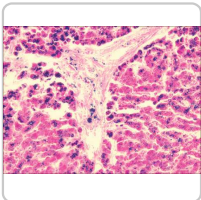


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Iron Stain

★★★★★
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Documents

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SDS

🔍
COO/COA

📄
Specification Sheet

More Documents
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Select a Size

1 KIT

CZK 9,540.00

Change View



HT20-1KT
ℹ️

CZK 9,540.00

Availability

✅ Available to ship on July 09, 2024
[Details](#)

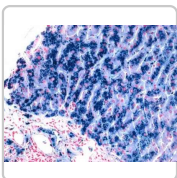
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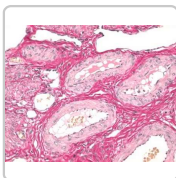
RECOMMENDED PRODUCTS



Sigma-Aldrich

1.12084

HEMATOGNOST Fe™



Sigma-Aldrich

1.15973

Weigert's iron hematoxylin kit

View Price and Availability

View Price and Availability

PROPERTIES

form	solution
Quality Level	500
shelf life	Expiry date on the label.
application(s)	hematology histology
storage temp.	room temp

Related Categories

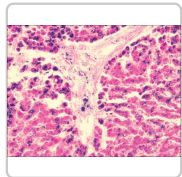
Hematology Stains

Histology Stains

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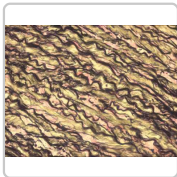
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This Item



HT20
Iron Stain

[View Price and Availability](#)



HT25A
Elastic Stain

[View Price and Availability](#)



Quality Level
500

form
solution

shelf life
Expiry date on the label.

storage temp.
room temp



Quality Level
500

form
solution

shelf life
Expiry date on the label.

storage temp.
room temp



DESCRIPTION

Principle

Deposits of loosely bound iron in erythrocytes, bone marrow, or tissue stain an intense blue when treated with acid ferrocyanide according to the well-known Prussian blue reaction.

RELATED PRODUCTS

Related Product

R8382

Reagent Alcohol, used for histology tissue preparation

[View Pricing](#)

S5641

Scienceware® Coplin staining jar with screw cap, high-density polypropylene

[View Pricing](#)

SAFETY INFORMATION

Pictograms



GHS02,GHS05,GHS06,GHS08

Signal Word

Danger

Hazard Statements

**H225 - H290 -
H301 + H311 +
H331 - H350 -
H370**

Precautionary Statements

**P202 - P210 - P280
- P301 + P310 -
P303 + P361 +
P353 - P304 + P340
+ P311**

Hazard Classifications

Acute Tox. 3 Dermal
- Acute Tox. 3
Inhalation - Acute
Tox. 3 Oral - Carc.

Storage Class Code

3 - Flammable
liquids

WGK

WGK 3

Flash Point(F)

51.8 °F

1B - Flam. Liq. 2 -
Met. Corr. 1 - STOT
SE 1

Flash Point(C)

11 °C

DOCUMENTATION



SDS



Specification Sheet

[Certificate Of Analysis](#) [Certificate Of Origin](#) [More Documents](#)

User Guide

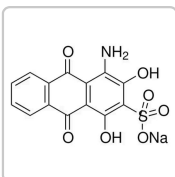
[User Guide \(IFU\) - Iron Stain \(Procedure No. HT20\)](#)

Already Own This Product?

Documents related to the products that you have purchased in the past have been gathered in the Document Library for your convenience.

[Visit the Document Library](#)

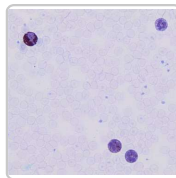
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Sigma-Aldrich

N3020

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Sigma-Aldrich

391A

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PEER REVIEWED PAPERS

Non-hematopoietic deficiency of proprotein convertase subtilisin/kexin type 9 deficiency leads to more severe anemia in a murine model of sickle cell disease.

J Venugopal et al.

Scientific reports, 10(1), 16514-16514 (2020-10-07)

Proprotein convertase subtilisin/kexin type 9 (PCSK9) deficiency leads to lower cholesterol and is associated with reduced vascular complications in the general population. Cholesterol lowering may also have beneficial effects in sickle cell disease (SCD). The objective of this study was

Polymeric micelles: Theranostic co-delivery system for poorly water-soluble drugs and contrast agents.

Jaydev R Upponi et al.

Biomaterials, 170, 26-36 (2018-04-13)

Interest in theranostic agents has continued to grow because of their promise for simultaneous cancer detection and therapy. A platform-based nanosized combination agent suitable for the enhanced diagnosis and treatment of cancer was prepared using polymeric polyethylene glycol-phosphatidylethanolamine-based micelles loaded

Differential frequency modulation of neural activity in the lateral cerebellar nucleus in failed and successful grasps.

Jessica Cooperrider et al.

Experimental neurology, 277, 27-34 (2015-12-25)

The olivo-cerebellar system has an essential role in the detection and adaptive correction of movement errors. While there is evidence of an error signal in the cerebellar cortex and inferior olivary nucleus, the deep cerebellar nuclei have been less thoroughly

Iron accumulation in tumor-associated macrophages marks an improved overall survival in patients with lung adenocarcinoma.

Carl Maximilian Thielmann et al.

