WEIGERT - VAN GIESON
for elastic fibers and connectivum (quick method)
04 – 053812/L

[IVD] In-vitro diagnostic medical device
CND Code: W01030799

number of tests ............................
procedure time ............................ 1 hour 20 minutes
product validity ............................ 2 years
storage temperature ..................... 15 - 25 °C
complementary equipment ........... graduated pipette

Expected aim
Product for the preparation of cyto-histological samples for optical microscopy.

Application
To show elastic fibers, connective tissue and nuclei at the same time. Recommended for vascular pathology.

Principle
The method is based on the affinity towards elastic fibers displayed by the dye resulting from a reaction between resorcin and basic fuchsin in the presence of ferric chloride. Since this is not 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. Counterstaining with Van Gieson trichromic stain makes it possible to differentiate collagen from connectivum showing nuclei at the same time.

Method
1) Bring section to distilled water.
2) Immerse the section in the reagent A: leave to act 5 minutes.
3) Rinse in distilled water.
4) Introduce the section in the reagent B, cap the container to avoid ethanol evaporation, and incubate 30 minutes.
5) Rinse in distilled water.
6) Immerse the section in the reagent C: leave to act 2 minutes.
7) Wash the slide in tap water 5 minutes.
8) Rinse in distilled water.
9) Immerse the section in the reagent D/E(previously mixed in equal quantity): leave to act 10 minutes.
10) Blue in running tap water 10 minutes.
11) Immerse the section in the reagent F: leave to act 10 minutes.
12) Rinse quickly (2-3 seconds) in distilled water and dehydrate rapidly through ascending alcohols; stop 1 minute in the last absolute ethanol; clear in xylene and mount.

Results
Elastic fibers .............................................................. From purplish red to brown
Nuclei ................................................................. Black
Collagen .......................................................... Various shades of red
Connectivum, erythrocytes .................................. Yellow

Reagents
A) Periodic acid solution .................................................. 1000 ml
B) Weigert's fuchsin-resorcin ........................................ 1000 ml
C) Acid differentiation buffer ......................................... 1000 ml
D) Weigert's iron hematoxylin - solution A ................. 1000 ml
E) Weigert's iron hematoxylin - solution B ................. 1000 ml
F) Van Gieson's picrorfuchsin ........................................... 1000 ml
Warning and precaution

The product must be used exclusively by specialized technical operators.
The product is classified as hazardous.
Read with attention the information written on the label (dangerous symbols, risks and safety phrases).
Consult always the safety data sheet where the information about the risks of the preparation,
precautionary measures during use, first aid and disposal are available. Do not use if primary packaging
is damaged.

Storage

Store the preparation at room temperature. Keep the containers tightly closed.

Stability

After the first opening, the product is usable until the expiry date, if correctly stored.

Disposal

Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.

References


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