# This procedure is available in kit form from:

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cat# cy016

## GROCOTT'S METHENAMINE SILVER STAIN (CHURUKIAN SCHENK)

#### **SOLUTIONS:**

1.	Methenamine	Stock	Salution	٨
1.	Methenanine	Stock	Solution	$\boldsymbol{H}$

2. Silver Nitrate Stock Solution B

## **Methenamine Silver Working Solution:**

3. Fast Green 0.2% Solution

### **Fast Green Working Solution:**

- 4. Chromic Acid 5% Aqueous
- 5. Sodium Bisulfite 1% Aqueous
- 6. Gold Chloride 0.2% Aqueous
- 7. Sodium Thiosulfate 2% Aqueous
- 8. Borax 5% Aqueous

#### STAINING PROCEDURE:

Note: Start with step 1 for paraffin sections and with step 3 for smears.

- 1. Deparaffinize in two changes of Xylene, 5 minutes each.
- 2. Hydrate through two changes of Absolute Ethyl Alcohol, 95%, 80% and 70% Alcohols, 2 changes for 15 dips each.
- 3. Wash in distilled water for 15 dips.
- 4. Place slides in Chromic Acid 5% Aqueous in a 43°C water bath for 2 minutes.
- 5. Transfer coplin jar to a 58°C water bath for 5 minutes.
- 6. Wash in tap water for 15 dips.
- 7. Place slides in Sodium Bisulfite 1% Aqueous for 30 seconds.
- 8. Wash in running tap water for 15 seconds.
- 9. Wash in four changes of distilled water 15 dips each.

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## GROCOTT'S METHENAMINE SILVER STAIN (CHURUKIAN SCHENK)

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- 10. Place slides in freshly mixed Methenamine Silver Working Solution in a 32°C water bath for 2 minutes.
- 11. Transfer coplin jar to a 58°C water bath for 23 minutes.
- 12. Wash in four changes of distilled water 15 dips each.
- 13. Place in Gold Chloride 0.2% Aqueous 20 to 30 dips.
- 14. Wash in two changes of distilled water 15 dips each.
- 15. Place in Sodium Thiosulfate 2% Aqueous for 1 minute.
- 16. Wash in running tap water for 15 seconds.
- 17. Stain in Fast Green Working Solution for 30 seconds.
- 18. Wash in running tap water for 15 seconds.
- 19. Wash in two changes of distilled water 15 dips each.
- 20. Dehydrate in 95% Ethyl Alcohol, Absolute Ethyl Alcohol, 2 changes each 15 dips.
- 21. Clear in Xylene, 2 changes 15 dips each.
- 22. Mount with Poly Mount (cat# s2153) or any other acceptable mounting medium.

#### **RESULTS:**

Pneumocystis Carinii & Fungi	Black
Glycogen and Mucin	Rose to Gray
Background	Pale Green