



Reticulum Stain Kit, PureView

Solutions Provided:

- #SSC1275 - **Ferric Ammonium Sulfate, 3%**
- #SSC1161 - **Formalin Solution, 20%**
- #SSC1150 - **Gold Chloride, 0.1%**
- #SSC1099 - **Nuclear Fast Red**
- #SSC1129 - **Potassium Metabisulfite, 3%**
- #SSC1113 - **Potassium Permanganate, 1%**
- #SSC1121 - **Silver Nitrate, 10%**
- #SSC1128 - **Sodium Hydroxide, 3%**
- #SSC1131 - **Sodium Thiosulfate, 5%**

Required but not included: Concentrated (28%) Ammonium Hydroxide

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

Ammoniacal Silver Solution

Place 10mL vial of Silver Nitrate, 10% in an appropriate container. Add 17mL Distilled or Deionized Water. Add 1mL Ammonium Hydroxide, 28% (not included) drop by drop until the turns brown, then colorless. Be sure not to add any excess Ammonium Hydroxide. Add 10mL Sodium Hydroxide, 3%. If necessary, cautiously dissolve the precipitate that forms once again by adding Ammonium Hydroxide, 28% drop by drop until only a faint cloudiness remains. Dilute the resulting solution to 60mL with distilled water. Use immediately and discard after each use. This solution reacts with metals. Do not use metal forceps, racks or other tools with this solution. **DO NOT EXPOSE TO SUNLIGHT.**

Conventional Procedure

1. Deparaffinize and hydrate sections through alcohol to distilled water.
2. Place sections in **Potassium Permanganate, 1%** for **5-10 minutes**.
3. Wash slides in running DI water for 1 minute.
4. Place sections in **Potassium Metabisulfite, 3%** for **30-60 seconds** until section is colorless.
5. Wash slides in running DI water for 1 minute.
6. Place slides in **Ferric Ammonium Sulfate, 3%** for **10 minutes**.
7. Wash slides in running DI water for 1 minute.
8. Place slides in **Ammoniacal Silver Solution** for **2-3 minutes**.
9. Wash slides in running DI water for 1 minute.
10. Place slides in the **Formalin Solution, 20%** for **1 minutes**.
11. Wash slides in running tap water for 3 minutes.
12. Tone sections in **Gold Chloride, 0.1%** for **3-5 minutes**. Avoid excess toning in Gold Chloride, which will result in an undesirable red tone.
13. Wash slides in running DI water for 1 minute.
14. Place slides in **Sodium Thiosulfate, 5%** for **1-2 minutes**.
15. Wash slides in running DI water for 1 minute.
16. Counterstain (if desired) in **Nuclear Fast Red** for **3-5 minutes**.
17. Wash slides in running DI water for 1 minute.
18. Dehydrate in 2-3 changes of 95% alcohol followed by 2-3 changes of 100% alcohol.
19. Clear and mount with appropriate mounting medium.

Results:

Reticulum Fibers: Black
Background: Pink to Red (if counter stained with Nuclear Fast Red)