

Crystal Violet Aqueous Solution (0.1%)

Cat #: A-CSH298

Size: 100mL

Storage: Room temperature, avoid light (12 months)

Product Composition

Component	Size	Store at
Crystal violet aqueous solution (0.1%)	100ml	10~30°C, and were protected from light

Product Description

Crystal Violet, also known as gentian violet, has a molecular formula of $C_{25}H_{30}N_3Cl \cdot 9H_2O$, a molecular weight of 407.98, and CAS number 548-62-9. Crystal Violet is an alkaline dye that can dissolve in water and ethanol. It can stain tissues and cell nuclei purple. Crystal Violet finds extensive applications in cytology, histology, bacteriology, and other fields, making it an excellent staining agent.

Usage

1. Sample Preparation:

(a) For paraffin sections:

1. Deparaffinize in xylene for 5-10 minutes.
2. Repeat deparaffinization with fresh xylene for 5-10 minutes. Rinse in absolute ethanol for 5 minutes.
3. Rinse in 90% ethanol for 2 minutes, followed by 70% ethanol for 2 minutes, and then distilled water for 2 minutes.

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

(c) For cultured cells:

1. Fix with 4% paraformaldehyde for at least 10 minutes (or follow these steps: add 5 ml of PBS/methanol solution per 25 cm², incubate for 2 minutes, discard the solution; add fresh methanol 5 ml, incubate for 10 minutes, discard the

solution).

2. Rinse in distilled water for 2 minutes.

3. Rinse in fresh distilled water for an additional 2 minutes.

2. Crystal Violet Staining:

(a) Stain with a 0.1% aqueous solution of Crystal Violet for 10 minutes (adjust the time based on staining results and requirements).

(b) 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 please take appropriate precautions.
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 a lab coat and disposable gloves while handling.

Disclaimer

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