ab150681
Picro Sirius Red Stain Kit (Connective Tissue Stain)

For the histological visualization of collagen I and III fibers in addition to muscle in tissue sections.

This product is for research use only and is not intended for diagnostic use.
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1. Overview

The Picro-Sirius Red Stain Kit (Connective Tissue Stain) (ab150681) 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.

Staining Interpretation:

**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

**Control Tissue:**
Lung, Uterus, Muscle, Kidney.
2. Materials Supplied and Storage

Store kit at room temperature immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt, if components have not been reconstituted.

Keep away from open flame and refer to the safety datasheet.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Storage temperature (before prep)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picro-Sirius Red Solution</td>
<td>250 mL</td>
<td>RT</td>
</tr>
<tr>
<td>Acetic Acid Solution (0.5%)</td>
<td>2 x 250 mL</td>
<td>RT</td>
</tr>
</tbody>
</table>
3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Absolute alcohol
- Distilled water
4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide: www.abcam.com/assaykitguidelines

For typical data produced using the assay, please see the assay kit datasheet on our website.
5. Staining Protocol

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.

5.1 Deparaffinize sections if necessary and hydrate in distilled water.
5.2 Apply adequate Picro-Sirius Red Solution to completely cover the tissue section and incubate for 60 minutes.
5.3 Rinse slide quickly in 2 changes of Acetic Acid Solution.
5.4 Rinse slide in absolute alcohol.
5.5 Dehydrate in 2 changes of absolute alcohol.
5.6 Clear slide and mount in synthetic resin.
6. FAQs / Troubleshooting

General troubleshooting points are found at www.abcam.com/assaykitguidelines.
7. Notes
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