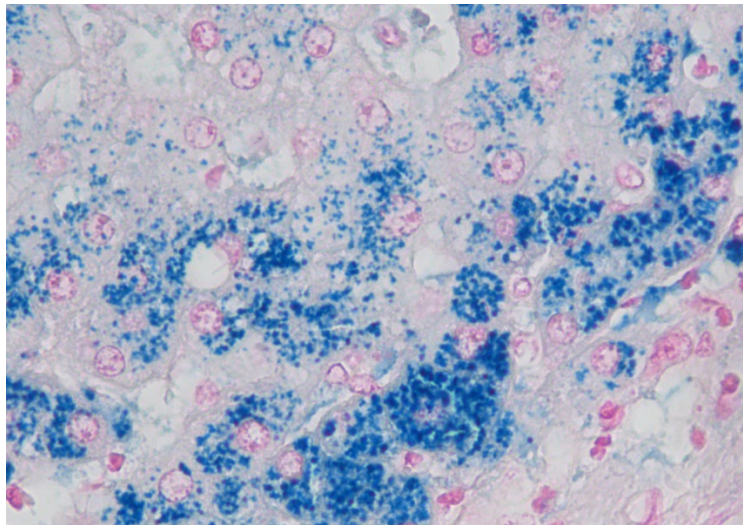




## PERLS



Liver

CODE	DESCRIPTION	TESTS NUMBER
04-180807	Perls	100 test



In Vitro Diagnostic – medical device  
IVD in **Class A**, Reg. UE 2017/746  
UDI-DI : 08033976231378  
Basic UDI : 080339762W01030799Y5



Manufacturer: Bio-Optica Milano S.p.A.

Product for the preparation of cyto-histological samples for optical microscopy.  
To show reactive ferric iron in tissue sections (method 1) and for haematology and cytology (method 2).

### 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:  $4 \text{Fe}^{+++} + 3\text{K}_4\text{Fe}(\text{CN})_6 = \text{Fe}_4(\text{Fe}(\text{CN})_6)_3 + 12 \text{K}^+$

### WARNING

False positive reactions are due to three main causes:

- Solution is too old (ferrocyanide-hydrochloric acid solution should be prepared just before use),
- Ferric ions contaminate glassware or the flotation bath's water (rust). To avoid this, never touch solution with metallic objects.
- Asbestosis: asbestos can be present in pathologic tissues and ferric salts on its fibres can react positively

### METHOD

#### METHOD FOR HISTOLOGICAL SECTIONS

- 1) Bring section to distilled water
- 2) Put on the section 10 drops of reagent A and 10 drops of reagent B: leave to act 20 minutes.
- 3) Wash well in distilled water.
- 4) Put on the section 10 drops of reagent C: leave to act 5 minutes.
- 5) Wash in distilled water
- 6) Dehydrate in ascending alcohols, clear in xylene and mount.

#### METHOD FOR HAEMATOLOGY AND CYTOLOGY

- 1) Fix air-dried smears in methanol for 3 minutes. Then air dry again.
- 2) Put on the section 10 drops of reagent A and 10 drops of reagent B: leave to act 20 minutes.
- 3) Wash well in distilled water.
- 4) Cover the smear with reagent C (10-12 drops): leave to act 5 minutes.
- 5) Wash in distilled water and air dry.



*The picture is for illustrative purposes only*

### Technical details

Method specifications	Procedure time	35 minutes	
	Complementary equipment	Not necessary	
	Results	Reactive ferric iron:	Blue
		Nuclei:	Red
Components	A) Potassium ferrocyanide solution	30 ml	
	B) Acid activation buffer	30 ml	
	C) Carmalum according to Mayer	30 ml	
Storage	Storage	Store the preparation at 15 - 25°C. Keep the containers tightly closed.	
	Storage temperature	15 - 25°C	
	Stability	After the first opening, the product is reusable until the expiry date, if correctly stored.	
	Validity	2 years	
Warning	Product classification	<p>The product is intended for professional laboratory use for healthcare professionals.</p> <p>Carefully read the information on the label (danger symbols, risk and safety phrases) and always consult the safety data sheet. Do not use if the primary container is damaged.</p> <p>In the event of a serious accident, we recommended that you immediately inform Bio-Optica Milano S.p.A and the competent authorities.</p>	
	Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.	

REVISION n°	REASON	REVISION DATE
001	Regulation adjustment UE 2017/746 - IVDR	16/05/2022