

Instructions For Use		
CIK-2-IFU		
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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - [www.scytek.com](http://www.scytek.com)

# 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:**

Item #	Kit Contents	Volume	Storage
AAK060	Acetic Acid Solution (12%)	60 ml (x2)	18-25°C
DDH030	Water, Deionized/Distilled	30 ml	18-25°C
HQA030	Hydrochloric Acid Solution (1N)	30 ml	18-25°C
PFD030	Potassium Ferrocyanide Solution (3%)	30 ml	18-25°C
CIS030	Colloidal Iron Stock Solution	30 ml	18-25°C
VGS030	Van Gieson's Solution	30 ml	18-25°C


**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:** 1 Drop Acetic Acid Solution (12%)  
3 Drops Water, Deionized/Distilled  
4 Drops Colloidal Iron Stock Solution

**Working Iron Stain Solution:** 5 Drops Hydrochloric Acid Solution (1N)  
5 Drops Potassium Ferrocyanide Solution (3%)

Storage: 18° C  25° C

 ScyTek Laboratories, Inc.  
205 South 600 West  
Logan, UT 84321  
435-755-9848  
U.S.A.

**CE** Authorized Representative in Europe  
 (Regulatory affairs only)  
EmergoEurope (31)(0) 70 345-8570  
Molsnstraat 15  
2513 BH Hague, The Netherlands

### Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply 4-6 drops of Acetic Acid Solution (12%) and incubate for 30 seconds.
3. Apply Working Colloidal Iron Solution for 30 minutes. Agitate solution several times during staining. Use once and discard.
4. Rinse thoroughly using 3 changes of Acetic Acid Solution (12%) for 2 minutes each.
5. Apply 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. Apply 4-6 drops of Van Gieson's Solution and incubate 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

Storage: 18° C



25° C



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