

## 中性红染色液(0.1%，醇溶)

货号：G1318

规格：100mL

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<sub>15</sub>H<sub>16</sub>N<sub>4</sub>·HCl，分子量为 288.78。死细胞由于原生质变性凝固，细胞液不能维持在液泡内，用中性红染色后，不产生液泡着色现象，相反，中性红的阳离子，却与带有一定负电荷的原生质及细胞核结合，而使原生质与细胞核染色。

中性红染色液(0.1%，醇溶)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，常用于肥大细胞染色。

### 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(0.1%，醇溶)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。

### 染色结果：

细胞核，肥大细胞颗粒	红色
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### 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 70%和 90%乙醇，无水乙醇以及二甲苯。
2. 首次使用本试剂时建议先取 1~2 个样品做预实验。
3. 中性红染色液时，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 Alcoholic Solution, 0.1%

**Cat:**G1318

**Size:**100mL

**Storage:**2-8°C, avoid light, valid for 1 year.

### Introduction

Neutral red is a weak alkaline pH indicator with a discoloration range from 6.4 to 8.0 (from red to yellow). The molecular formula is  $C_{15}H_{16}N_4 \cdot HCl$  and the molecular weight is 288.78. After staining with neutral red, there is no vacuole staining in dead cell because of that the degeneration and coagulation make the cell fluid can not be maintained in vacuoles. On the contrary, the cations of neutral red can bind to the protoplasm and nucleus with a certain negative charge in living cells and stain the protoplasm and nucleus.

Neutral Red Alcoholic Solution, 0.1% is a red nuclear dye commonly used in tissue or cell staining, and is often used in mast cell staining.

### Protocol(*for reference only*)

#### 1. Sample Treating

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

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

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

#### 2. Neutral Red Staining

For the above treated samples, use Neutral Red Alcoholic Solution, 0.1% to stain for 0.5-1h.

Wash thoroughly with distilled water or tap water.

Viewing and photography.

### Result

The nucleus and granules of mast cells	Red
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### Note

1. When using this reagent for the first time, it is recommended to take 1 to 2 samples for pretest.
2. When dyeing with neutral red, the time can be adjusted according to the dyeing results and requirements.
3. For your safety and health, please wear lab clothes and disposable gloves.