

Picro Mallory Trichrome, Kit

Reference: AP0262



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INTENDED USE AND PRESENTATION:

For *in vitro* diagnostic use.

AP0262. 100 Tests.

APPLICATIONS:

The Picro Mallory Trichrome kit was designed to show connective tissue in histological sections.

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 Picro Mallory Trichrome kit is composed by:

Reagent	Name	Volume	Storage
A	Weigert's iron hematoxylin A	30 mL	15-25 °C
B	Weigert's iron hematoxylin B	30 mL	15-25 °C
C	Picric acid solution	30 mL	15-25 °C
D	Fuchsin ponceau polychrome solution	30 mL	15-25 °C
E	Phosphomolybdic acid solution	30 mL	15-25 °C
F	Aniline blue solution	30 mL	15-25 °C

METHODS AND PROCEDURE:

Principles of the method: In this method some components of connective tissue are selectively stained according to the different degree of affinity between dyes and tissue macromolecules. In particular, connective tissue is markedly acidophil because of the presence of many basic groups; therefore it shows a strong affinity to acid dyes (picric acid and orange G) and a medium affinity to weak basic amphoteric dyes (acid fuchsin and ponceau xylydine). A central role is played by phosphomolybdic acid which acts as a bridge between tissue structures it attaches to (collagen fibrils, cell membranes) and aniline blue, a markedly basic amphoteric dye.

Specimen: Paraffin-embedded tissue samples should be used.

Procedure time: 35 minutes.

Staining procedure:

- 1) Deparaffinize and hydrate for paraffin section.
 - 2) Put the slide in distilled water.
 - 3) In a separate tube mix equal parts of **Reagent A** and **Reagent B** and leave under section 10 minutes.
 - 4) Rinse in distilled water.
 - 5) Wash in running tap water for 5 minutes.
 - 6) Put on the section 2-5 drops of **Reagent C** and leave to act 2 minutes.
 - 7) Rinse in distilled water.
 - 8) Put on the section 2 -5 drops of **Reagent D** and leave to act 1 minute.
 - 9) Rinse in distilled water.
 - 10) Put on the section 2-5 drops of **Reagent E** and leave to act 15 minutes.
 - 11) Rinse in distilled water.
 - 12) Put on the section 2-5 drops of **Reagent F** and leave to act 1 minute.
 - 13) Dehydrate in alcohols of increasing clear in xylene and mount preparation.
- See our web site at www.gennova-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:

Nuclei	Dark brown
Collagen fibers	Dark blue
Ground substance of cartilage, bone, mucus, basophil granules of hypophysis and amyloid	Varying shades of blue
Fibroglia, neuroglia, axis cylinders and fibrine	Red
Acidophil granules of hypophysis	Orange
Myelin and erythrocytes	Yellow
Elastic fibers	From pale pink to yellow

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



Catalog number



Batch code



In Vitro diagnostic medical device



Temperature limitation



Expiration date



Test number



Manufacturer



See instruction for use



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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 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:

Lendrum AC. New trichromic staining method. J Path and Bact 1935; 49: 415-416
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Lillie RD. Further experiments with the Masson trichrome modification of Mallory's connective tissue stain. Stain Technol 1940; 15:82.
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