

Crystal Violet Staining Kit

Catalog No.: RA20104

Basic Information

Product name	Crystal Violet Staining Kit
Sizes	100 mL, 500 mL
Storage	RT
Shipping	RT
Validity	12 months

Product Introduction

Crystal violet (also known as methyl violet) has the molecular formula $C_{25}H_{30}N_3Cl \cdot 9H_2O$, a molecular weight of 407.98, and CAS number 548-62-9. It is a basic dye, soluble in water and ethanol, and stains tissues and nuclei purple. Crystal violet is widely used in cytology, histology, bacteriology and other fields, and is an excellent staining agent.

Crystal Violet Staining Solution is mainly composed of crystal violet and deionized water. It can be used for clonogenic assays, cell migration assays and other experiments.

Experimental procedure

1. Sample Preparation

- ① For paraffin sections:
 - Dewax in xylene or eco-friendly dewaxing solution for 5–10 min.
 - Change to fresh xylene or dewaxing solution and dewax again for 5–10 min.
 - 100% ethanol for 5 min.
 - 90% ethanol for 2 min.
 - 70% ethanol for 2 min.
 - Distilled water for 2 min.
- ② For frozen sections:
 - Distilled water for 2 min.
- ③ For cultured cells:
 - Fix with 4% paraformaldehyde for ≥ 10 min (alternatively, add 5 mL PBS/methanol per 25 cm², stand 2 min, discard; add 5 mL fresh methanol, stand 10 min, discard).
 - Rinse with distilled water for 2 min.

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Replace with fresh distilled water and rinse again for 2 min.

2. Crystal Violet Staining

- ① Stain with Crystal Violet Staining Solution for 5–10 min (adjust time according to staining intensity and experimental requirements).
- ② Rinse thoroughly with distilled water or tap water, then observe and photograph.

Staining Results

Component	Color
Tissue or cells	Deep purple

Notes

1. Crystal violet is harmful to humans; handle with appropriate protection.
2. When using this reagent for the first time, it is recommended to perform a pilot test with 1–2 samples.
3. For your safety and health, wear a lab coat and disposable gloves during operation.
4. Use the reagent promptly after opening to avoid affecting subsequent experimental results.

This product is for research use only!