Nuclear Fast Red Staining Solution

Introduction

Nuclear Fast Red Staining Solution is an ideal counterstaining in tissue staining, which stains nuclei red. This solution is suitable for the paraffin section and frozen section. This solution is ready for use, and it can be reused, but reusing the stain solution many times will affect the staining.

Components and Storage

Components	K1187-100 mL
Nuclear Fast Red Staining Solution	100 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

2. Other staining (optional step)

3. Nuclear Fast Red Staining

1) Drop 50-100 μL Nuclear Fast Red Staining Solution into the sample for 5-10 min

*Note: The time of Nuclear Fast Red staining can be adjusted according to the experimental needs.

2) Rinse with tap water 2 times quickly

*Note: Nuclear fast red is soluble in water. So the time of rinsing should not be too long.

3) Perform dehydration, clearing and sealing as usual. Examine directly under the microscope

*Note: Nuclear fast red is soluble in ethanol. So the time of dehydration should not be too long. And the mounting media should not have water or ethanol.

4. Staining result

Nuclei	Red

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 nuclear fast red staining can be adjusted according to the experimental needs.
3. This solution is colloid. If the solution occurs precipitate, heat the solution in the boiling water bath for 5-10 min and then use it as usual.
4. Nuclear fast red is soluble in water and ethanol. So the time for rinsing and dehydration should not be too long. And the mounting media should not have water or ethanol.
5. For your safety and health, please wear lab coats and gloves during the experiment.
6. For research use only. Not to be used in clinical diagnostic or clinical trials.

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