

Instructions For Use

SRC-1-IFU

Rev. Date: Feb. 28, 2012

Revision: 1

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

Picro-Sirius Red Stain Kit (For Cardiac Muscle)

Description:

The Picro-Sirius Red Stain Kit (For Cardiac Muscle) is intended for use in the histological visualization of thin septa and collagen fibers. This modification of the Picro-Sirius Red stain eliminates the yellow cytoplasmic staining that can obscure thin collagenous septa. Using this procedure easily allows viewing of collagenous septa as thin as 0.2-0.5 microns. The PSR stain may be viewed using standard light microscopy or polarized light resulting in birefringence of the collagen fibers to distinguish between type I and type III.

Light Microscopy

Collagen: Red Septa: Red

Cytoplasm: Colorless to Slightly Yellow

Polarized Light Microscopy

Type I (Thick fibers)

Type III (Thin fibers)

Yellow-Orange Birefringence

Green Birefringence

Uses/Limitations:

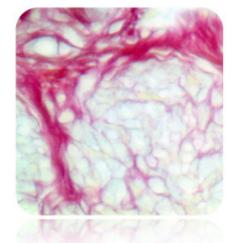
Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagents become cloudy.
Do not use past expiration date.

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Use caution when handling reagents.

Non-Sterile.

Control Tissue: Cardiac Muscle

Uterus Lung Kidney



Ordering information regarding individual components on back page!

Availability/Contents:

Item #	Kit Contents	<u>Volume</u>	<u>Storage</u>
PQA250	Phosphomolybdic Acid Solution (0.2%)	250 ml	18-25℃
SRS250	Picro-Sirius Red Solution	250 ml	18-25℃
AAD250	Acetic Acid Solution (0.5%)	250 ml	18-25℃

Precautions: Avoid contact with skin and eyes.

Harmful if swallowed.

Follow all Federal, State, and local regulations regarding disposal.

Use in chemical fume hood whenever possible.

Storage: 18° C



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Doc: IFU-Template18-25rev2



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Procedure:

- Deparaffinize sections if necessary and hydrate to distilled water.
- 2. Apply adequate Phosphomolybdic Acid Solution (0.2%) to completely cover tissue section and incubate for 1-5 minutes.
- 3. Dip slide one time in distilled water.
- 4. Apply adequate Picro-Sirius Red Solution to completely cover tissue section and incubate for 60-90 minutes.
- 5. Rinse slide quickly in two changes of Acetic Acid Solution (0.5%).
- 6. Rinse slide using absolute alcohol.
- 7. Dehydrate in 2 changes of absolute alcohol, clear, and mount in synthetic resin.

References:

- 1. 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.
- 2. 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. Dolber, P.C., Spach, M.S. Picrosirius red staining of cardiac muscle following phosphomolybdic acid treatment. Stain Technology, January 1987, Volume 62(1): pages 23-26.
- Whittaker, P., Kloner, R.A., Boughner, D.R., Pickering, J.G. Quantitative assessment of myocardial collagen with picrosirius red and circulary polarized light. Basic Research in Cardiology. 1994, Volume 89, Number 5, pages 397-410. DOI: 10.1007/BF00788278
- 5. Whittaker P. Polarized light microscopy in biomedical research. Microscopy and Analysis 1995; 44, pages 15-17.

Bulk Reagent Ordering Information and Current Pricing at www.scytek.com

Description:	Catalog #	Volume
Phosphomolybdic Acid Solution (0.2%)	PQA250 PQA500 PQA999	250 ml 500 ml 1000 ml
Picro-Sirius Red Solution	SRS250 SRS500	250 ml 500 ml
Acetic Acid Solution	SRS999 AAD250	1000 ml
	AAD500 AAD999	500 ml 1000 ml

