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|---|-------------|-------------|
| <b>Instructions For Use</b><br><b>PSR-1-IFU</b> |             |             |
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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](http://www.scytek.com)

# 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.

**Light Microscopy**

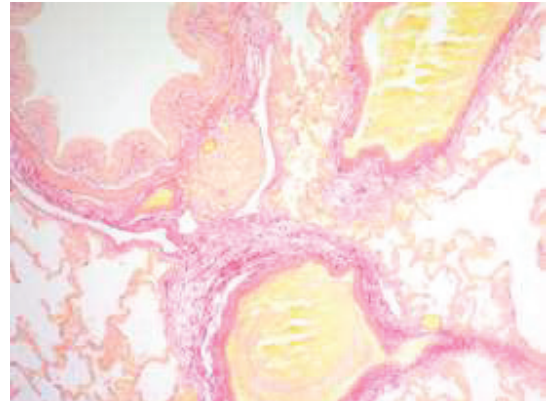
|                |        |
|----------------|--------|
| Collagen:      | Red    |
| Muscle Fibers: | Yellow |
| Cytoplasm:     | Yellow |

**Polarized Light Microscopy**

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

**Uses/Limitations:**

Not to be taken internally.  
 For In-Vitro Diagnostic use only.  
 Histological applications.  
 Do not use if reagents become cloudy.  
 This protocol has not been tested on and may not be suitable with frozen sections  
 Do not use past expiration date.  
 Use caution when handling reagents.  
 Non-Sterile.



**Control Tissue:**

Lung  
 Uterus  
 Muscle  
 Kidney


**Availability/Contents:**


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

Ordering information regarding individual components on back page!

**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  25° C

 ScyTek Laboratories, Inc.  
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### 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.

Bulk Reagent Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)

| Description:              | Catalog # | Volume  |
|---------------------------|-----------|---------|
| Picro-Sirius Red Solution | SRS250    | 250 ml  |
|                           | SRS500    | 500 ml  |
|                           | SRS999    | 1000 ml |
| Acetic Acid Solution      | AAD250    | 250 ml  |
|                           | AAD500    | 500 ml  |
|                           | AAD999    | 1000 ml |

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