



Reticulum Stain Kit, Gomori

Solutions Provided:

- #SSC1113-0.5-250 - **Potassium Permanganate, 0.5%**
- #SSC1205-250 - **Potassium Metabisulfite, 2%**
- #SSC1159-2-250 - **Ferric Ammonium Sulfate, 2%**
- #SSC1121-250 - **Silver Nitrate, 10%**
- #SSC1182-250 - **Potassium Hydroxide, 10%**
- #SSC1045-250 - **Ammonium Hydroxide, 28%**
- #SSC1161-250 - **Formalin Solution, 20% (unbuffered)**
- #SSC1080-250 - **Gold Chloride, 0.2%**
- #SSC1130-250 - **Sodium Thiosulfate, 2%**
- #SSC1099-250 - **Nuclear Fast Red**

Working solution preparation (*prepare just before use*):

Ammoniacal Silver Solution

Combine 20mL Silver Nitrate, 10% and 4mL-5mL of Potassium Hydroxide, 10%. Add Ammonium Hydroxide, 28% drop by drop until the precipitate that forms is completely dissolved. Be sure not to add any excess Ammonium Hydroxide. Add additional Silver Nitrate, 10% drop by drop until 1 drop causes the solution to become cloudy. A faint cloudiness to the solution is desired. Measure the amount of the final solution and dilute with an equal amount of distilled water. Filter into chemically clean coplin jar.

Conventional Procedure

1. Deparaffinize and hydrate sections through alcohol to distilled water.
2. Oxidize sections in **Potassium Permanganate, 0.5%** for **1 minute**.
3. Wash slides in running tap water for 2 minutes.
4. Place slides in **Potassium Metabisulfite, 2%** for **1 minute**.
5. Wash slides in running tap water for 2 minutes.
6. Place slides in **Ferric Ammonium Sulfate, 2%** for **1 minute**.
7. Thoroughly rinse slides in running tap water for 2 minutes then in 2-3 changes of distilled water for 30 seconds each.
8. Place slides in **Ammoniacal Silver Solution** for **1 minute**.
9. Rinse slides in distilled water for 20-30 seconds.
10. Place slides in **Formalin Solution, 20%** for **3 minutes**.
11. Wash slides in running tap water for 3 minutes.
12. Tone sections in **Gold Chloride, 0.2%** for **10 minutes**.
13. Rinse slides in distilled water.
14. Place slides in **Potassium Metabisulfite, 2%** for **1 minute**.
15. Place slides in **Sodium Thiosulfate, 2%** for **1 minute**.
16. Wash slides in running tap water for 2 minutes.
17. Counterstain (if desired) in **Nuclear Fast Red** for **5 minutes**. Other counterstains are available for use based on preference.
18. Thoroughly rise slides in running tap water.
19. Dehydrate in 2-3 changes of 95% alcohol followed by 2-3 changes of 100% alcohol.
20. Clear and mount with appropriate mounting medium.

Results:

Reticulum Fibers:	Black
Collagen:	Taupe
Background:	Pink to Red (background will appear different)