



# Weigert – Van Gieson staining

## Indications

For staining of elastic fibers.

Used for the differentiation between elastic tissues, collagens and other types of connective tissues, even in early stages of disease.

In this staining method, the positively charged hydrophobic resorcin-fuchsin dye is available in abundance and is deposited by electropolarity on the acidic, negatively charged sheath of the elastic fibers. After differentiation with diluted alcohol or tapwater, the nuclei can be stained with Weigert's acid-fast iron hematoxylin. In the last stage, the connective tissue is counterstained with picrofuchsin acc. to van Gieson.

## Examples of results

Elastic fibers appear in dark blue-black, nuclei in black-brown, collagen in hues of red pink, and connective tissue, erythrocytes and muscle tissues in yellow

**A:** Human normal skin / **B:** Murine lung

**C:** murine hepatic portal system /

**D:** murine elastic artery

