

Van Gieson Staining Solution

Cat #: A-CSH324

Size: 50mL, 100mL

Storage: Room temperature, avoid light (12 months)

Product Composition

Component	Size		Store at
Van Gieson Staining solution	50ml	100ml	10~30°C, and were protected from light

Product Description

Collagen Fiber is the most widely distributed and abundant fiber in connective tissue, found extensively in various organs, with the highest content in the skin, sclera, and tendons. Type I collagen fibers are mainly found in bone, skin, and tendon fibers; Type II collagen fibers are mainly found in cartilage collagen; Type III collagen fibers are mainly present in embryonic tissues, adult blood vessels, and the gastrointestinal tract; Type IV collagen fibers are mainly found in basement membranes. The staining principle of Van Gieson's collagen fiber staining method is related to the size of the anionic dye molecules and tissue permeability. The size of the molecule is reflected by its molecular weight, with small molecular weight molecules easily penetrating dense and low-permeability tissues, while large molecular weight molecules can only enter loosely structured and highly permeable tissues. PA has the smallest molecular weight, followed by Acid Fuchsin and Ponceau S, while Light Green has the largest molecular weight. After VG staining, muscle fibers appear yellow, and collagen fibers appear red.

Usage

1. Dewax the sections to water.
2. Stain in Van Gieson's staining solution for 1-2 minutes.
3. Rapid differentiation with absolute alcohol.

4. Dehydrate with absolute ethanol, clear with xylene, and mount with neutral mounting medium

Staining Results

collagenous fiber	red
Muscle fibers, and the cytoplasm	yellow

Notes

1. The above reagents are irritants, please handle with care.
2. For your safety and health, wear laboratory attire and disposable gloves during the procedure.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.