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TECHNICAL DATA SHEET 872

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Masson's Trichrome Stain Kit

DESCRIPTION

This method is used for the detection of collagen fibers in tissues such as skin, heart, etc. on formalin-fixed, paraffin-embedded sections and may be used for frozen sections as well. Collagen fibers stained blue, nuclei stained black and cytoplasm, muscle, erythrocytes stained red.

MASSON'S TRICHROME KIT CONTENTS

500ml each of the following:

- Bouin's Fixative
- Weigert's Iron Hematoxylin
- Biebrich Scarlet - Acid Fuchsin Solution
- Phosphotungstic/Phospholybdic Acid
- Aniline Blue
- 1% Acetic Acid

PROCEDURE

- Mordant in Bouin's solution, microwave 1 minute, allow to stand 15 minutes. (*Conventional method: Mordant in Bouin's solution, 60°C for 1 hour*)
- Wash in running tap water to remove the picric acid for 5 minutes.
- Weigert's working hematoxylin for 10 minutes.
- Wash in running tap water for 5 minutes, rinse in distilled water.
- Biebrich Scarlet - Acid Fuchsin Solution for 5 minutes.
- Rinse in distilled water.
- Phosphotungstic/phosphomolybdic acid for 10 minutes, discard solution.
- Transfer directly into Aniline blue for 5 minutes.
- Rinse in distilled water.
- 1% Acetic acid for 1 minute, discard solution, rinse in distilled water.
- Dehydrate, clear and coverslip.

RESULTS

Collagen Fibers	Blue
Nuclei	Black
Cytoplasm	Red
Erythrocytes	Red

NOTES

- Light green may be substituted for Aniline blue.
- 5% phosphotungstic acid for 5 minutes, must be substituted when using Light green.
- When staining liver biopsies, the collagen is better light blue than dark blue.

REFERENCES

- Sheehan D, Hrapchak B, Theory and practice of Histotechnology, 2nd Ed, 1980, pp 189-190, Battelle Press, Ohio
- Bancroft J, Stevens A, Theory and Practice of Histological Techniques, 2nd Ed, 1982, pp 131-135, Churchill-Livingston, NY
- Luna L, Manual of Histologic Staining Methods of the AFIP, 3rd Ed, 1968, pp 94-95, McGraw-Hill, NY
- Carson F, Histotechnology A Self-Instructional Text, 1st Ed, 1990, pp 142-143, ASCP, Ill

SAFETY

Work in a well ventilated area, wear gloves (nitrile), lab coat and goggles. Avoid contact and inhalation. Picric acid: can become explosive if allowed to dry out. Toxic through skin exposure.

STORAGE AND HANDLING

Storage

Store at room temperature

Handling

Glove, chemical goggles & fume hood

ORDERING INFORMATION

Cat. #	Description	Sizes
25088	Masson's Trichrome Stain Kit	1 kit

Order online anytime at www.polysciences.com

TO ORDER

In the U.S. Call: 1(800) 523-2575 • (215) 343-6484
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