

Perls – Van Gieson*Stain for iron and connective tissue***Manufacturer: Diapath S.p.A.**

| Code | Test | Reagents | Code | Packaging |
|--------|------|------------------------------|---------|-----------|
| | | Potassium Ferrocyanide (II) | PMT0001 | 10x8 gr |
| 010237 | 100 | Hydrochloric Acid 50% | G045AA | 2x100 ml |
| | | Picrofuchsin acc. Van Gieson | C060AA | 1x30 ml |

Description

The Kit supplies reagents for Perls stain to visualize reactive ferric iron on histological section.

The acid potassium ferrocyanide solution reacts in presence of reactive ferric iron forming an insoluble blue precipitate (Prussian Blue).

The Kit supplies as counterstaining the picrofuchsin acc. Van Gieson, a solution obtained by mixing two reagents: acid fuchsin, made by big molecules that penetrate and highlight collagen fibers, and picric acid, made by small molecules for the staining of collagen and muscle fibers, cytoplasm and erythrocytes.

Specimen and preparation kind

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

Staining Protocol

Drain reagents directly on section in a way to cover it completely
To avoid section excessive drying, use an incubator wet box.

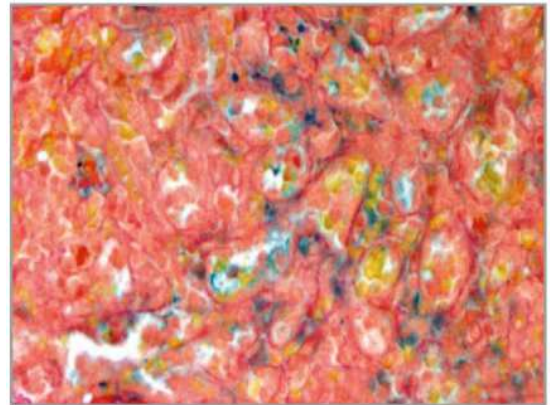
1. Deparaffinize and hydrate to distilled water
2. Prepare acid potassium ferrocyanide solution: melt n. 1 vial of **Potassium Ferrocyanide** in 80 ml of bidistilled water. Stir until the complete powder melting then add 20ml of **Hydrochloric Acid**
3. Dip slides into the solution for 10-30 minutes*
4. Wash in distilled water
5. Cover the sections with **Picrofuchsin acc. Van Gieson** for 5 minutes
6. Wash quickly in distilled water
7. Dehydrate quickly, xylene or substitutes. Mount in balsam.

*According to iron present in the tissue, the incubation time may change.

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

Results

| | |
|--|------------|
| Reactive ferric iron: | Blue |
| Collagen: | Purple Red |
| Cytoplasm, muscle, corneum stratum of the epithelium, neuroglia fibers and erythrocytes: | Yellow |

**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.