

## **Weigert-Van Gieson long method (for elastic fibres and connective), Kit**

Reference: AP0381



1 of 2

### **INTENDED USE AND PRESENTATION:**

For *in vitro* diagnostic use.

AP0381. 100 Tests.

### **APPLICATIONS:**

The Weigert-Van Gieson long method (for elastic fibres and connective) kit was designed to show elastic fibers, connective tissue, collagen and nuclei. Van Gieson trichromic stain is the method most commonly associated to Weigert.

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 Weigert-Van Gieson long method (for elastic fibres and connective) kit is composed by:

Reagent	Name	Volume	Storage
A	Periodic acid solution	30 mL	15-25 °C
B	Weigert's solution	30 mL	15-25 °C
C	Acid differentiation buffer	30 mL	15-25 °C
D	Weigert's iron hematoxylin A	30 mL	15-25 °C
E	Weigert's iron hematoxylin B	30 mL	15-25 °C
F	Van Gieson's Picrofuchsin solution	30 mL	15-25 °C

### **METHODS AND PROCEDURE:**

**Principles of the method:** The method is based on the affinity towards elastic fibers displayed by resorcin fuchsin, a precipitate resulting from a reaction between resorcin and basic fuchsin and ferric chloride. Since this is not an absolutely specific method, other structures such as collagen and basal membranes might be stained. Therefore it is essential to differentiate carefully in order to obtain a selective marked staining of elastic fibers. Weigert's "long method" differs from "quick method" in both staining mixture and procedure; it is more selective because staining mixture is less concentrated and incubation times are very long. Counterstaining with Van Gieson trichromic stain makes it possible to differentiate collagen from connectivum showing nuclei at the same time.

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

**Procedure time:** 40 minutes + overnight.

#### **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 leave them act 5 minutes.
- 4) Rinse in distilled water.
- 5) Put on the section 10 drops of **Reagent B**, close the container to avoid ethanol evaporation and incubate the slide overnight.
- 6) Rinse in distilled water.
- 7) Put on the section 2-5 drops of **Reagent C** and leave to act 10 minutes.
- 8) Rinse in distilled water.
- 9) In a separate tube, mix equal parts of **Reagent D** and **Reagent E**, put on the section and leave to act 10 minutes.
- 10) Wash in running tap water for 5 minutes.
- 11) Put on the section 2-5 drops of **Reagent F** and leave to act 5 minutes.
- 12) Rinse quickly (2-3 seconds) in distilled water.
- 13) 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:

Elastic fibers	From dark blue to black
Nucleus	Black
Collagen	Various shades of red
Connectivum, erythrocytes	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,



Catalog number



Batch code



In Vitro diagnostic medical device



Temperature limitation



Expiration date



Test number



Manufacturer



See instruction for use



**Genova Scientific, S.L.**  
C/ Johann Gutenberg, 4F. Pol. Ind.  
El Caamo I • 41300 San Jose  
de La Rinconada • Sevilla, SPAIN  
Telefono: +34 954 150767  
Fax: +34 955 266494

[info@genovalab.com](mailto:info@genovalab.com)  
[www.gennova-europe.com](http://www.gennova-europe.com)

**Weigert-Van Gieson long method (for elastic fibres and connective), Kit**

Reference: AP0381



2 of 2

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.

**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:**

French R W. Elastic tissue staining. Stain Technol 1929; 11-12.  
Pearse AGE. Histochemistry, theoretical and applied, 2nd Ed. Boston Little Brown and Co. 1960; pp. 165-175, 582-583, 816, 820-821.  
Weigert C. Ueber eine Methode zur Färbung elastischer Fasern. Zentralbl f allg Path Anat 1898; 9: 289-292.  
Carleton's Histological Technique Fourth edition Drury & Wallington Oxford 1966

F01IT04\_V1R0612\_AP0381\_English



Catalog number



Batch code



In Vitro diagnostic medical device



**Genova Scientific, S.L.**  
C/ Johann Gutenberg, 4F. Pol. Ind.  
El Cádiz I • 41300 San José  
de La Rinconada • Sevilla, SPAIN  
Teléfono: +34 954 150767  
Fax: +34 955 266494



Temperature limitation



Expiration date



Test number



Manufacturer



See instruction for use

[info@genovalab.com](mailto:info@genovalab.com)  
[www.genova-europe.com](http://www.genova-europe.com)