

## Verhoeffs Elastic Van Gieson Stain Kit

IN VITRO DIAGNOSTIC DATASHEET

*This kit is useful in demonstrating atrophy of elastic tissue in cases of emphysema, and the thinning and loss of elastic fibers in arteriosclerosis, and other vascular diseases.*

**INTENDED USE :** IN VITRO DIAGNOSTIC USE

**DESCRIPTION :** The tissue is stained with a regressive haematoxylin, consisting of Ferric Chloride and Iodine. The differentiating is accomplished by using excess mordant (Ferric Chloride) to break the tissue mordant dye complex. The dye will be attracted to the larger amount of mordant in the differentiating solution and will be removed from the tissue. The elastic tissue has the strongest affinity for the iron-haematoxylin complex and will retain the dye longer than the other tissue elements.

### SPECIMEN COLLECTION :

Formaldehyde based fixative provides satisfactory results. Paraffin embedded tissues cut at 5 microns.

REAGENTS :	150 TEST
Haematoxylin 5% Alcoholic	1x 50ml
Ferric Chloride 10% Solution	1x 50ml
Van Gieson Stain	1x 50ml
Lugols Iodine	1x 50ml

*\* Number of TEST calculated according to 330 microliter per slide.*

**CATALOG NO :** PLKit40-150

**PROCEDURE TIME :** Approximate 35 minute.

### PREPARATION

Solution 1 (working solution):	Solution 2 (working solution):
5% alcoholic haematoxylin 20ml	10% Ferric Chloride 10ml
10% ferric chloride 8ml	Distilled water 40ml
Lugols Iodine 8 ml	

Make fresh every time.

### PROCEDURE

1. Deparaffinise and hydrate to water.
2. Stain in Solution 1 for 15-30 minutes.
3. Wash in Tap Water.
4. Differentiate in Solution 2, check microscopically for black fibers on a grey background.
5. Rinse in Water.
6. Rinse in 95% alcohol to remove staining due to iodine alone.
7. Counterstain in Van Gieson Stain for 5 minutes.
8. Blot to remove excess stain.
9. Dehydrate rapidly through alcohols, Clear in xylene and mount.

### RESULTS :

Elastic Tissue and Nuclei:	Black
Collagen:	Red
Other Tissue Elements:	Yellow

**STORAGE AND STABILITY :** This product is stable for 36 months when stored in +15 /+25 C

**TROUBLESHOOTING :** Please contact Patolab Technical Support by e-mail ( patolab@patolab.com.tr ).