

Instructions For Use KT 037-IFU

3. Rinse slide quickly in two changes of Acetic Acid Solution (0.5%).

4. Rinse slide using absolute alcohol

Document #: DS-3022-C

Release Date: 07/02/2024

6616 Owens Drive, Pleasanton, CA 94588 U.S.A. - Tel. (925) 484-3350 - Fax (925) 484-3390 - www.dbiosys.com

Picro-Sirius Red Stain Kit (For Collagen)

Description and Principle

The Picro-Sirius Red Stain Kit (For Collagen) is intended for use in the histological visualization of muscle and collagen fibers in tissue sections. The PSR stain may be viewed using standard light microscopy or polarized light resulting in birefringence of collagen fibers.

Collagen and reticular fibers are selectively stained by Sirius Red in a strongly acidic solution saturated with picric acid. Sirius Red binds to collagen in a highly ordered parallel manner enhancing the natural birefringent properties of collagen.

Expected Results

Light Microscopy Collagen: Muscle Fibers: Cytoplasm:

Polarized Light Microscopy

Collagen: Yellow-Orange and Green Birefringence

Red

Yellow

Yellow

Kit Contents	Storage
1. Picro-Sirius Red Solution	15-30°C
2. Acetic Acid Solution (0.5%)	15-30°C

<u>Suggested Controls (not provided)</u> Lung, Uterus, Muscle, Kidney.

Uses/Limitations

For In-Vitro Diagnostic use only. Do not use if reagents become cloudy or precipitate Do not use past expiration date. Use caution when handling reagents. Non-Sterile Intended for FFPE sections cut at 5-10µm. This procedure has not been optimized for frozen sections. Frozen sections may require protocol modification.

Storage

Store kit and all components at room temperature (15-30°C).

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements. If there is any serious incident that has occurred in relation to the device, please contact the manufacturer: Diagnostic BioSystems Technical Support at (925) 484-3350, extension 2 or

techsupport@dbiosys.com. If required, please report to the Competent Authority of the Member State in which the user and/or patient is established.

Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.

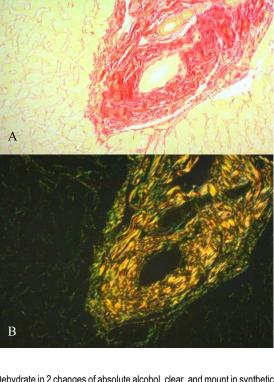
2. Apply adequate Picro-Sirius Red Solution to completely cover tissue section and incubate for 60 minutes.

Diagnostic BioSystems 6616 Owens Drive Pleasanton, CA, 94588 Tel: (925) 484 3350 www.dbiosys.com





MedEnvoy Switzerland Gotthardstrasse 28 6302 Zug Switzerland



5. Dehydrate in 2 changes of absolute alcohol, clear, and mount in synthetic resin.

References

 Puchtler H., Waldrop F.S., Valentine L.S. Polarization microscopic studies of connective tissue stained with picro-sirius red FBA. Beitr Path. 1973; 150, pages 174-187.

 Junqueira L.C.U., Bignolas G., Brentani R.R. Picrosirius staining plus polarization microscopy, a specific method for collagen detection in tissue sections. Histochemistry J. 1979, 11, pages 447-455.

3. Whittaker P. Polarized light microscopy in biomedical research. Microscopy and Analysis 1995; 44, pages 15-17.



MedEnvoy Global B.V. Prinses Margrietplantsoen 33 - Suite 123 2595 AM The Hague The Netherlands

