

Celestine Blue Hematoxylin Staining Solution

Cat #: A-CSH261

Size: 2x50mL

Storage: 2-8 °C, Avoid exposure to light (1 year)

Product Description

Component	Volume
Reagent (A): Azure B staining solution	50mL
Reagent (B): Mayer's Hematoxylin staining solution	50mL

The main drawback of pure alum hematoxylin staining for cell nuclei is its sensitivity to subsequent application of any acidic dyes, commonly seen in Van Gieson staining and Masson's trichrome staining. When using acid fuchsin in Van Gieson staining, it can remove most of the hematoxylin color, making the cell nuclei almost invisible. In such cases, the use of iron hematoxylin can counteract the effect of acid fuchsin and achieve satisfactory results.

Currently, a reliable method is the combination of Azure B and alum hematoxylin. Its advantage lies in the acid resistance of Azure B. The high iron salt in the Azure B solution enhances the binding between alum hematoxylin and the cell nuclei, resulting in a deeper staining of the cell nuclei. Therefore, the purpose of acid resistance can be achieved.

Usage

1. Deparaffinize the paraffin-embedded tissue sections by gradually hydrating in ethanol to water.
2. Immerse the sections in Azure B staining solution for 5 minutes.
3. Rinse with distilled water.
4. Immerse the sections in Mayer's Hematoxylin staining solution for 5 minutes.
5. Rinse the sections in water to blue.
6. Continue with further procedures as required.

Staining Results

Cell Nucleus	Blue
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Notes

1. With prolonged incubation time, the staining intensity may decrease, and the staining time should be extended accordingly.
2. The staining intensity decreases faster with increased usage of the staining solution, requiring longer staining time.
3. The staining time for frozen sections should be shortened, while tissues with longer immersion time in formalin solution without buffering and decalcified tissues may require an extended staining time.
4. For your safety and health, please wear laboratory attire and disposable gloves while performing the procedure.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.