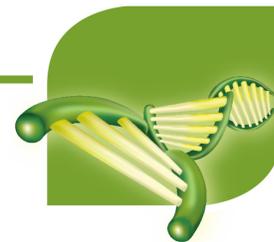


Picrosirius Red Stain Kit



Stain for Collagen Types I and III



Cat.#: 24901

Our **Picrosirius Red Stain** binds specifically to collagen fibrils of varying diameter to distinguish collagen Type I from Type III. Picrosirius Red Stain will quantify the amount of collagen in a given area of myocardial tissue. (*i.e. the collagen area fraction*)

- Collagenous structures of the mandible stain brilliant red
- Unlike sections stained with hematoxylin and eosin alone, dentinal tubules, Sharpey's fibers and other structures can be seen clearly after using Picrosirius Red Stain procedure
- Under polarized light, collagen fibers can be specifically identified and their orientation determined.

Picrosirius Red Stain Protocol

FIXATION

Method is most frequently used on paraffin sections of objects fixed adequately (at least 24 hours, but ideally 1 or 2 weeks) in a neutral buffered formaldehyde solution. Fixation is not critical.

PROCEDURE

1. Deparaffinize and hydrate to distilled water
2. Stain in Weigerts Hematoxylin for 8 minutes (*if Weigerts hematoxylin is not used, go directly to step four*)
3. Rinse well in distilled water
4. Place in **Solution A** for 2 minutes
5. Distilled water rinse
6. Place in **Solution B** for 60 minutes
7. Place in **Solution C** for 2 minutes
8. 70% Ethanol for 45 seconds
9. Dehydrate, clear and mount

RESULTS

Stains fibrillar type I and type III collagen.

Collagen = Red

Type I = Yellow

Type III = Green

ORDERING INFORMATION

Cat. #	Description	Sizes
24901	Picrosirius Red Stain Kit	250ml, 500ml

TO ORDER

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

In The U.S. Fax: 1(800) 343-3291 • (215) 343-0214

In Germany Call: +(49) 6221-765767

In Germany Fax: +(49) 6221-764620

Order online anytime at www.polysciences.com

References:

1. Puchtler H, Waldrop FS, Valentine LS. Polarization microscopic studies of connective tissue stained with picro-sirius red FBA. *Beitr Path* 1973; 150, 174-187
2. Junqueira LCU, Bignolas G, Brentani RR. Picrosirius staining plus polarization microscopy, a specific method for collagen detection in tissue sections. *Histochem J* 1979; 11, 447-455
3. Whittaker P. Polarized light microscopy in biomedical research. *Microscopy and Analysis* 1995; 44, 15-17
4. Whittaker P, Kloner RA, Boughner DR, Pickering JG. Quantitative assessment of myocardial collagen with picrosirius red staining and circularly polarized light. *Basic Research in Cardiology* 1994; 89, 397-410