

Congo Red, Kit

Reference: AP0211



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INTENDED USE AND PRESENTATION:

For *in vitro* diagnostic use.

AP0120. 100 Tests.

APPLICATIONS:

The Congo Red kit is intended for use in the histological visualization of amyloid in tissue sections. Examination under a polarizing microscope results in green birefringence of amyloid.

The interpretation of the stain results is the full responsibility of the user. Any experimental result must be confirmed by a medically established diagnostic product or procedure.

PRODUCT COMPOSITION:

The Congo Red kit is composed by:

Reactivo	Nombre	Volumen	Almacenamiento
A	Hematoxilyn	30 mL	15-25 °C
B	Bluing reagent	30 mL	15-25 °C
C	Congo Red solution	30 mL	15-25 °C

METHODS AND PROCEDURE:

Principles of the method: This is an empirical method. It is still doubtful whether the formation of the link between amyloid and dye is due to proteins or to glycans in amyloid, or even to both. On the contrary, it is certain that amyloid stained with Congo red displays a marked birefringence in polarized light. From this anisotropy it has been inferred that amyloid may have an intrinsic molecular organization which is emphasized by Congo red. According to Virchow and Puchtler, amyloid is the only component in human tissues whose histochemical characteristics can be compared to those of cellulose; therefore, it has been supposed that dye and amyloid are linked by hydrogen bonds, just as it happens with the link between cellulose and Congo red.

Specimen: Paraffin-embedded tissue samples should be used.

Procedure time: 30 minutes.

Staining procedure:

- 1) Deparaffinize and hydrate the section.
- 2) Put slides in distilled water.
- 3) Stain slides with Reagent A during 5 minutes.
- 4) Wash with tap water.
- 5) Incubate with Reagent B for 30 seconds.
- 6) Wash in distilled water.
- 7) Dip slide in 95% alcohol for 5 seconds.
- 8) Stain with Reagent C during 20 minutes.
- 9) Wash in distilled water.
- 10) Dehydrate, clear in xylene and mount the preparation.

See our web site at www.gennaio-europe.com for detailed protocols ancillary reagents and support products.

EXPECTED RESULTS:

During the reaction of the different solutions of the kit with the tissue sections, resulting in the following stains:

Amyloid	Red to pink (birefringent in polarized light)
Erythrocytes	Light orange
Eosinophil granules	Orange to red
Nuclei	Blue

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for this procedure are not provided with this kit. This includes adhesive slides and cover slips, positive and negative control tissues, xylene or adequate substitute, ethanol, distilled H₂O, pipettes, Coplin jars, glass jars, moist chamber, histological baths, mounting materials, and microscope.

Buffered solutions for and other auxiliary reagents are available from Genova Scientific.

STORAGE AND STABILITY:

Store at 15-25 °C until the expiration date printed on product label. Do not use after the expiration date. Keep the containers tightly closed. After the first opening, the product is usable until the expiry date stated on label of intact product. Waste from solutions must



Catalog number



Batch code



In Vitro diagnostic medical device



Temperature limitation



Expiration date



Test number



Manufacturer



See instruction for use



Genova Scientific, S.L.
C/ Johann Gutenberg, 4F. Pol. Ind.
El Cnamo | • 41300 San Jos
de La Rinconada • Sevilla, SPAIN
Telfono: +34 954 150767
Fax: +34 955 266494

info@gennovalab.com
www.gennaio-europe.com

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be disposed under the procedure of hazardous substance. If the product is stored under different conditions from those stipulated in these technical indications, the new conditions must be verified by the user.

Genova Scientific guarantees that the product will maintain all of the described characteristics from the production date until the expiration date, as long as the product is stored and used as recommended. No other guarantees are provided. Under no circumstances is Genova Scientific obliged to cover damages caused by use of this reagent.

TROUBLESHOOTING:

If unusual staining is observed or any other deviations from the expected results, please read these instructions carefully, and if this does not solve the problem, please contact Genova Scientific's technical support department or your local distributor.

PRECAUTIONS:

Use only by qualified personnel. Read with attention the information written on the label (dangerous symbols, risks and safety phrases). Consult always the safety data sheet (MSDS) where the information about the risks of the preparation, precautionary measures during use, first aid and disposal are available. Use proper protective equipment in order to avoid contact with reagents and samples in the eyes, skin, and mucosal tissues. MSDS is available upon request.

PERFORMANCE CHARACTERISTICS:

Genova Scientific has performed studies to evaluate the functioning of this product, concluding that the product is both specific and sensitive for recommended use.

BIBLIOGRAPHY:

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

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El Caamo | • 41300 San Jose
de La Rinconada • Sevilla, SPAIN
Telefono: +34 954 150767
Fax: +34 955 266494

info@genovalab.com
www.genova-europe.com