

中性红染色液(0.1% 常规染色)

货号: G1316

规格: 100mL/500mL

保存: 2-8℃, 避光保存, 有效期 1 年。

产品介绍:

中性红是一种弱碱性 pH 指示剂, 变色范围在 pH6.4~8.0 之间(由红变黄)。分子式为 $C_{15}H_{16}N_4 \cdot HCl$, 分子量为 288.78。在中性或微碱性环境中, 植物的活细胞能大量吸收中性红并向液泡中排泌。中性红染色液(0.1%, 常规染色)是一种组织或细胞染色时常用的可以把细胞核染成红色的染色液, 常用于组织或细胞染色中细胞核的红色复染。

操作步骤: (仅供参考)

1. 样品处理

石蜡切片二甲苯中脱蜡 2 次每次 5-10min。系列乙醇(100%、95%、85%、75%)复水, 每梯度 3min。蒸馏水 2min。冰冻切片取出恢复至室温后蒸馏水浸洗 2min。

培养细胞用 4%多聚甲醛固定 10min 以上。蒸馏水清洗 2 次, 每次 2min。

2. 中性红染色

- 对于上述处理好的样品, 用中性红染色液(0.1% 常规染色)染色 30min-1h。
- 用蒸馏水或自来水充分洗涤。
- 进行观察和拍照。

注意事项:

- 如果需要脱水、透明和封片处理, 还需自备二甲苯, 中性树胶或其它封片剂。如果样品是石蜡切片, 需自备 70%和 90%乙醇, 无水乙醇以及二甲苯。
- 首次使用本试剂时建议先取 1~2 个样品做预实验。
- 中性红染色时, 可以根据染色结果和要求调整时间。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

Neutral Red Solution, 0.1%

Cat: G1316

Size: 100mL/500mL

Storage: 2-8℃, avoid light, valid for 1 year.

Introduction

Neutral red acts as a pH indicator, changing from red to yellow between pH 6.8 and 8.0. The molecular formula is $C_{15}H_{16}N_4 \cdot HCl$, and the molecular weight is 288.78. In neutral or slightly alkaline environment, living cells of plants can absorb a large number of neutral red and excrete into vacuoles. Neutral Red Solution can be used as a red nuclear counterstain in various histological procedures.

Protocol(for reference only)

1. Sample Treatment

For paraffin section, dewax in xylene twice for 5-10mins each. Rehydrate with series ethanol (100%, 90%, 80%, 70%) for each level 3mins, and finally in distilled water 3min.

For frozen section restore to RT and wash with distilled water for 2mins.

For cultured cell, fix with 4% PFA for more than 10mins. Then wash with distilled water twice for 2mins each.

2. Neutral Red Solution Staining

- For the above treated samples, stain with Neutral Red Solution, 0.1% for 0.5-1h.
- Rinse briefly in distilled water or distilled water.
- View under the microscope and photograph.

Note

- If dehydration, transparency and sealing treatment are needed, xylene, resinene or other sealing agent shall be prepared by oneself. If the sample is paraffin section, anhydrous ethanol and xylene shall be prepared by ourselves. The color may fade during dehydration. It is recommended to observe visually.
- When using this reagent for the first time, it is recommended to take 1-2 samples for pre-test.
- When staining with Neutral Red Solution, the time can be adjusted according to the dyeing results and requirements.
- For your safety and health, please wear experimental clothes and disposable gloves.