



## VitroView™ Congo Red Amyloid Stain Kit

SKU No. VB-3011

### Introduction

This kit is used for the detection of amyloid in formalin-fixed, paraffin-embedded tissue sections with amyloidosis, and may be used for frozen sections as well. Amyloid deposits will stain red, while nuclei will stain blue. The thickness of sections is usually 5  $\mu\text{m}$ . However, in cases containing low amyloid deposits, 10 $\mu\text{m}$  thick sections will give better results.

### Kit Components

- VB-3011-1 Congo Red Solution -----250 ml
- VB-3011-2 Alkaline Alcohol Solution -----250 ml
- VB-3011-3 Mayer's Hematoxylin Solution --- 250 ml

### Storage

Room temperature.

### Protocol

1. For paraffin-embedded tissue sections, deparaffinize and hydrate to 70% alcohol. Rinse in distilled water. For frozen sections, dry sections for 5 minutes. Fix sections in neutral formalin solution for 20 minutes. Rinse in distilled water.
2. Stain in congo red solution for 15-20 minutes.
3. Rinse in distilled water.
4. Differentiate quickly (5-10 dips) in alkaline alcohol solution.
5. Rinse in tap water for 1 minute.
6. Counterstain with Mayer's hematoxylin for 30 seconds.
7. Rinse in tap water for 2 minutes.
8. Dehydrate through 95% alcohol, 2 changes of 100% alcohol, 3 minutes each.
9. Clear with 3 changes of xylene (5 minute per change)
10. Mount coverslip onto glass slide with Permount or some other suitable organic mounting medium.

### Results

- Amyloid, elastic fibers, eosinophil granules ----- red
- Nuclei ----- blue

### Positive Controls

Know amyloidosis containing tissue (i.e. Alzheimer's disease).

### Precautions

Handle with care. Avoid contact with eyes, skin and clothing. Do not ingest. Wear gloves.