

Crystal Violet-Lemon Juice Staining Solution (0.1%)

Cat #: A-CSH301

Size: 100mL

Storage: Room temperature, avoid light (6 months)

Product Composition

Component	Size	Store at
Crystal violet-citric acid stain (0.1%)	100ml	10~30°C, and were protected from light

Product Description

Crystal violet is an alkaline dye that can bind to DNA in the cell nucleus for nuclear staining. Crystal violet-acetic acid staining solution (0.1%) is primarily composed of crystal violet and acetic acid. It is a commonly used staining solution for tissue or cell staining, resulting in a deep purple coloration of the cell nucleus.

Usage

I. Sample Preparation

For paraffin sections:

1. Deparaffinize the sections in xylene for 5-10 minutes.
2. Replace with fresh xylene and deparaffinize for another 5-10 minutes.
3. Rinse in absolute ethanol for 5 minutes.
4. Rinse in 90% ethanol for 2 minutes.
5. Rinse in 70% ethanol for 2 minutes.
6. Rinse in distilled water for 2 minutes.

For frozen sections:

1. Rinse in distilled water for 2 minutes.

For cultured cells:

1. Fix with 4% paraformaldehyde for at least 10 minutes.
2. Rinse in distilled water for 2 minutes.
3. Replace with fresh distilled water and rinse for another 2 minutes.

II. Staining:

1. Stain the sections with crystal violet-acetic acid staining solution for 10 minutes (adjust the time based on staining results and requirements).
2. Thoroughly rinse with distilled or tap water for observation and photography.

Staining Results

Tissue or cell	Deep purple
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Notes

1. If dehydration, clearing, and mounting are required, prepare xylene, neutral gum, or other mounting agents.
2. It is recommended to perform a preliminary experiment using 1-2 samples when using this reagent for the first time.
3. Crystal violet is slightly harmful to the human body, so proper protection should be taken.
4. For your safety and health, please wear appropriate protective gear, such as lab coats 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.