## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Picro Sirius Red Stain Kit (Connective Tissue Stain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay time</td>
<td>1h 00m</td>
</tr>
<tr>
<td>Product overview</td>
<td>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 picro sirius red staining may be viewed using standard light microscopy, or with polarized light resulting in birefringence of the collagen fibers to distinguish between type I and type III collagen fibers. Picro sirius red staining protocol summary: - deparaffinize sections if necessary and hydrate in distilled water - cover sections in picro-sirius red solution and incubate for 60 min - wash slide with acetic acid solution - wash slide with absolute alcohol - dehydrate, clear and mount slide</td>
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</tbody>
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## Notes

**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.

**Tested applications**

Suitable for: Histology

## Properties

**Storage instructions**

Store at room temperature. Please refer to protocols.
**Components**

<table>
<thead>
<tr>
<th></th>
<th>100 tests</th>
<th>100 tests</th>
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<tbody>
<tr>
<td>Acetic Acid Solution</td>
<td>2 x 250ml</td>
<td>2 x 250ml</td>
</tr>
<tr>
<td>Picro Sirius Red Solution</td>
<td>1 x 250ml</td>
<td>1 x 250ml</td>
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**Applications**

Our [Abpromise guarantee](#) covers the use of [ab150681](#) in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Histology</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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</table>

**Images**

ab150681 Picro Sirius Red Stain Kit (Connective Tissue Stain) staining formalin-fixed-paraffin embedded human skeletal muscle.
ab150681 (Picro Sirius Red stain) staining collagen (red), muscle fibres (yellow), cytoplasm (yellow) and red blood cells (yellow) in formalin fixed paraffin embedded normal human colon.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.

ab150681 staining mouse liver sections in control (saline group) showing normal lobular structure; in CCl4 treated showing extensive collagen deposition and bridging fibrosis; and in CCl4-AND treated mice which showed decreased collagen deposition.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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