

Instructions For Use KT021-IFU

Rev. Date: May 31, 2018

Revision: 5

Page 1 of 2

626 Wilshire Blvd, Suite 410 Los Angeles, CA 90017 - Tel. +1 (408) 580-1396 www.genebiosolution.com

Iron Stain Kit

Description: The Iron Stain Kit is intended for use in the detection of ferric iron in tissues, blood smears, or bone marrow smears. Ferric iron is normally found in small amounts in bone marrow and the spleen. Abnormally large deposits may be seen in hemochromatosis and hemosiderosis. This product is based on the Prussian Blue reaction in which ionic iron reacts with acid ferrocyanide producing a blue color.

Tissue Sections

Iron: Nuclei: Background: Bright Blue
Bone or Blood Smears Red Pink

Sideroblasts: These are nucleated erythrocytes containing at least one small blue granule. If the blue granules surround the nucleus, the cell is a ringed sideroblast.

Siderocytes: These are non-nucleated erythrocytes containing at least one blue granule.

Reticuloendothelial Iron: Usually seen as blue particles on the marrow smear or as blue particles in the cytoplasm or phagocytic cells.

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

Control Tissue: Spleen
Bone Marrow

Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Potassium Ferrocyanide Solution	500 ml	15-30°C
Hydrochloric Acid Solution (2%)	500 ml	15-30°C
Nuclear Fast Red Solution	125 ml	15-30°C

Precautions: This product is a single-use, non-sterile, in vitro diagnostic device.
Avoid contact with skin and eyes.

**Gene Biosolution**626 Wilshire Blvd, Suite
410 Los Angeles, CA
90017

Tel: +1 (408) 580-1396

Instructions For Use KT021-IFU

Rev. Date: May 31, 2018

Revision: 5

Page 2 of 2

626 Wilshire Blvd, Suite 410 Los Angeles, CA 90017 - Tel. +1 (408) 580-1396 www.genebiosolution.com

May cause burns.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Procedure (Standard):

Note: Use acid-washed or bleach-washed glassware.

Rinse all glassware with distilled water prior to use.

Do not use metal forceps to transfer slide during staining procedure.

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Mix equal volumes of Potassium Ferrocyanide Solution and Hydrochloric Acid Solution to make a working Iron Stain Solution. Use once and discard.
3. Incubate slide in working Iron Stain Solution for 3 minutes.
4. Rinse thoroughly in distilled water.
5. Stain slide in Nuclear Fast Red Solution for 5 minutes.
6. Rinse in 4 changes of distilled water.
7. Dehydrate in 95% alcohol followed by absolute alcohol.
8. Clear, and mount in synthetic resin.



Gene Biosolution

626 Wilshire Blvd, Suite
410 Los Angeles, CA
90017

Tel: +1 (408) 580-1396