

Eosin Y Alcoholic 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 incorporates a specialized preservative and is easy to use, avoiding hazardous reagents such as mercury and methanol. It is widely used for staining tissue sections or cultured cells, imparting a pink or red color to the cytoplasm upon completion.

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, 3 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)

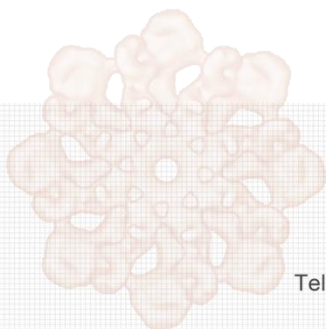
- 1) Hematoxylin staining: Stain for 2-10 min (adjust time based on staining results and experimental requirements), then rinse with water.
- 2) Hydrochloric acid alcohol differentiation: Differentiate for 5–10 sec, then rinse with water.
- 3) Running tap water wash: Wash for 10 min. Use bluing solution for bluing or treat with tap water directly

until blue, then rinse with distilled water.

- 4) 95% alcohol treatment: Treat with 95% alcohol for 1 min.
- 5) Eosin staining: Stain for 10-30 sec.
- 6) Dehydration: Dehydrate twice in 95% alcohol, 3-5 sec each, followed by dehydration twice in absolute ethanol, 3-5 sec 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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