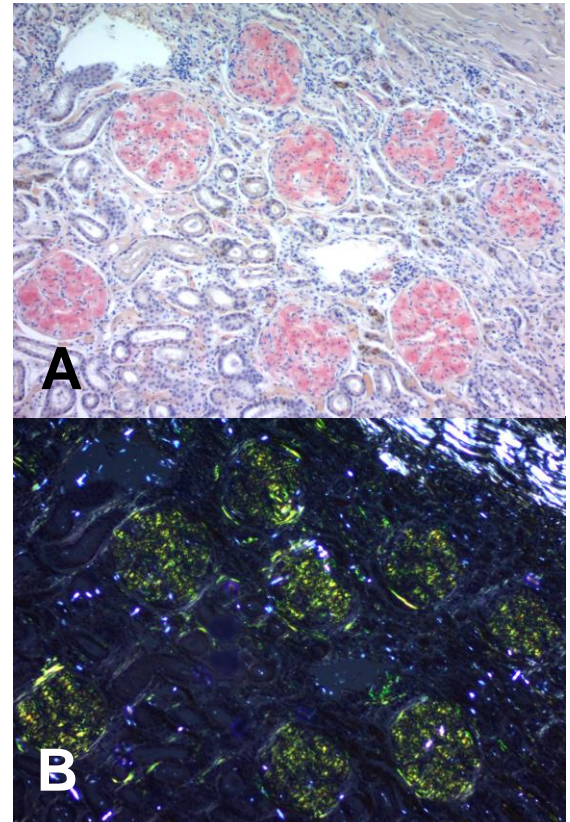
**Uses/Limitations:** Not to be taken internally.  
For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use past expiration date.  
Use caution when handling these reagents.  
Non-Sterile.

**Control Tissue:** Freshly cut FFPE sections containing amyloid. It has been reported that birefringence of pre-cut sections weakens over time. Cut sections 8-10 microns for optimal visualization of amyloid deposit birefringence.

**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

**Availability/Contents:**

<u>Item #</u>	<u>Kit Contents</u>	<u>AMY-1</u>	<u>AMY-2</u>	<u>Storage</u>
CRA	Congo Red Solution	500mls	2 x 30mls	18-25°C
HMM	Hematoxylin	500mls	30mls	18-25°C
BRT	Bluing Reagent	500mls	30mls	18-25°C




Amyloidosis in canine kidney demonstrated with Congo Red and viewed under A) Brightfield, and B) Polarized light.


**Procedure (Standard):**

1. Deparaffinize sections and hydrate to distilled water.
2. Stain slide with Hematoxylin for 5 minutes.
3. Rinse slide in tap water.

Storage: 18° C  25° C

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
 

  
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4. Incubate slide in Bluing Reagent for 30 seconds.
5. Rinse slide in distilled water.
6. Briefly rinse slide in absolute alcohol for 3-5 seconds.
7. Pour Congo Red Solution into a staining jar and place slide(s) in 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. Rinse excess stain off slide with absolute alcohol.
9. Dehydrate slide in absolute alcohol for another 30 seconds.
10. Clear 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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