

Eosin Y Aqueous Solution (0.5%)

Introduction

Eosin is a synthetic dye that typically appears as a peach-pink or pink powder. It is most commonly used in conjunction with hematoxylin to visualize the morphology of normal or pathological tissues.

This reagent is suitable for bacterial staining, smear preparations, and tissue counterstaining. Additionally, it is applicable for Field's staining of blood cells and can be used for live/dead cell discrimination. The solution can be used directly or after dilution, with a recommended working concentration of 0.1%-1%.

Storage

Store at room temperature protected from light, stable for 1 year.

Protocol

1. Materials Required but Not Included

- 1) 4% paraformaldehyde
- 2) Graded series of ethanol
- 3) Distilled water

2. Sample Preparation

- 1) Paraffin sections: Deparaffinize with xylene twice, 5-10 min each. Rehydrate through a graded series of ethanol, 2 min per grade, and finally rinse in distilled water for 2 min.
- 2) Frozen sections: Warm to room temperature after removal, then rinse in distilled water for 2 min.
- 3) Cultured cells: Fix with 4% paraformaldehyde for at least 10 min, followed by two rinses with distilled water, 2 min each.

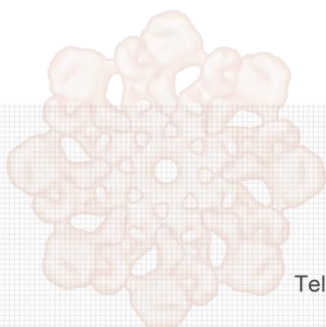
3. HE Staining (Hematoxylin & Eosin)

- 1) Hematoxylin staining: Stain for 5-20 min (adjust time based on staining results and experimental requirements), then rinse with water.
- 2) Hydrochloric acid alcohol differentiation: Differentiate for 30 sec.
- 3) Bluing: Soak in tap water for 15 min or warm water (approx. 50°C) for 5 min.

- 4) Eosin staining: Stain for 2 min.
- 5) Rinse under running tap water.
- 6) Dehydration: Dehydrate twice in 95% alcohol, 2 min each, followed by dehydration twice in absolute ethanol, 2 min each.
- 7) Clearing: Clear with xylene twice, 5 min each.
- 8) Mounting: Mount with neutral balsam or other mounting medium.

■ Note

1. If dehydration, clearing, and mounting are required, xylene, neutral balsam, or other mounting media must be prepared separately.
2. For your safety and health, please wear lab coats and gloves during the experiment.
3. For research use only. Not to be used in clinical diagnostic or clinical trials.



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