AFOG (Acid Fuchsin Orange G) stain

Staining protocol for renal biopsies

Manufacturer: Diapath S.p.A.

Use
Reagents for diagnostic use in vitro

<table>
<thead>
<tr>
<th>Code</th>
<th>Test</th>
<th>Reagents</th>
<th>Code</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bouin fixative</td>
<td>P010AA</td>
<td>1x100ml</td>
</tr>
<tr>
<td>010307</td>
<td>Iron Hematoxylin acc. Weigert - reagent A</td>
<td>C022AA</td>
<td>1x30ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Iron Hematoxylin acc. Weigert - reagent B</td>
<td>C023AA</td>
<td>1x30ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jenkins reagent</td>
<td>D001AA</td>
<td>1x30ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phosphomolibdic Acid acc. Masson</td>
<td>G001AA</td>
<td>1x30ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AFOG (Acid Fuchsin Orange G)</td>
<td>C120AA</td>
<td>1x30ml</td>
<td></td>
</tr>
</tbody>
</table>

Description

The kit supplies reagents for AFOG stain of renal biopsies, it can be used instead of P.A.S.M. staining protocol, because of combines staining capacity of blue aniline, acid fuchsin and Orange G. Bouin (or picroformol) is the suggested fixative; if the tissue is fixed with formalin, the muscle turns red instead of green.

Preparation and specimen kind

- Preparation: Paraffin section
- Suggested fixatives: Bouin fixative, formalin
- Control: kidney
- Storage temperature: +15º/ +25ºC
- Procedure time: 3h 40 min
- Critical step: none

Staining protocol

Drain reagents directly on section in a way to cover it completely.
To avoid section excessive drying, use an incubator wet box.

1. Deparaffinize and hydrate to distilled water
2. Cover the section with Bouin fixative for 3 hour at +56ºC. Leave it cool at room temperature for 10 minutes.
3. Wash in distilled water
5. Wash in running tap water for 5 minutes
6. Cover the section with Jenkins reagent for 4-10 seconds
7. Wash quickly in distilled water
8. Cover the section with Phosphomolibdic Acid acc. Masson for 5 minutes
9. Wash quickly in distilled water
10. Cover the section with AFOG (Acid Fuchsin Orange G) for 5-10 minutes
11. Wash in distilled water for 1 minutes
12. Dehydrate quickly, clear and mount in balsam
## Results

<table>
<thead>
<tr>
<th>Component</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connective tissue</td>
<td>Blue</td>
</tr>
<tr>
<td>Muscle</td>
<td>Green</td>
</tr>
<tr>
<td>Basal membrane</td>
<td>Fuchsia</td>
</tr>
<tr>
<td>Nuclei</td>
<td>Black</td>
</tr>
<tr>
<td>Fibrin</td>
<td>From yellow to red</td>
</tr>
<tr>
<td>Erythrocytes</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

## Instructions of use

To avoid mistakes, the product should be used by qualified and trained staff. Professional use product. The guidelines concerning safety on the workplace must be applied according to current regulations. The tools used for diagnosis must be suitable for diagnostic use in laboratory. The diagnosis should be performed only by authorized, trained and competent staff. Control sections should be used during each test to avoid incorrect results.

## Storage

Store the product according to the specifications listed on the label. The product, if opportunely stored and integrally packed, is stable up to the expiry date reported on the label. Do not use after expiration date.

If the reagent is not stored as recommended, its performance may change and must be validated by the user. After opening, the reagent is stable up to expiration date but only if stored in its container and in accordance with the specifications listed on the label. It is recommended to close the container tightly after the use.

## Disposal instruction

The expired and/or unused product must be disposed according to local waste regulations, based on danger classification on the label and after possible contaminations evaluation. In some cases it may be necessary an analytical evaluation to determine the correct waste classification and the danger features.

## Labeling legend

- **LOT**: Batch n.
- **Manufacturer**
- **Storage temperature limits**
- **REF**: Product code
- **Expiry date**
- **In vitro diagnostic medical device**
- **Photosensitive**

For more information see the MSDS.