Usage procedure for: GMS Stain Kit



Solutions Provided: Chromic Acid, 5% GMS Silver Nitrate Stock Solution GMS Methenamine Stock Solution Sodium Borate Solution Sodium Bisulfite, 1% Gold Chloride, 0.2% Sodium Thiosulfate, 5% Light Green Counterstain

Working solution preparation (prepare just before use):

Working Methenamine-Silver SolutionGMS Silver Nitrate Stock Solution:25mLGMS Methenamine Stock Solution:25mLSodium Borate Solution:2mL

Conventional Procedure

- 1. Deparaffinize and hydrate sections through alcohol to distilled water.
- 2. Place sections in Chromic Acid, 5% at room temperature for one hour or in a preheated solution at 60°C for 5-10 minutes.
- 3. Rinse slides in running tap water for a few seconds.
- 4. Place slides in Sodium Bisulfate, 1% for 1 minute.
- 5. Rinse in running tap water for several minutes.
- 6. Wash in several changes of distilled water
- 7. Place sections in Methenamine-Silver Working Solution preheated to 58°C-60°C for 10-15 minutes or until sections turn yellowish brown. Check section microscopically for proper silver impregnation (dark brown fungi). If silver impregnation is not adequate, return slides to Methenamine-Silver

Working solution and recheck every 2-3 minutes.

- 8. Rinse slides in 4-6 changes of distilled water.
- 9. Tone in Gold Chloride, 0.2% for 15-30 seconds.
- 10. Wash thoroughly in tap water.
- 11. Treat slides with Sodium Thiosulfate, 5% for 2-5 minutes to remove unreduced silver.
- 12. Wash thoroughly in tap water.
- 13. Counterstain with Light Green Counterstain, for 90 seconds.
- 14. Dehydrate in 2 changes of 95% alcohol followed by 2 changes of 100% alcohol.
- 15. Clear and mount with appropriate mounting medium.

Results:

Black
Taupe to Grey
Green

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