

Silver impregnation

Kit for identification of reticular connective tissue fibers

Manufacturer: Diapath S.p.A.

Use

Reagents for in vitro diagnostic use

Code	Test	Reagents	Code	Packaging
		Potassium permanganate sol.0.5% acc. Mallory	G012AA	1x30 ml
		Sulfuric acid 0.5% acc.Mallory	G004AA	1x30 ml
		Oxalic acid acc. Mallory	G027AA	1x30 ml
010211	100	Ferric ammonium sulfate 2%	G048AA	1x30 ml
		Ammonia solution	G049AA	1x30 ml
		Formaldehyde solution	G050AA	1x30 ml
		Sodium Thiosulfate 2%	G051AA	1x30 ml

Description

The kit is intended for use in histological visualization of connective tissue fibers. The argirophilic feature of reticular fibers is due to the capacity to bind silver salts, which reduced to metallic silver, give the typical black color.

Specimen and preparation kind

- Preparation: Paraffin section
- Suggested fixatives: Formalin
- Control: Liver
- Storage temperature: +4°/+8°C
- Procedure time: 25 min
- Critical step: Do not use metallic objects. Use fresh reagents. Pay attention to the possible detachment of the section from the slide.

Staining protocol

Drain reagents directly on section.

To avoid section excessive drying, use an incubator box.

1. Deparaffinize and hydrate to distilled water.
2. Prepare the working solution: 5 drops of **Potassium permanganate sol. 0.5% acc. Mallory** + 5 drops of **Sulfuric acid 0.5% acc. Mallory**. Cover the section with the solution for 5 minutes.
3. Wash in distilled water.
4. **Oxalic acid acc. Mallory** for 3 minutes.
5. Wash in distilled water.
6. **Ferric ammonium sulfate 2%** for 2 minutes.
7. Wash in distilled water.
8. **Ammonia solution** for 2 minutes.
9. Wash in distilled water.
10. **Formaldehyde solution** for 2 minutes.
11. Wash in distilled water.
12. **Sodium thiosulfate 2%** for 4 minutes.

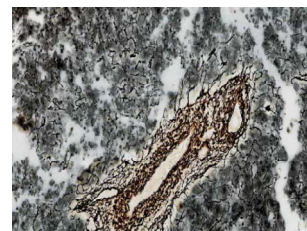
DIAPATH

13. Wash in running tap water.
14. Dehydrate quickly, clear and mount with balsam.

WARNING: The staining involves the use of alkaline solution which can cause the detachment of the section from the slide. We suggest the use of positively charged slides.

Results

Reticular and nervous fibers: Black
 Connective tissue: Brown
 Collagen: 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.