

Methyl Green Staining Solution

Introduction

Methyl green is an alkaline dye. It can bind to the nuclei, causing the nuclei to be green in color. Methyl Green Staining Solution is commonly employed in tissue or cultured cell staining procedures, and it stains the nuclei green. This solution can be used in conjunction with immunofluorescence or immunohistochemical staining. This solution can stain at least 200 samples.

Components and Storage

Components	K1180-100 mL
Methyl Green Staining Solution	100 mL
Store the solution at room temperature away from light. stable for at least 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) Methyl Green Staining Solution treatment for 5-10 min

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

- 2) Rinse with distilled water quickly for 2 times
- 3) 95% ethanol treatment for 5 s
- 4) Rinse with 70% ethanol 2 times and then watch directly under a microscope. If needing dehydration, clearing or sealing, please follow the next step

3. Dehydration, clearing, sealing

- 1) 95% ethanol treatment 2 times (2 min/per time)
- 2) Dip in xylene 2 times (5 min/per time)
- 3) Mount with neutral balsam mounting medium

4. Other staining (Optional step)

If immunofluorescence staining is required, follow the next steps after Methyl Green staining (Step 2):

- 1) Rinse with 70% ethanol 2 times (2 min/per time)
- 2) Dip in PBS or TBST for 5 min
- 3) Perform the immunofluorescence staining as usual

5. Staining result

Nuclei	Green or blue-green
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Note

1. For the first time using this solution, it is recommended to take 1-2 samples for a preliminary test.
2. The time of Methyl Green staining can be adjusted according to the experimental needs.



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