

# **Fouchet-Van Gieson, Kit**

Reference: AP0363



1 of 2

## **INTENDED USE AND PRESENTATION:**

For *in vitro* diagnostic use.

**AP0363.** 100 Tests.

## **APPLICATIONS:**

The Fouchet-Van Gieson kit was designed for demonstration of bilirubin and collagen in tissue sections.

The interpretation of the stain results is the full responsibility of the user. Any experimental result must be confirmed by a medically established diagnostic product or procedure.

## **PRODUCT COMPOSITION:**

The Fouchet-Van Gieson kit is composed by:

Reagent	Name	Volume	Storage
A	Trichloroacetic acid solution	30 mL	15-25 °C
B	Ferric chloride solution	30 mL	15-25 °C
C	Van Gieson Picrofuchsin solution	30 mL	15-25 °C

## **METHODS AND PROCEDURE:**

**Principles of the method:** The bilirubin is the derived without iron of the biliverdin. In its turn the biliverdin is the result of the degradation of the hemoglobin. The reaction happens mainly in the bony marrow, the spleen and the liver. In the liver of patients with obstructive icterus, the bilirubin appears as thrombi in the biliary canaliculus and granules in hepatocytes and cytoplasm of the cells of Kupfer. The pigment is insoluble in water and in the aqueous fixative, but it can change to the green colour in case of extended formalin fixation. The colour developed from the reaction of Fouchet has had to one strongly oxidoreduction of the complex and consequent transformation in biliverdin.

Warning: false positive reactions may be excluded with Perl's reaction, always negative for bilirubin.

**Specimen:** Paraffin-embedded tissue samples should be used.

**Procedure time:** 15 minutes.

### **Staining procedure:**

- 1) Deparaffinize and hydrate for paraffin section.
- 2) Put the slide in distilled water.
- 3) Put on the section 2-5 drops of **Reagent A** and 2-5 drops of **Reagent B** leave for 5 minutes.
- 4) Rinse in distilled water.
- 5) Put on the section 2-5 drops of **Reagent C** leave for 1 minute.
- 6) Dehydrate in alcohols of increasing clear in xylene and mount preparation.

See our web site at [www.gennova-europe.com](http://www.gennova-europe.com) for detailed protocols ancillary reagents and support products.

## **EXPECTED RESULTS:**

During the reaction of the different solutions of the kit with the tissue sections, resulting in the following stains:

Bilirubin	Green
Collagen	Red
Cytoplasm, muscle, cornified epithelium and neuroglia fibers	Yellow

## **REQUIRED MATERIALS BUT NOT SUPPLIED:**

All reagents, materials, and laboratory equipment for this procedure are not provided with this kit. This includes adhesive slides and cover slips, positive and negative control tissues, xylene or adequate substitute, ethanol, distilled H<sub>2</sub>O, pipettes, Coplin jars, glass jars, moist chamber, histological baths, mounting materials, and microscope.

Buffered solutions for and other auxiliary reagents are available from Genova Scientific.

## **STORAGE AND STABILITY:**

Store at 15-25 °C until the expiration date printed on product label. Do not use after the expiration date. Keep the containers tightly closed. After the first opening, the product is usable until the expiry date stated on label of intact product. Waste from solutions must be disposed under the procedure of hazardous substance. If the product is stored under different conditions from those stipulated in these technical indications, the new conditions must be verified by the user.

Genova Scientific guarantees that the product will maintain all of the described characteristics from the production date until the expiration date, as long as the product is stored and used as recommended. No other guarantees are provided. Under no circumstances is Genova Scientific obliged to cover damages caused by use of this reagent.



Catalog number



Batch code



In Vitro diagnostic medical device



Temperature limitation



Expiration date



Test number



Manufacturer



See instruction for use



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2 of 2

## **TROUBLESHOOTING:**

If unusual staining is observed or any other deviations from the expected results, please read these instructions carefully, and if this does not solve the problem, please contact Genova Scientific's technical support department or your local distributor.

## **PRECAUTIONS:**

Use only by qualified personnel. Read with attention the information written on the label (dangerous symbols, risks and safety phrases). Consult always the safety data sheet (MSDS) where the information about the risks of the preparation, precautionary measures during use, first aid and disposal are available. Use proper protective equipment in order to avoid contact with reagents and samples in the eyes, skin, and mucosal tissues. MSDS is available upon request.

## **PERFORMANCE CHARACTERISTICS:**

Genova Scientific has performed studies to evaluate the functioning of this product, concluding that the product is both specific and sensitive for recommended use.

## **BIBLIOGRAPHY:**

Glenner, G. C.: Simultaneous Demonstration of Bilirubin, Hemosiderin and Lipofuscin Pigments in Tissue Sections, Am J. Clin. Path., 27: 1-5; 1957  
Fouchet, J.: Comunicazione personale  
Gray, C. H.: Bile Pigments in Health and Disease, Springfield, Thanar 101; 1961  
Kutlik, S. E.: Uber die Methoden des histopochemischer Bilirubin und Biliverdinnachweiser, Acta Histochem., 4: 141-157; 1957  
Rich, A.R.: The Formation of Bile Pigment, Physiol. Rev., 5: 182-224; 1925

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