**UW Medicine - Pathology**

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**P**eriodic **A**cid **S**chiff Reaction for Fungus Procedure

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| Adopted Date: 06/20/05Review Date: 09/03/10Revision Date: 04/05/11 |

PURPOSE

To identify the method for performing the special stain of Periodic Acid Schiff Reaction for Fungus.

PROCEDURE

**Fixation:**

Alcoholic-formalin or 10% buffered neutral formalin

**Sectioning:**

 Paraffin sections from 3-5 microns

**Solutions:**

(Use Type II de-ionized water for all solution preparation.)

**1.0% Periodic Acid**

Periodic acid 1.0gms

Distilled water 100mls

 Make fresh before use.

**Schiff's Reagent**

Richard Allan Scientific. Keep Refrigerated.

**Stock Light Green**

Light Green, SF Yellowish 0.2gms

Distilled Water. 100mls

Glacial Acetic Acid Concentrate 0.2mls

*Working:*

Light Green (Stock) 10mls

Distilled Water 40mls

**Procedure:**

Use control slide.

1. De-paraffinize and hydrate to distilled water.
2. Oxidize in 1.0% periodic acid for five minutes.
3. Rinse in distilled water, 2-3 minutes.
4. Stain in Schiff’s for 20 minutes.
5. Place in warm running tap water for ten minutes.
6. Stain with light green for 1-3 minutes
7. Rinse quickly in distilled water.
8. Dehydrate, clear and mount.

**Results:**

PAS fungus positive substances magenta

Back Ground light green

Written By: Director Approval:

(Signature and Date) (Signature and Date)

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Histology Supervisor