

# Colloidal Iron Stain Kit

**Description:** The Colloidal Iron Stain Kit is designed for the histological visualization of acid mucopolysaccharides.

Acid Mucopolysaccharides: Bright Blue  
 Collagen: Shades of Red

**Uses/Limitations:** For In-Vitro Diagnostic use only.  
 Histological applications.  
 Do not use past expiration date.  
 Use caution when handling these reagents.

**Control Tissue:** Colon  
 Small Intestine

**Availability/Contents:**


<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
AAK500	Acetic Acid Solution (12%)	500 ml	Room Temperature
HQA125	Hydrochloric Acid Solution (1N)	125 ml	Room Temperature
PFD125	Potassium Ferrocyanide Solution (3%)	125 ml	Room Temperature
CIS125	Colloidal Iron Stock Solution	125 ml	Room Temperature
VGS125	Van Gieson's Solution	125 ml	Room Temperature


**Precautions:** Avoid contact with skin and eyes.  
 May cause burns.  
 Harmful if swallowed.  
 Follow all Federal, State, and local regulations regarding disposal.  
 Use in chemical fume hood whenever possible.

**Prepare the Following Solutions Immediately Before Use.**

**Working Colloidal Iron Solution:**      5 ml    Acetic Acid Solution (12%)  
    15 ml    Distilled Water  
    20 ml    Colloidal Iron Stock Solution

**Working Iron Stain Solution:**            20 ml    Hydrochloric Acid Solution (1N)  
    20 ml    Potassium Ferrocyanide Solution (3%)

Storage: 18° C  25° C

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### Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Place slide in Acetic Acid Solution (12%) for 30 seconds. Use once and discard.
3. Place slide in Working Colloidal Iron Solution for 30 minutes. Agitate solution several times during staining. Use once and discard.
4. Rinse thoroughly in 3 changes of Acetic Acid Solution (12%) for 2 minutes each. Use once and discard.
5. Stain slide in Working Iron Stain Solution for 10 minutes. Agitate solution several times during staining. Use once and discard.
6. Rinse in 3 changes of distilled water.
7. Stain slide in Van Gieson's Solution for 30-45 seconds.
8. Dehydrate in 3 changes of absolute alcohol.
9. Clear, and mount in synthetic resin.

### References:

1. Muller, G. ACTA Histochem (Jena); 2:68, 1955

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