



## Grimelius

*Staining kit for argyrophilic substances*

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

Code	Test	Reagents	Code	Packaging
		Silver nitrate 1%	G056AA	1x75 ml
010222	100	Acetate buffer ph 5.6	T020AA	1x75 ml
		hydroquinone + Sodium sulphite	PMT0003	3x1,5 gr
		Sodium thiosulphate 5%	G013AA	1x30 ml

### Description

The kit supplies reagents for Grimelius stain to highlight argyrophilic substances like pancreas alpha cells. Grimelius stain is also suitable to identify cells secreting argyrophilic substances as noradrenalin, serotonin, lipofuchsin.

### Specimen and preparation kind

- Preparation: Paraffin section
- Suggested fixatives: Formalin
- Control: Pancreas
- Storage temperature: +4°/+8°C
- Procedure time: 3 h 40 min
- Critical step: Reagent temperature. Do not use metallic objects. For the first impregnation, protect specimen from light covering the jar

### Staining protocol

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

**WARNING:** Use an oven at 60°C for the first impregnation. The second impregnation occurs at room temperature

1. Deparaffinize and hydrate section to distilled water
2. Prepare the Silver nitrate solution in a jar, roll up the jar with aluminum foil to protect the reagent from the light (preserve 1-2 ml of this solution for the second impregnation):  
40 ml of distilled water + 2 ml of **Silver nitrate 1%**+ 4 ml **Acetate buffer ph 5.6**

#### FIRST IMPREGNATION:

3. Cover the section with working solution of silver nitrate (step 2) and incubate in oven at 60 °C for 3 hours
4. Leave it cool at room temperature for 5 minutes
5. Drain the slide and go to the next step
6. Melt the vial of **hydroquinone + Sodium sulphite** in 25 ml of distilled water. Stir till the complete powder melting. (Preserve 1 – 2 ml of this solution for the second impregnation).
7. Immerse the slides in the reducing solution (step 6) and leave in oven at 60°C in the darkness for 5 minutes.
8. Leave it cool at room temperature
9. Wash in distilled water for 3 minutes

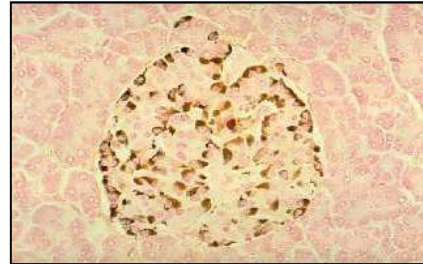
# DIAPATH

## SECOND IMPREGNATION:

10. Cover the sections with working solution of silver nitrate (step 2) at room temperature for 10 minutes
11. Drain the reagent from the slide and go to the next step
12. Cover the section with the reducing solution (step 6) at room temperature for 5 minutes
13. Wash in distilled water for 3 minutes
14. Cover the sections with **Sodium thiosulphate 5%** for 2 minutes
15. Wash in distilled water
2. Dehydrate, xylene or substitute, mount with balsam.

## Results

Argyrophilic granules: from light Brown to Black



## 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.