

**DESCRIPTION**

Rapid Phosphotungstic Acid Hematoxylin (Rapid PTAH) Stain kit is used to demonstrate cross-striations of skeletal muscle as well as fibrin and collagen. Rapid PTAH is mercury free, and is used on formalin fixed, paraffin embedded (FFPE) tissue. Muscle striations, fibrin and nuclei are stained various shades of blue while collagen, reticulum, basement membranes and cartilage are stained various shades of red to red-brown. The Rapid PTAH is available in kits of 250 ml and 500 ml.

**KIT CONTAINS**

- Solution A- Langeron's Iodine
- Solution B- 5% Sodium Thiosulfate
- Solution C- Phosphotungstic Acid Hematoxylin

**PROCEDURE**

1. Deparaffinize and hydrate tissue sections to water.
2. Preheat Phosphotungstic Acid Hematoxylin to 60° C.
3. Place slides in Langeron's Iodine for 10 minutes.
4. Transfer to 5% Sodium Thiosulfate for 5 minutes.
5. Rinse in tap water for 5 minutes.
6. Stain in preheated Phosphotungstic Acid Hematoxylin for approximately 1 hour at 60° C.
7. Quickly dehydrate slides in 95% ethanol, 2 changes of 100% ethanol and clear in xylene.
8. Coverslip using a synthetic resin.

**RESULTS**

Muscle, nuclei, cytoplasm, fibrin, and keratin- various shades of blue  
Collagen, basement membranes, reticulum, and cartilage- various shades of red to red-brown

**STORAGE**

All reagents should be protected from light. Store at room temperature.  
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.

**SAFETY**

Work in a well ventilated area, wear gloves (nitrile), lab coat and goggles. Avoid contact and inhalation. Picric acid: can become explosive if allowed to dry out. Toxic through skin exposure.

**STORAGE AND HANDLING**

Store at room temperature. Glove, chemical goggles, and fume hood.

**ORDERING INFORMATION**

Cat. #	Description	Sizes
25715-250	Rapid PTAH Stain Kit	250mL Kit
25715-500	Rapid PTAH Stain Kit	500mL Kit

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