ab150666
Copper Stain (For Microwave)

For the Differentiation of Cells in Vaginal Smears for the Detection of Vaginal, Uterine and Cervical Cancer.

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

Copper Stain (For Microwave) (ab150666) is intended for the demonstration of copper deposits in tissue sections.

Staining Interpretation:

<table>
<thead>
<tr>
<th>Copper Deposits</th>
<th>Light Brown to Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuclei</td>
<td>Blue</td>
</tr>
</tbody>
</table>

**Control Tissue:** Fetal Liver or a known positive.
2. Materials Supplied and Storage

For storage temperatures please check below for storage for individual components. Kit can be stored for 1 year from receipt.

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>Rhodamine Stock Solution</td>
<td>30 mL</td>
<td>4°C</td>
</tr>
<tr>
<td>Acetate Buffer Solution (pH 8.0)</td>
<td>2 x 500 mL</td>
<td>RT</td>
</tr>
<tr>
<td>Hematoxylin (Modified Mayer’s solution)</td>
<td>125 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:

- Staining Jar
- Absolute Alcohol.
- Xylene or Xylene Substitute.
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 Prepare Working Rhodamine Solution:

1. Combine the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhodamine Stock Solution</td>
<td>4</td>
</tr>
<tr>
<td>Acetate Buffer Solution (pH 8.0)</td>
<td>46</td>
</tr>
</tbody>
</table>

△ Note: Shake Rhodamine Stock Solution immediately before adding to Acetate Buffer.

5.2 Procedure:

1. Deparaffinize sections if necessary and hydrate in distilled water.
2. Place loosely capped staining jar containing Working Rhodamine in microwave and heat solution until warm but not hot.
3. Place slide in warmed Working Rhodamine Solution and microwave at full power until solution is hot. Do not allow solution to boil.
4. Cap container, gently agitate to mix evenly, and allow solution to cool on countertop to room temperature with occasional agitation.
5. Examine slide microscopically and repeat heating/cooling cycle (steps 3 and 4) until desired staining intensity is achieved.
6. Rinse slide in two changes of Acetate Buffer Solution for 1 minute each.
7. Incubate slide in Hematoxylin for 5-10 seconds with agitation.
8. Rinse slide in 3 changes of Acetate Buffer Solution (pH 8.0) for 1 minute each.
9. Dehydrate slide in 3 changes of absolute alcohol.
10. Clear in two changes of xylene or xylene substitute and mount in synthetic resin.
6. FAQs / Troubleshooting

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

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