ab150683

Phosphotungstic Acid Hematoxylin (PTAH) Stain Kit (Connective Tissue Stain)

Instructions for Use

For the Histological Visualization of Collagen, Striated Muscle and Glial Fibers.

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

The Phosphotungstic Acid Hematoxylin (PTAH) Stain Kit (Connective Tissue Stain) for Microwave is intended for use in the histological visualization of striated muscle, glial fibers and collagen without using Zenker’s Fixative containing Mercuric Chloride. This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

Staining Interpretation:

- Fibrin, Striated Muscle, Glial Fibers: Blue
- Collagen: Brown/Red
- Nuclei: Blue

Control Tissue:

Striated Muscle.
2. Kit Contents

<table>
<thead>
<tr>
<th>Components</th>
<th>Amount</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Chloride Solution (10%)</td>
<td>500 ml</td>
<td>RT</td>
</tr>
<tr>
<td>Ferric Ammonium Sulfate</td>
<td>125 ml</td>
<td>RT</td>
</tr>
<tr>
<td>PTAH Solution</td>
<td>125 ml</td>
<td>RT</td>
</tr>
</tbody>
</table>

3. Storage and Handling

For storage temperatures please see the Table

Keep away from open flame. Refer to the Safety Data Sheet.

4. Additional Materials Required

500 Watt microwave oven

Absolute Alcohol

Xylene or Xylene Substitute
5. Staining Protocol

1. Deparaffinize sections if necessary and hydrate in distilled water.
2. Place slide in fresh distilled water for 1 minute.
3. Pour 50 ml of Zinc Chloride Solution into a plastic coplin jar and heat in the microwave for 20 seconds on high power. Remove jar and stir the solution to equalize the temperature. Return the jar to the microwave and heat on high power for a further 10 seconds. Stir the solution again.
4. Place the slide in the coplin jar and incubate for 15 minutes.
5. Rinse slide in running tap water for 1 minute.
6. Rinse in distilled water for 1 minute.
7. Place slide in 25 ml Ferric Ammonium Sulfate Aqueous Solution, heat in microwave for 15 seconds on high power and incubate for 2 minutes.
8. Rinse slide in running tap water for 2 minutes.
9. Rinse in distilled water for 1 minute.
10. Heat 25 ml PTAH Solution in the microwave for 20 seconds on high power. Remove and agitate to equalize the temperature. Place the slide in the stain, agitate and incubate for 15 minutes. Reheat the solution for a further 10 seconds on high power, agitate and incubate the slide for another 15 minutes.
11. Differentiate the section in 95% Reagent Alcohol. Check using a microscope for proper differentiation.
12. Dehydrate in 3 changes of Absolute Alcohol.
13. Clear in 3 changes of Xylene or Xylene Substiture and mount in synthetic resin.

6. Reference Image

![Reference Image](image)

**Figure 1** Staining using ab150683 – Phosphotungstic Acid Hematoxylin (PTAH) Stain Kit

For further technical questions please do not hesitate to contact us by email (technical@abcam.com) or phone (select “contact us” on www.abcam.com for the phone number for your region).
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