

## Verhoeff-Van Gieson stain (VVG)- Elastin fiber

**Product name:** Verhoeff-Van Gieson stain (VVG) - Elastin fiber  
**Catalog No.:** TASS11

**Introduction:**

**Verhoeff-Van Gieson stain (VVG)** is a histological staining procedure developed by Frederick Herman Verhoeff in 1908. The Verhoeff stain is one of the most commonly-used stains to visualize elastic tissue, as found in blood vessel walls, elastic cartilage, lungs, skin, bladder, and some ligaments. The elastic fibers will be stained blue-black and background will be stained yellow.

**Form:**

Catalog No.	Size
TASS11	125ml

**Kit Contents (for 125ml kit):**

Kit Contents	Format	Recommend time	Storage
5% Alcohol hematoxylin	concentrate, 75ml	20 minutes.	25-28°C
10% Aqueous ferric chloride	concentrate, 30ml		25-28°C
Weigert's iodine solution	concentrate, 30ml		25-28°C
2% Aqueous ferric chloride	Ready to use,125ml	1-2 minutes.	25-28°C
5% Aqueous sodium thiosulfate	Ready to use,125ml	1-2 minutes.	25-28°C
Van Gieson's conterstaining	Ready to use,125ml	3 minutes.	25-28°C
Preparing before use: Verhoeff's working solution (5% Alcohol hematoxylin: 10% Aqueous ferric chloride: Weigert's iodine solution = 5:2:2)			



## Staining Protocol Recommendations:

1. Deparaffinize and hydrate slides to distilled water.
2. Stain in Verhoeff's solution for 20 minutes.
3. Rinse in tap water with 2-3 changes.
4. Differentiate in 2% ferric chloride for 1-2 minutes.
5. Wash slides in tap water.
6. Treat with 5% sodium thiosulfate for 1 minute. Discard solution.
7. Wash in running tap water for 5 minutes.
8. Counterstain in Van Gieson's solution for 3 minutes.
9. Dehydrate quickly through 95% alcohol, 2 changes of 100% alcohol.
10. Clear in 2 changes of xylene for 3 minutes each.
11. Coverslip with resinous mounting medium.

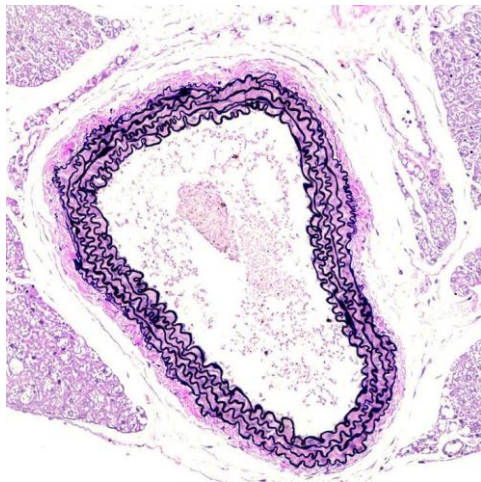
## Results:

Elastic fibers ----- blue-black to black

Nuclei ----- blue to black

Collagen ----- red

Other tissue elements ----- yellow



## Positive Controls:

Aorta, Kidney, Myometrium.

## Storage and Stability:

Please read the kit contents and follow the storage condition. The user must validate any other storage conditions. When properly stored, the reagent is stable until the date indicated on the label. Do not use the reagent beyond the expiration date. If unexpected results are observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Technical: [info@biotna.net](mailto:info@biotna.net)