

Usage procedure for:

Steiner (Uranyl Nitrate Free) Stain Kit

Avantik Kit Item #: RS4567-125 | RS4567-250 | RS4567-500



19 Chapin Rd - Building C
Pine Brook, NJ 07058

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Solutions Provided in Stain Kit:

Steiner Sensitizer Solution
Silver Nitrate, 1%
Gum Mastic, 2.5%
Hydroquinone Powder

Working solution preparation (prepare just before use):

Working Reducing Solution

Hydroquinone Powder: 1 Vial (0.5g)
Deionized Water: 25mL

Mix well then add:

Gum Mastic, 2.5%: 15mL
Silver Nitrate, 1%: 6 drops

Use once and discard.

NOTE: Before beginning preheat 40mL of Steiner Sensitizer Solution, 40mL Silver Nitrate, 1%, and Working Reducing Solution in a 60°C water bath.

Conventional Procedure

1. Deparaffinize and hydrate sections through alcohol to distilled water.
2. Place slides in preheated **Steiner Sensitizer Solution** in a 60°C water bath for **15 minutes**.
3. Thoroughly rise slides in deionized water.
4. Place sections in preheated **Silver Nitrate, 1%** in a 60°C water bath for approximately **1 hour**.
5. Rinse sections well in deionized water.
6. Dip slides briefly in 2 changes of 95% Ethyl Alcohol.
7. Dip slides briefly in 2 changes of 100% Ethyl Alcohol.
8. Place sections in **Gum Mastic, 2.5%** for **5 minutes**.
9. Remove slides from Gum Mastic, 2.5% and **DO NOT RINSE**. Allow sections to air dry for 1-5 minutes.
10. Place sections in preheated **Working Reducing Solution** in a 60°C water bath for **10-30 minutes** until sections appear golden brown. Check sections microscopically at 10 minutes and timed intervals thereafter to ensure sections do not become too dark. Once the desired intensity has been reached, remove sections, proceed to next step, and **DISCARD** Working Reducing Solution.
11. Dehydrate in 2-3 changes of 95% alcohol followed by 2-3 changes of 100% alcohol.
12. Clear and mount with appropriate mounting medium.

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Results:

Spirochetes, H. Pylori & Fungi:
Background:

Dark Brown to Black
Yellow to Brown

Kit Components and Related Control Slides:

Avantik Item Numbers:

Steiner Sensitizer Solution: RS4457-250 (250 mL) | RS4457-500 (500 mL)

Silver Nitrate, 1%: RS4446-250 (250 mL) | RS4446-500 (500 mL)

Gum Mastic, 2.5%: RS4415-250 (250 mL) | RS4415-500 (500 mL)

Hydroquinone Powder: RS4462 (Each/10)

Steiner Control Slides: SL6218-A (Pack/12) | SL6218-B (Pack/25) | SL6218-D (Pack/100)