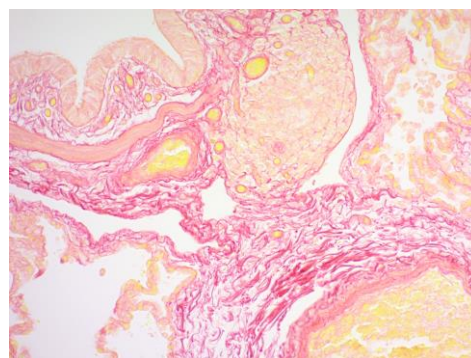


## Picro-Sirius Red Stain Kit (For Collagen)

**Description:** The Picro-Sirius Red Stain Kit (For Collagen) is intended for use in the histological visualization of collagen I and III fibers in addition to muscle in tissue sections. 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.

**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. Use caution when handling reagents. Protocol has not been tested on, and may not be suitable for frozen sections.  
 Non-Sterile.

**Control Tissue:** Lung  
 Uterus  
 Muscle  
 Kidney



**Results:**

**Light Microscopy**

Collagen:	Red
Muscle Fibers:	Yellow
Cytoplasm:	Yellow

**Polarized Light Microscopy**

Type I (Thick fibers)	Yellow-Orange Birefringence
Type III (Thin fibers)	Green Birefringence

**Kit Contents:**

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
SSC-SRS250	Picro-Sirius Red Solution	250 ml	18-25°C
SSC-AAD250	Acetic Acid Solution (0.5%)	250 ml x 2	18-25°C

**For Information regarding ordering individual components, please contact us at: 800-442-3573.**

**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.

**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.
3. Rinse slide quickly in two changes of Acetic Acid Solution (0.5%).
4. Rinse slide using absolute alcohol.
5. 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. Whittaker P. Polarized light microscopy in biomedical research. Microscopy and Analysis 1995; 44, pages 15-17.



Lot-to-Lot Validation Form  
PICRO-SIRIUS RED STAIN (For Collagen) Catalog: SSK-PSR

Kit Lot Number: \_\_\_\_\_  
Kit Expiration Date: \_\_\_\_\_  
Date Tested: \_\_\_\_\_  
Control Tissue (#) \_\_\_\_\_  
Approved for Use: Y/N \_\_\_\_\_  
Date put into use: \_\_\_\_\_

If not approved,  
corrective actions  
taken: \_\_\_\_\_

Approved by: \_\_\_\_\_

Kit Component	Lot #
Picro-Sirius Red Solution	_____
Acetic Acid, (0.5%)	_____

Replacement Component if used	Replacement Date	Lot #	Accepted Y/N	Comments
Picro-Sirius Red Solution				
Acetic Acid, (0.5%)				
Approved by: _____				

StatLab is providing this form to assist with reagent lot validation as stated in CLIA'88 Standard 493.1256-For reagent(s), the laboratory must do the following: Check each batch (prepared in-house), lot number (commercially prepared) and shipment of reagents, stains, and identification systems (systems using two or more substrates or two or more reagents, or a combination) when prepared or opened for positive and negative reactivity, if applicable.