Highman's Congo Red Stain Kit

CONG-KHI-100

Storage conditions

Store at 15 - 25 °C, protected from fire and sunlight. Stability of 2 years under recommended storage conditions.

Procedure duration

~20 min.

Content

A. Congo red staining solution according to Highman (50 ml)
B. Potassium hydroxide solution (50 ml)

Application

Staining method for amyloid deposits in tissues. Suitable for paraffin sections fixed in 10% formalin. Amyloid deposits are formed in tissues spontaneously or in association with a wide range of diseases. In cases of suspected amyloidosis, sections of 12 µm would be recommended for demonstrating the presence of such deposits of amyloid.*

*All reagents have been optimally prepared for use and require no mixing or diluting.

**Use positive charged slides to avoid loss of tissue section

Method

1. Deparaffinize and bring sections to distilled water
2. Stain with reagent A for 10 min
3. Rinse with distilled water
4. Differentiate with reagent B for 10-40s (to be determined according current laboratory requirements)

Optional: Nuclei staining in Gill-2, Gill-3 or Mayer's haematoxylin for 3-5 min

5. Wash with tap water for 5 min
6. Dehydrate through ascending alcohols. Clear with Xylene, mount (optional) and examine

Visualization

Amyloid: Pink to red (apple-green birefringence with polarized light)

Nuclei: Blue if contra-stained