

中性红染色液(0.5%, 细胞或组织切片染色)

货号: G1315

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(0.5%, 细胞或组织切片染色)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
 - a. 对于石蜡切片: 二甲苯中脱蜡 2 次, 每次 10min。无水乙醇脱苯 2 次, 每次 2min。系列乙醇(95%、85%、75%)复水, 每梯度 2min。蒸馏水洗 2min。
 - b. 对于冰冻切片: 室温放置 2min 复温, 蒸馏水浸洗 2min。
 - c. 对于培养细胞: 用 4℃ 预冷的 4% 多聚甲醛固定 10-20min。1×PBS 洗涤 2 次, 每次 1min。
2. 中性红染色
 - a. 对于上述处理好的样品, 用中性红染色液(0.5%, 细胞或组织切片染色)染色 0.5-1h。
 - b. 用蒸馏水或自来水充分洗涤。
 - c. 进行观察和拍照。

注意事项:

1. 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, 需自备无水乙醇以及二甲苯, 脱水过程可能会掉色, 建议目测观察。
2. 首次使用本试剂时建议先取 1~2 个样品做预实验。
3. 中性红染色时, 可以根据染色结果和要求调整时间。
4. 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, 0.5%

Cat: G1315

Size: 100mL/500mL

Storage: 2-8°C, 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 Treating

For Paraffin Section: Dewax in xylene twice for 10 min each. Absolute ethanol twice for 2 min each. Series ethanol(95%, 85%, 75%) for 2 min each level. Distilled water for 2 min.

For Frozen Section: Restore to room temperature for 2 min. Then wash with distilled water for 2 min.

For Culture Cell: Fix in 4% PFA for 15 min. Wash with distilled water twice and 5 min each time.

2. Neutral Red Staining

For the above treated samples, use Neutral Red Solution, 0.5% to stain for 0.5-1h.

Wash thoroughly with distilled water or tap water.

Viewing and photography.

Note

1. 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.
2. When using this reagent for the first time, it is recommended to take 1-2 samples for pretest.
3. When staining with Neutral Red Solution, the time can be adjusted according to the dyeing results and requirements.
4. For your safety and health, please wear experimental clothes and disposable gloves.