



Colloidal Iron Stain Kit, Müller-Mowry

Solutions Provided:

- #SSC1032-250 - **Acetic Acid, 12%**
- #SSC1062-250 - **Colloidal Iron Stock Solution**
- #SSC1034-250 - **Acetic Acid, 40%**
- #SSC1108-250 - **Potassium Ferrocyanide, 2%**
- #SSC1084-250 - **Hydrochloric Acid, 2%**
- #SSC1099-250 - **Nuclear Fast Red**

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

Working Colloidal Iron Solution		Ferrocyanide-Hydrochloric Acid Solution	
Stock Colloidal Iron:	10mL	Potassium Ferrocyanide, 2%:	25mL
Acetic Acid, 40%:	30mL	Hydrochloric Acid, 2%:	25mL

Conventional Procedure

1. Deparaffinize and hydrate sections through alcohol to distilled water.
2. Rinse slides in Acetic Acid, 12% for 1 minute.
3. Stain sections in working colloidal iron solution for 1 hour.
4. Rinse in 3 changes of Acetic Acid, 12% for 3 minutes each.
5. Soak sections in Ferrocyanide-Hydrochloric Acid solution for 20 minutes.
6. Wash in running tap water for 5 minutes.
7. Counterstain sections in Nuclear Fast Red for 5 minutes.
8. Wash slides in running water for at least 1 minute.
9. Dehydrate, clear and mount with appropriate mounting medium.

Microwave Procedure

1. Rinse slides in Acetic Acid, 12% for 1 minute.
2. Place sections in Working Colloidal Iron Solution in a glass Coplin jar and microwave at Power Level 1 (60W) for 3 minutes. Dip the slides up and down several times and keep in the warmed solution for 10 minutes.
3. Rinse in 4 changes of Acetic Acid, 12% for 1 minute each.
4. Place sections in Ferrocyanide-Hydrochloric Acid solution in a glass Coplin jar and microwave at power level 1 (60W) for 2 minutes. Dip the slides up and down several times and keep in the warmed solution for 2 minutes.
5. Wash in running water for 1 minute.
6. Rinse in 2 changes of distilled water.
7. Counterstain sections in Nuclear Fast Red for 3 minutes.
8. Wash slides in running water for at least 1 minute.
9. Dehydrate, clear and mount with appropriate mounting medium.

Results:

Acid Mucopolysaccharides:	Deep Blue
Nuclei:	Pink-Red
Cytoplasm:	Pink

