Usage procedure for:

GMS Stain Kit

Avantik Kit Item #: RS4556-125 | RS4556-250 | RS4556-500



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Solutions Provided in Stain Kit:

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%

Working solution preparation (prepare fresh):

Working Methenamine-Silver Solution

GMS Silver Nitrate Stock Solution: 25mL GMS Methenamine Stock Solution: 25mL Sodium Borate Solution: 2mL

Conventional Procedure

Light Green Counterstain

- 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 Bisulfite**, **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, pcp, etc). 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.

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Results:

Fungi/PCP/Candida/Aspergullis: Black

Mucin: Taupe to Grey

Background: Green

Kit Components and Related Control Slides:

Avantik Item Numbers:

Chromic Acid, 5%: RS4399-250 (250 mL) | RS4399-500 (500mL)

GMS Silver Nitrate Stock Solution: RS4410-250 (250mL) | RS4410-500 (500mL) GMS Methenamine Stock Solution: RS4409-250 (250mL) | RS4409-500 (500mL)

Sodium Borate Solution: RS4452-250 (250mL) | RS4452-500 (500mL)

Sodium Bisulfite, 1%: RS4451-250 (250mL) | RS4451-500 (500mL)

Gold Chloride, 0.2%: RS4412-250 (250mL) | RS4412-500 (500mL)

Sodium Thiosulfate, 5%: RS4455-250 (250mL) | RS4455-500 (500mL)

Light Green Counterstain: RS4421-250 (250mL) | RS4421-500 (500mL)

GMS Aspergullis Control Slides: SL6329-A (Pack/12) | SL6329-B (Pack/25) | SL6329-D (Pack/100)

GMS Candida Control Slides: SL6402-A (Pack/12) | SL6402-B (Pack/25) | SL6402-D (Pack/100)

GMS/PCP Control Slides: SL6328-A (Pack/12) | SL6328-B (Pack/25) | SL6328-D (Pack/100)

GMS/Fungus Control Slides: SL6208-A (Pack/12) | SL6208-B (Pack/25) | SL6208-D (Pack/100)

GMS/Fungus Pos/Neg Control Slides: SL6378-A (Pack/12) | SL6378-B (Pack/25) | SL6378-D (Pack/100)