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# TECHNICALLY *Speaking*

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## G.M.S.

CLSG80155

Lot:

### Kit Components Included:

100 ml	5% Chromic Acid	100 ml	1% Sodium Bisulfite
100 ml	0.3% Gold Chloride	100 ml	2% Sodium Thiosulfate
100 ml	Light Green Counterstain	30 ml	Sodium Borate Concentrate
5 Vials	Methenamine/Silver Compound	4 Each	Slide Jar for Microwave Procedure

**Principle:** This kit demonstrates fungi and Pneumocystis Carinii.

### G.M.S. Stain Kit Procedure

**Specimen:** Any well fixed paraffin embedded tissue cut at 4 to 5 microns.

### **Procedure:**

1. Deparaffinize slide using Xylene or a Xylene Substitute and hydrate through alcohols.
2. Rinse slide thoroughly in Tap water.
3. Place slide in **5% CHROMIC ACID** for 1 hour.
4. Rinse slide quickly in Tap water.
5. Place slide in **1% SODIUM BISULFITE** for 1 minute.
6. Rinse slide quickly in Tap water.
7. Place slide in Distilled water for 1 minute.
8. \*Place slide in the **Methenamine/Silver Solution** for 15 to 25 minutes in a 62°C water bath.

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For more information or to place an order please contact...

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### ***Methenamine/Silver Solution Preparation:***

Add 2ml of Distilled water to a vial of **Methenamine/Silver Compound** and break up chunks with an applicator stick. Pour contents of vial into a clean glass coplin jar or unused plastic container. Add 46ml of Distilled water and mix thoroughly. Add 2ml of **Sodium Borate Concentrate** and mix for 2 minutes; **Methenamine/Silver Solution** is ready to use.

### **PLEASE NOTE:**

- 1. Do not reuse Methenamine/Silver Solution!**
- 2. Methenamine/Silver Compound may soften during transit; this will not affect product performance.** If desired, **Methenamine/Silver Compound** can be re-hardened by placing vials in a freezer.

9. Rinse slide through 2 changes of Distilled water.
10. Place slide in **0.3% GOLD CHLORIDE** for 1 minute.
11. Rinse slide thoroughly in running Tap water.
12. Place slide in **2% SODIUM THIOSULFATE** for 2 minutes.
13. Rinse slide in running Tap water for 2 minutes.
14. Place slide in **LIGHT GREEN COUNTERSTAIN** for 30 to 60 seconds.
15. Dehydrate slide through 3 changes of fresh Absolute Alcohol.
16. Clear slide through 3 changes of Xylene or Xylene Substitute.
17. Coverslip using a permanent mounting media.

### **Results:**

Fungi and Pneumocystis Carinii:      **GRAY TO BLACK**  
Background:                                      **GREEN**

**\*Lab Oven Method:** Place slide in **Methenamine/Silver Solution** and incubate for 25 to 35 minutes at 70° to 75°C.

**Reference:** 1. Sheehan DC Hrapchak BB: Theory and Practice of Histotechnology; 1980: 245-246.

### **Microwave G.M.S. Stain Procedure**

**Technical Specification:** These instructions were developed using a single power level 500 watt microwave oven; heating times should be changed as needed based on the microwave oven used.

**Specimen:** Any well fixed paraffin embedded tissue cut at 4 to 5 microns. We recommend staining no more than 3 slides at a time when using the supplied slide jars. To allow sufficient volume for thermal expansion, do not fill slide jars past the bottom cap thread.

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**Procedure:**

1. Deparaffinize using Xylene or a Xylene Substitute and hydrate through alcohols.
2. Rinse slide thoroughly in Tap water.
3. Place slide in a Slide Jar filled with **5% Chromic Acid**. CAP JAR LOOSELY!
4. Place Slide Jar in microwave oven. Heat on high power for 10 seconds and incubate for 1 minute.
5. Rinse slide in running Tap water for 1 minute.
6. Place slide in room temperature **1% Sodium Bisulfite** for 1 minute.
7. Rinse slide in running Tap water for 1 minute, then place in Distilled water for 1 minute.
8. Place slide in a Slide Jar of fresh **Methenamine/Silver Solution**. CAP JAR LOOSELY!

***Methenamine/Silver Solution Preparation:***

Add 2ml of Distilled water to a vial of **Methenamine/Silver Compound** and break up any chunks with an applicator stick. Pour contents of vial into a clean glass coplin jar or unused plastic container. Add 46ml of Distilled water and mix thoroughly. Add 2ml of **Sodium Borate Concentrate** and mix for 2 minutes; **Methenamine Silver Solution** is ready to use.

**PLEASE NOTE:**

1. **Do not reuse Methenamine/Silver Solution!**
2. **Methenamine/Silver Compound** may soften during transit; this will not affect product performance. If desired, **Methenamine/Silver Compound** can be re-hardened by placing vials in a freezer.

9. Place Slide Jar in microwave oven. Heat on high power for 10 seconds and incubate for 30 seconds. Repeat this step as needed until the tissue is a medium brown color.
10. Rinse slide in Distilled water and evaluate stain using a microscope.
11. Repeat **Step #9** for darker organisms.
12. Place slide in room temperature **0.3% Gold Chloride** for 1 minute.
13. Rinse slide thoroughly in running Tap water.
14. Place slide in **2% Sodium Thiosulfate** for 1 minute.
15. Rinse slide in running Tap water for 2 minutes.
16. Place slide in **Light Green Counterstain** for 30 to 60 seconds.
17. Dehydrate slide through 3 changes of Absolute Alcohol.
18. Clear through 3 changes of Xylene or Xylene Substitute.
19. Coverslip using a permanent mounting media.

**Results:**

Fungi and Pneumocystis Carinii:

**GRAY TO  
BLACK  
GREEN**

Background:

**Reference:** 1. Sale GE: Rapid Methenamine Silver Stain; Arch Pathol Lab Med; 1978, 102: 351- 352.

**For Research Use Only. Not for Diagnostic or Therapeutic Work.**