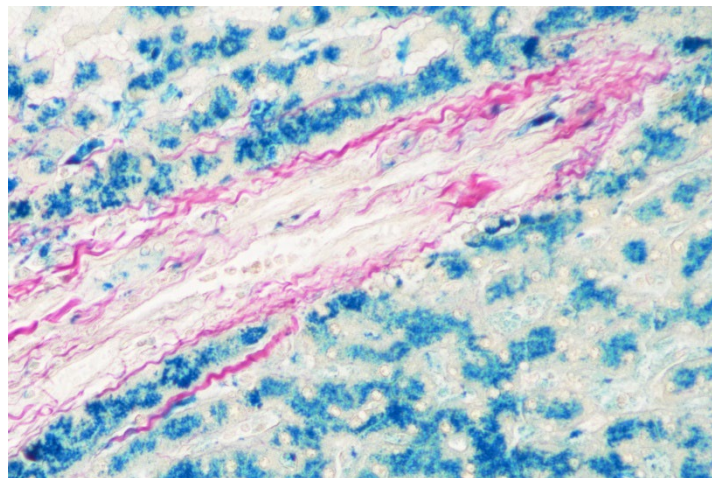




PERLS VAN GIESON



Liver

CODE	DESCRIPTION	TESTS NUMBER
04-181807	Perls Van Gieson	100 test



In Vitro Diagnostic – medical device
EMDN: W01030799
IVD in **Class A**, Reg. UE 2017/746
Basic UDI: 080339762W01030799Y5
UDI-DI: 08033976231408



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

Product for the preparation of cyto-histological samples for optical microscopy.
To show ferric iron, collagen and connective tissue in sections.

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: $4 \text{Fe}^{+++} + 3\text{K}_4\text{Fe}(\text{CN})_6 = \text{Fe}_4(\text{Fe}(\text{CN})_6)_3 + 12 \text{K}^+$
A counterstain with Van Gieson Picrofuch sine differentiates collagen from connective tissue.

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

- 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 10 minutes.
- 5) Wash in distilled water.
- 6) Dehydrate quickly through ascending alcohols, stop for 1 minute at the last absolute ethanol. Clear in xylene and mount.



The picture is for illustrative purposes only

Technical details

Method specifications	Procedure time	35 minutes	
	Complementary equipment	Not necessary	
	Results	Reactive ferric iron:	Blue
		Collagen:	Purple - Red
	Cytoplasm, muscle, corny layer of the skin, neuroglia and erythrocytes	Light yellow	
Components	A) Potassium ferrocyanide solution	30 ml	
	B) Acid activation solution	30 ml	
	C) Van Gieson Picrofuchsin	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. 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