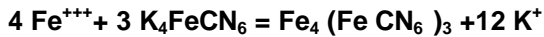


PERLS METHOD FOR FERRIC IRON

Histochemical method 10 Preparations

PRINCIPLE :

Potassium ferrocyanide reacts with ferric ions of hemosiderin in acid environment to form a coloured salt : Prussian Blue. Reaction takes place in ionic form as follows :



Prussian Blue

Although Perls reaction is specific for iron, it does not show all iron . in fact, iron bound to hemoglobin, to malarial pigment, to ferritin and to pigments deriving from acid formalin do not react. Ferrous iron (bivalent iron) does not react as well. .

SAMPLE :

Tissue sections or air- dry films of blood and bone marrow.

REAGENTS:

1.	Potassium ferrocyanide	50 ml
2.	Acid activation buffer	50 ml
3.	Eosin	25 ml

PROCEDURE:

1. Bring section to distilled water.
2. To Coplin jar 50 ml. add 40 ml of distilled water and 5 ml of reagent R1 and 5 ml of reagent R2 . Stir briefly and immerse section for 20 minutes.
3. Wash well in distilled water .
4. Put on the section 10 drops of reagent R3 : leave to act 10-15 sec. Wash in distilled water.
5. Dehydrate in ascending alcohol's; clear in xylene and mount

Results:

Ferric iron : Prussian blue .

REFERENCE:

Gomori G. Am .J. Path.1936; 12:655-633

BIO DIAGNOSTIC

DIAGNOSTIC AND RESEARCH REAGENTS

PERLS METHOD FOR FERRIC IRON

Histochemical Method
+15 to +25 °C 10 Preparations

CAT. No. PF 26 17

FOR DIAGNOSTIC AND RESEARCH USE

REAGENTS

R1	Potassium ferrocyanide	50 ml
R2	Buffer	50 ml
R3	Eosin	25 ml

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