

甲基绿染色液(MG,0.5%)

货号: G1651

规格: 100mL

保存: 室温, 避光保存, 有效期 6 个月。

产品介绍:

甲基绿又称双绿 SF, 属于碱性染料, 是具有金属光泽的绿色微结晶或粉末, 分子量为 608.78, 分子式为 $C_{27}H_{35}Cl_4N_3Zn$ 。甲基绿染色液 (MG,0.5%) 在组织或细胞染色中对细胞核进行染色, 常用于鉴定 DNA, 细胞核中的 DNA 遇甲基绿会被染成蓝绿色, 亦可用于免疫荧光染色或免疫组化染色。10ml 染色液可以染色 20 个样本。

自备材料:

4%多聚甲醛, 蒸馏水, 系列乙醇

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、甲基绿染色

- a) 对于上述处理好的样本, 用甲基绿染色液 (0.5%) 染色 5-10min。
- b) 用蒸馏水冲洗 2 次每次 1min, 镜下观察或按下列步骤脱水封片保存。
- c) (可选) 如需免疫荧光染色建议使用稀释荧光染料的缓冲液 (PBS 或生理盐水或 TBS 等) 缓冲 5min。
- d) (可选) 进行免疫荧光染色。
- e) 系列乙醇脱水, 每梯度 1min, 二甲苯透明两次, 每次 1min。中性树胶封片。

染色结果:

细胞核	绿色或蓝绿色
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注意事项:

- 1、首次使用本染液时建议先取 1~2 个样品做预实验。
- 2、甲基绿染色可以根据染色结果和要求调整时间。
- 3、为了您的安全和健康, 请穿实验服并戴一次性手套操作。

Methyl Green Stain Solution, 0.5%

Cat: G1651

Size: 100mL

Storage: RT, avoid light, valid for 6 months.

Introduction

Methyl green, also known as double green SF, is an alkaline dye. It is a green micro crystal or powder with metallic luster. Its molecular weight is 608.78, and its formula is $C_{27}H_{35}Cl_4N_3Zn$. Methyl Green Stain Solution, 0.5% is used to stain the nucleus in tissue or cell staining. It is often used to identify DNA. The DNA in the nucleus will be dyed blue-green when exposed to methyl green. It can also be used for immunofluorescence or immunohistochemical staining. 10mL staining solution can stain 20 samples.

Self Provided Materials

4% PFA, Distilled water, Series of ethanol.

Protocol (for reference only)

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.

Methyl green staining

1. For the above treated samples, stain with Methyl Green Stain Solution, 0.5% for 5-10mins.
2. Rinse with distilled water twice for 1 min each. Then watch under microscope or seal following the step.
3. (*optional*) if immunofluorescence staining is required, buffer solution (PBS or saline or TBS, etc.) of diluted fluorescent dye is recommended for 5min.
4. (*optional*) Immunofluorescence staining was performed as required.
5. Series of ethanol dehydration, 1 min per gradient, xylene transparent twice for 1 min each. Neutral gum seal.

Result

Nucleus	Green or Blue Green
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Note

1. When using the dye solution for the first time, it is recommended to take 1-2 samples for pre test before use.
2. Methyl green staining can adjust the time according to the staining results and requirements.
3. For your safety and health, please wear experimental clothes and disposable gloves.