

**Movat pentachrome stain**

*Stain for collagen, muscle tissue, reticular fibers, mucins and fibrin*

**Manufacturer: Diapath S.p.A.**

**Use**

Reagents for diagnostic use in vitro

Code	Test	Reagents	Code	Packaging
		Alcian blue	C107AA	1x30 ml
		Alcohol-ammonia	G076AA	1x30 ml
		Hematoxylin Movat	C112AA	1x22.5 ml
		Hematoxylin 2	G078AA	1x7.5 ml
		Ferric chloride ICO 2%	G079AA	1x30 ml
010247	100	Sodium Thiosulphate 5%	G013AA	1x30 ml
		Biebrich Scarlet & Fuchsin	C111AA	1x30 ml
		Phosphotungstic Acid 5%	G054AB	1x30 ml
		Safranin	C066AA	1x30 ml

**Description**

The kit is intended for use in histological visualization of collagen, muscle tissue, reticular fibers, mucins and fibrin in paraffin section.

**Specimen and preparation kind**

- Preparation: Paraffin section
- Suggested fixative: Formalin
- Control: Liver, intestine
- Storage temperature: +15°/+25°C
- Procedure time: 2 h 30 min
- Critical step: Reagent C with limited stability

**Staining protocol**

Drain reagents directly on section in a way to cover it completely

To avoid section excessive drying, use an incubator wet box

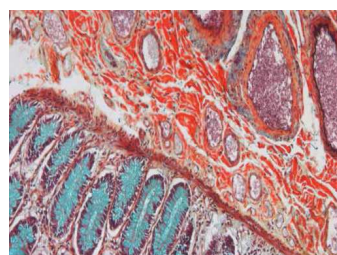
1. Deparaffinize and hydrate to distilled water
2. Cover the section with **Alcian blue** for 20 minutes
3. Wash in running tap water for 5 minutes
4. Cover the section with **Alcohol-ammonia** for 60 minutes
5. Wash in running tap water for 10 minutes
6. Prepare a solution adding **Hematoxylin Movat + Hematoxylin 2\***
7. Cover the section with the solution for 15 minutes
8. Wash in distilled water
9. Cover the section with **Ferric chloride ICO 2%** until elastic fibers turn black
10. Wash in distilled water
11. Wash in 0.5% acetic acid solution in distilled water
12. Cover the section with **Sodium thiosulphate 5%** for 1 minute
13. Wash in running tap water for 10 minutes
14. Wash in distilled water

15. Cover the section with **Biebrich Scarlet & Fuchsin** for 3 minutes
16. Wash in 0.5% acetic acid solution in distilled water
17. Cover the section with **Phosphotungstic Acid 5 %** for 10 minutes
18. Wash in 0.5% acetic acid solution in distilled water
19. Immerse slides in absolute ethyl alcohol (2 quick washings)
20. Cover the section with **Safranin** for 15 minutes
21. Wash in absolute ethyl alcohol for 2 minutes.
22. Clear and mount

**Warning** \*The hematoxylin solution is stable for about 6-9 months, store at room temperature. Alternatively, add 2 drops of **Hematoxylin Movat** + 1 drops of **Hematoxylin 2** and cover the section.

## Results

- Nuclei e elastic fibers: Black
- Collagen and reticular fibers : Yellow
- Mucins: Blue
- Fibrinoid substance, fibrin: Dark Red
- Muscle: 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.