

Usage procedure for: Colloidal Iron Stain Kit



19 Chapin Rd - Building C
Pine Brook, NJ 07058

t: 800.783.9424
e: info@avantik-us.com

avantik-us.com

Avantik Kit Item #: RS4551-125 | RS4551-250 | RS4551-500

Solutions Provided in Stain Kit:

Acetic Acid, 12%
Colloidal Iron Stock Solution
Hydrochloric Acid, 3%
Potassium Ferrocyanide, 3%
Van Gieson's Stain

Working solution preparation (prepare just before use, use once and discard):

Working Colloidal Iron Solution

| | |
|-----------------------|------|
| Stock Colloidal Iron: | 20mL |
| Glacial Acetic Acid: | 5mL |
| Distilled Water: | 15mL |

Working Iron Stain

| | |
|-----------------------------|------|
| Potassium Ferrocyanide, 3%: | 25mL |
| Hydrochloric Acid, 3%: | 25mL |

Conventional Procedure

1. Deparaffinize and hydrate sections through alcohol to distilled water.
2. Rinse slides in **Acetic Acid, 12%** for 30 seconds.
3. Stain sections in **Working Colloidal Iron Solution** for 30-60 minutes with occasional agitation.
4. Rinse in 3 changes of **Acetic Acid, 12%** for 2 minutes each.
5. Soak sections in **Working Iron Stain** for 10-20 minutes with occasional agitation.
6. Rinse in 3 changes of distilled water.
7. Counterstain sections in **Van Gieson's Stain** for 30-45 seconds.
8. Dehydrate through 3 changes of 100% alcohol.
9. Clear and mount with appropriate mounting medium.

Results:

| | |
|---------------------------|------|
| Acid Mucopolysaccharides: | Blue |
| Collagen | Red |

Kit Components and Related Control Slides:

Avantik Item Numbers:

Acetic Acid, 12%: RS4384-250 (250mL) | RS4384-500 (500mL)

Colloidal Iron Stock Solution: RS4400-250 (250mL) | RS4400-500 (500mL)

Hydrochloric Acid, 3%: RS4416-250 (250mL) | RS4416-500 (500mL)

Potassium Ferrocyanide, 3%: RS4438-250 (250mL) | RS4438-500 (500mL)

Van Gieson's Stain: RS4460-250 (250mL) | RS4460-500 (500mL)