

Crystal Violet Aqueous Solution (1%)

Cat #: A-CSH300

Size: 100mL, 500mL

Storage: Room temperature, avoid light (6 months)

Product Composition

Component	Size		Store at
Crystal violet aqueous solution (1%)	100ml	500ml	10~30°C, and were protected from light

Product Description

Crystal violet, also known as methyl violet, is an alkaline dye that is soluble in water and ethanol. It can stain tissues and cell nuclei purple. Crystal violet is primarily used in the fields of cytology, histology, and bacteriology as an excellent staining agent.

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. Rinse in absolute ethanol for 5 minutes.
3. Rinse in 90% ethanol for 2 minutes. Rinse in 70% ethanol for 2 minutes. Rinse in distilled water for 2 minutes.

For frozen sections: Rinse in distilled water for 2 minutes.

For cultured cells:

1. Fix with 4% paraformaldehyde for at least 10 minutes (or follow these steps: add 5 ml of PBS/methanol solution to

every 25 cm², let it stand for 2 minutes, discard the solution; add 5 ml of fresh methanol, let it stand for 10 minutes, discard the solution).

2. Rinse in distilled water for 2 minutes.

3. Replace with fresh distilled water and rinse for another 2 minutes.

II. Crystal Violet Staining

1. Stain the samples with a 0.1% crystal violet aqueous 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. Crystal violet is harmful to the human body, so proper protection should be taken.

2. It is recommended to perform a preliminary experiment using 1-2 samples when using this reagent for the first time.

3. 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.