

**Perls***Stain for iron***Manufacturer: Diapath S.p.A.**

Code	Test	Reagents	Code	Packaging
		Potassium ferrocyanide (II)	PMT0001	10x8 gr
010236	100	Hydrochloric acid 50%	G045AA	2x100 ml
		Kernechtrot (Nuclear Fast Red)	C048AA	1x30 ml

**Description**

The kit supplies reagents of Perls stain to highlight reactive ferric iron in histological sections. In acid environment, the acid potassium ferrocyanide solution reacts in presence of reactive ferric iron forming an insoluble blue precipitate (Prussian Blue). The kit provides nuclear red counterstaining

**Specimen and preparation kind**

- Preparation: paraffin section
- Suggested fixative: formalin
- Control: spleen
- Storage temperature: +15°/+25°C
- Procedure time: 35 min
- Critical step: use new reagents

**Staining protocol**

For histological specimens embedded in paraffin and cytological specimens fixed with spray, start from step 1. For cytological specimens fixed by heat or air, start from step 2.

Drain reagents directly on section.

To avoid section excessive drying, use an incubator box.

Use only well clean glassware, avoid contact with metallic tools.

- 1- Deparaffinize and hydrate to distilled water
- 2- Prepare acid solution of potassium ferrocyanide: melt n.1 vial of **Potassium ferrocyanide** in 80 ml of distilled water
- 3- Stir until to the complete powder melting then add 20 ml of **Hydrochloric acid**
- 4- Immerse the slides in the solution for 10-30 minutes (according to iron present in the tissue, the incubation time may change)
- 5- Wash in distilled water
- 6- Cover the sections with **Kernechtrot** for 5 minutes
- 7- Wash in distilled water
- 8- Dehydrate, clear and mount with balsam

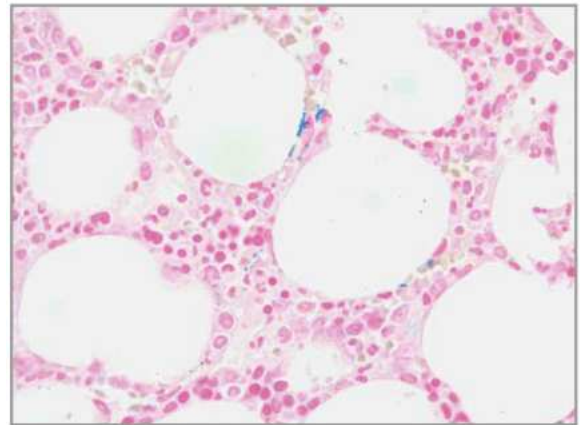
**NOTE:** The Kit allows to prepare 10 histological jars with the acid solution of potassium ferrocyanide (100 ml) that should be prepared soon before the use. Use it again could bring to false positives.

# DIAPATH

## Results

Reactive ferric iron:  
Nuclei:

Blue  
Red



## Quality control

The products and the raw materials are entered and constantly monitored by computer systems that allow traceability between batch number of each single product and batches of their raw materials.

## Instructions of use

To avoid mistakes, the product should be used by qualified and trained staff. Professional use product. The guidelines concerning safety on the workplace must be applied according to current regulations. The tools used for diagnosis must be suitable for diagnostic use in laboratory. The diagnosis should be performed only by authorized, trained and competent staff. Control sections should be used during each test to avoid incorrect results.

## Storage

Store the product according to the specifications listed on the label. The product, if opportunely stored and integrally packed, is stable up to the expiry date reported on the label. Do not use after expiration date.

If the reagent is not stored as recommended, its performance may change and must be validated by the user. After opening, the reagent is stable up to expiration date but only if stored in its container and in accordance with the specifications listed on the label. It is recommended to close the container tightly after the use.

## Disposal instruction

The expired and/or unused product must be disposed according to local waste regulations, based on danger classification on the label and after possible contaminations evaluation. In some cases it may be necessary an analytical evaluation to determine the correct waste classification and the danger features.

## Labeling legend



Batch n.



Manufacturer



Storage temperature limits



Product code



Expiry date



In vitro diagnostic medical device



Photosensitive

For more information see the MSDS.