Scientific reports, 9(1), 11326-11326 (2019-08-07)

Iron-loaded tumor-associated macrophages (iTAMs) show a pro-inflammatory phenotype, hallmarked by anti-tumorigenic activity and an ability to attenuate tumor growth. Here we explored the relevance of these findings in lung cancer patients by investigating the impact of the iTAM content in

Iron Induces Anti-tumor Activity in Tumor-Associated Macrophages.

Milene Costa da Silva et al.

Frontiers in immunology, 8, 1479-1479 (2017-11-24)

Tumor-associated macrophages (TAMs) frequently help to sustain tumor growth and mediate immune suppression in the tumor microenvironment (TME). Here, we identified a subset of iron-loaded, pro-inflammatory TAMs localized in hemorrhagic areas of the TME. The occurrence of iron-loaded TAMs (iTAMs)

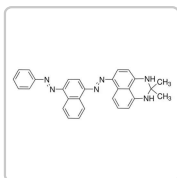
PROTOCOLS AND ARTICLES

Related Content

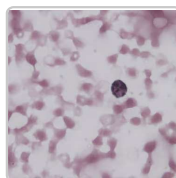
Hematology

Learn about the clinical study of blood, blood-forming organs, and blood diseases including the treatment, prevention, and stains and dyes used in hematology testing.

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Sigma-Aldrich
199664
Sudan Black B

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Sigma-Aldrich
380B
Sudan Black B
Staining System

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0
Reviews

8
Questions

8
Answers

Questions

[Ask a question](#)

1-8 of 8 Questions

Sort by: ▼

Anonymous · 2 months ago

Can the HT20 Iron Stain kit be used with frozen sections?

1
answer

Technical Support · 2 months ago

Both frozen sections and paraffin-embedded tissue are considered satisfactory for iron staining, as per the Instructions For Use. Blood or bone marrow films are prepared in the usual fashion, air-dried for at least 30 minutes, and fixed in absolute methanol for 7 minutes.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Anonymous · 2 months ago

1
answer

Does EDTA affect Prussian Blue staining for siderocytes and other blood cells found in bone marrow?

Technical Support · 2 months ago

While slides anticoagulated with EDTA may be suitable for demonstrating iron in peripheral blood smears and bone marrow smears, bone marrow that has been decalcified in EDTA may not demonstrate iron using the Perl's or Prussian Blue Method. Even for bone marrow smears, EDTA can diminish or remove iron from bone marrow aspirates if the levels of EDTA used in collection are high. EDTA has various uses in laboratories, including as an anticoagulant and a decalcifying agent to chelate calcium from bone. By removing the calcium, bone can be processed into paraffin blocks and cut into thin sections using a microtome. EDTA can also be used to chelate a number of other metals, including iron. Once the iron deposits have been removed from osseous bone, the iron deposits are also removed from cells at the same time. Consequently, bone marrow smears that have been decalcified in EDTA will generally stain negative for iron in bone marrow slides.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Anonymous · 2 months ago

1
answer

Is ECM590 compatible with Prussian blue staining, and does it work for both paraffin and frozen sections?

Technical Support · 2 months ago

It's uncertain whether it would be possible to dual stain a tissue section with a Prussian Blue staining procedure and the IHC kit ECM590. However, it's recommended to try the ECM590 kit and then perform the Prussian Blue staining procedure. The color contrast should not be a problem, but the use of

DAB for demonstrating both anti-von Willebrand Factor and anti-CD31 primary antibodies may lead to brown staining for both antibodies.

Helpful? [Yes • 0](#) [No • 0](#) [Report](#)

Anonymous · 2 years ago

What is the Department of Transportation shipping information for this product?

1
answer

Technical Support · 2 years ago

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

Helpful? [Yes • 0](#) [No • 0](#) [Report](#)

Anonymous · 2 years ago

Is it necessary to use the counterstain to view tissue Iron when using the Iron Stain Kit, Product HT20?

1
answer

Technical Support · 2 years ago

Iron in tissue samples (used for research) can be visualized without the Pararosaniline counterstain, which is used to allow improved visualization of the tissue.

Helpful? [Yes • 0](#) [No • 0](#) [Report](#)

Anonymous · 2 years ago

Can the Iron Stain Kit, Product HT20, be used to stain cultured cells, rather than blood or bone marrow?

1
answer

Technical Support · 2 years ago

This kit can be used to stain cultured mammalian cells, which should be treated as blood or bone marrow and follow instructions given for specimen collection in the Package Insert. We advise using some sort of positive control.

Helpful? [Yes • 0](#) [No • 0](#) [Report](#)

Anonymous · 2 years ago

1
answer

Is EDTA an acceptable anticoagulant for use with the Iron Stain Kit, Product HT20?

Technical Support · 2 years ago

Blood and bone marrow samples should be drawn without the use of EDTA as an anticoagulant. The EDTA chelates enough Iron to interfere with adequate staining. We advise using heparinized blood or freshly drawn blood which has not been anticoagulated.

Helpful? [Yes • 0](#) [No • 0](#) [Report](#)

Anonymous · 2 years ago

1
answer

Can I buy the reagents in Iron Stain Kit, Product HT20, separately?

Technical Support · 2 years ago

The reagents included in this kit are not available for separate purchase.

Helpful? [Yes • 0](#) [No • 0](#) [Report](#)

Reviews

★★★★★

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TECHNICAL SERVICE

Our team of scientists has experience in all areas of research including Life Science, Material Science, Chemical Synthesis, Chromatography, Analytical and many others.

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