Celestine Blue Stain Solution

Introduction

H&E staining, a combination of Hematoxylin and Eosin, is the most widely used staining technique in pathology and histology. During Van Gieson staining, due to the effect of acid, most of the hematoxylin color is washed out, making the nuclei barely distinguishable. To address this issue, the use of Iron Hematoxylin or Celestine Blue can effectively resist the effect of acid, achieving ideal staining results.

Celestine Blue Staining Solution consists mainly of 0.5% Celestine Blue B and is frequently used in conjunction with Alum Hematoxylin. The advantage of this combination is that Celestine Blue B possesses excellent acid resistance, and the ferric salts can enhance the binding force of Alum Hematoxylin to the nucleus, resulting in deeper nuclear staining. Therefore, this combination not only achieves the purpose of acid resistance but also ensures that the hematoxylin color is not easily washed out.

Storage

Store at 4°C, stable for 1 year.

Protocol

1. Deparaffinize the paraffin sections and hydrate through a graded ethanol series to distilled water.
2. Immerse in Celestine Blue solution for 3-5 min, then rinse with distilled water for 5-10 sec.
3. Proceed with subsequent operations according to experimental requirements.

Note

1. Staining intensity diminishes over time; prolong staining duration as needed. Increase staining time for tissues fixed in unbuffered formalin or decalcified tissues. Reduce staining time for frozen sections.
2. For research use only. Not to be used in clinical diagnostic or clinical trials.

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