

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: For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.


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

Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage Conditions</u>
Congo Red Solution	500 ml	Room Temperature
Hematoxylin	500 ml	Room Temperature
Bluing Reagent	500 ml	Room Temperature

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.

Storage: 18° C  25° C

Store Components at Room Temperature.


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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.
7. Stain slide in a coplin jar filled with Congo Red Solution for 20 minutes. Staining with small volumes 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, 2nd 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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