

Masson Trichrome Goldner, Kit
(with aniline blue)
Reference: AP0510



1 of 2

INTENDED USE AND PRESENTATION:

For *in vitro* diagnostic use.

AP0510. 100 Tests.

APPLICATIONS:

The Masson Trichrome Goldner (with aniline blue) kit is a recommended method for connective tissue. It demonstrates gametes, nuclei, neurofibrils, neuroglia, collagen, keratin, intracellular fibrils and negative image of Golgi apparatus. It is very suitable for black and white microphotographs.

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 Masson Trichrome Goldner (with aniline blue) 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	Biebrich scarlet / acid fuchsin solution	30 mL	15-25 °C
D	Phosphomolybdic/phosphotungstic acid solution	30 mL	15-25 °C
E	Aniline blue solution	30 mL	15-25 °C
F	Acetic acid solution	30 mL	15-25 °C
G	Bouin's Fluid	30 mL	15-25 °C

METHODS AND PROCEDURE:

Principles of the method: Three different stains are used: Weigert's iron hematoxylin for nuclei, a mixture of acid dyes (Biebrich scarlet-acid fuchsin) for cytoplasm and aniline blue for collagen.

Specimen: Paraffin-embedded tissue samples should be used.

Procedure time: 50 minutes.

Staining procedure:

- 1) Deparaffinize and hydrate to distilled water. Treat with Bouin's fluid (Reagent G) if sections are formalin fixed for one hour at 56° C or overnight at room temperature. Let stand for 10 minutes to cool. Omit step if it was initially fixed in Bouin.
 - 2) Wash in running water until sections are clear.
 - 3) Rinse in distilled water.
 - 4) Stain in Weigert's iron hematoxylin for 10 minutes (to be reconstituted in equal part. Please note after reconstitution solution can be use for maximum two weeks).
 - 5) Wash in running water for 2 minutes.
 - 6) Rinse in distilled water.
 - 7) Stain in Reagent C for 15 minutes.
 - 8) Rinse in distilled water.
 - 9) Differentiate in Reagent D for 10-15 minutes (Check to see that collagen is not red, repeat differentiation if collagen retains the red colour).
 - 10) Without rising, apply Reagent E for 5-10 minutes.
 - 11) Rinse slide in distilled water.
 - 12) Apply Acetic Acid Solution (1%) to slide for 3-5 minutes.
 - 13) Dehydrate in alcohols of increasing clear in xylene and mount.
- 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	Black/Blue
Muscle fibers	Red
Collagen	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,



Catalog number



Temperature limitation



Manufacturer



Batch code



Expiration date



See instruction for use



In Vitro diagnostic medical device



Test number



Gennova Scientific, S.L.
C/ Johann Gutenberg, 4F. Pol. Ind.
El Caamo I • 41300 San Jose
de La Rinconada • Sevilla, SPAIN
Telefono: +34 954 150767
Fax: +34 955 266494

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

Masson Trichrome Goldner, Kit
(with aniline blue)
Reference: AP0510



2 of 2

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:

Sheehan, DC., Hrapchak, BB. Theory and Practice of Histotechnology; 1980, page 190.
A.F.I.P. Laboratory Methods in Histotechnology; 1992, pages 132-133.
Bekeredjian R., Walton C.B., MacCannell K.A., Ecker J., Kruse F., et al. Conditional HIF-1 α Expression Produces a Reversible Cardiomyopathy. PLoS ONE 5(7): e11693. Doi:10.1371/journal.pone.0011693. (2010)
Masson PJ. Some histological methods: trichrome stainings and their preliminary technique. Tech Methods 1929; 12:75-90.
Lillie RD. Staining of connective tissue. Arch Pat 1951; 54:220-223.
Goldner J. A modification of the Masson trichrome technique. Am J Path 1938; 14:247-249.
Lillie RD. Further experiments with the Masson trichrome modification of Mallory's connective tissue stain. Stain Technol 1940; 15:82.
Armed Forces Institute of Pathology: Laboratory Methods in histotechnology. Washington D.C., A.F.I.P., 1994.

F01IT04_V2R1012_AP0510_English



Catalog number



Temperature limitation



Manufacturer



Batch code



Expiration date



See instruction for use



In Vitro diagnostic medical device



Test number



Genova Scientific, S.L.
C/ Johann Gutenberg, 4F. Pol. Ind.
El Caamo I • 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