

Crystal Violet Staining Solution

Introduction

Crystal violet is a common alkaline dye, which stains nuclei with a deep purple color. Crystal Violet Staining Solution is extensively used in many bioassays, such as colony formation, cell migration, and cell invasion assay.

Components and Storage

| Components | K1184-100 mL | K1184-500 mL |
|--|--------------|--------------|
| Crystal Violet Staining Solution | 100 mL | 500 mL |
| Store the solution at room temperature away from light. Stable for 1 year. | | |

Protocol

1. Sample pretreatment

1) Paraffin section

- ① Soak the sections in the xylene 2 times (5-10 min/per time) to remove the wax
- ② Absolute ethanol treatment for 5 min
- ③ 90% ethanol treatment for 2 min
- ④ 80% ethanol treatment for 2 min
- ⑤ 70% ethanol treatment for 2 min
- ⑥ Rinse with distilled water for 2 min

2) Frozen section

- ① Rinse with distilled water for 2 min

3) Culture cell

- ① 4% paraformaldehyde fixation for at least 10 min
- ② Rinse with distilled water 2 times (2 min/per time)

2. Sample staining

- 1) Crystal Violet Staining Solution treatment for 10 min

***Note:** The time of crystal violet staining can be adjusted according to the experimental needs.

2) Rinse with distilled water, dry and examine directly under the microscope

■ Note

1. For the first time using this solution, it is recommended to take 1-2 samples for a preliminary test.
2. Crystal violet is potentially toxic. Please pay attention to the protection.
3. For your safety and health, please wear lab coats and gloves during the experiment.
4. For research use only. Not to be used in clinical diagnostic or clinical trials.



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