

Mallory Acid Hematoxylin stain kit (natural oxidation method)

Muscle fiber is a component of muscle tissue, composed of muscle cells. According to morphological and functional characteristics, it can be divided into smooth muscle (also known as striated muscle), skeletal muscle, and cardiac muscle. There are many methods of muscle fiber staining, such as ponceau red method, aniline blue method, tungstophosphotungstic acid hematoxylin method. When the tungstophosphotungstic acid hematoxylin stain solution was first invented, there were many tungstophosphohematoxylin methods in Mallory's PTAH method. Around 1900, Mallory combined the hematoxylin stain solution and phosphotungstic acid aqueous solution, and found that this method was better for muscle fiber staining. , and now widely used is Mallory phosphotungstic acid hematoxylin stain solution (PTAH natural oxidation method). Hematoxylin can be chemically oxidized by PTAH, but the validity period is very short, and the staining power is easy to decrease. The best preparation method is to oxidize and mature the phosphotungstic acid hematoxylin solution under natural conditions, which takes about several months. Although natural oxidation takes a long time, the hematoxylin produced in this way can be used for more than 2 years, and the staining power is not easy to lose, so it is an ideal stain solution. Suitable for CNS, general tissue structures, and tissues fixed with all standard fixatives. Staining times vary depending on the preparation method, the fixative used, and the tissue structure revealed. Phosphotungstic acid hematoxylin stain solution is commonly used in the staining of smooth muscle, especially for displaying the striations of striated muscle. This method is used clinically to diagnose rhabdomyosarcoma. The histological morphology of rhabdomyosarcoma varies widely, and it is difficult to distinguish it from undifferentiated mesenchymal tumors. Staining with phosphotungstic acid hematoxylin and blue stripes in the cytoplasm of the tumor indicate that The tumor can be demonstrated to show striated muscle differentiation. The stain solution can also stain cellulose exuded by inflammation, cellulose in DIC capillaries, and neuropathology. The Mallory PTAH stain solution in the Mallory Phosphotungstic Acid Hematoxylin stain kit (PTAH Natural Oxidation Method) is a 6-month naturally matured stain solution with good staining power and long storage time.

Catalog No.	260021
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Size	3 x 100mL
Product Category	Histochemical Stain
Storage/Stability	Ambient/2 years
Shipping	Ambient

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