

## 改良型石炭酸复红染液

货号: G1165

规格: 100mL/500mL

保存: 室温保存, 有效期 1 年。

### 产品说明:

改良型石炭酸复红染色液又称卡宝品红(Carbol fuchsin)染色液、改良苯酚品红染色液。该染色液与醋酸洋红有相似之处, 醋酸洋红是一种比较常用的碱性染料, 常用于细胞核染色、染色体的固定和染色。生物学上也常用卡宝品红(Carbol fuchsin)作观察细胞分裂时染色体形态的染色剂。染色体染色时用醋酸洋红染色液染色, 虽然染色效果较好, 但却存在着染色需时较长的问题。

改良型石炭酸复红染色液常用于植物组织的压片法和涂片法, 染液稳定。索莱宝改良型石炭酸复红染色液采用改良配方, 加入衬染剂, 使染色效果更佳。主要用于染色体染色如体细胞染色体和减数分裂染色, 是很好的细胞核、线粒体染色剂。

### 使用步骤: (仅供参考)

- 固定** 将经过预处理或没有预处理的材料, 放到卡诺氏固定液(3份乙醇: 1份冰乙酸)中固定 2-24h, 再分别在 95% 和 85%乙醇中各 30min, 再转入 70%酒精中, 可 4℃保存备用。
- 解离** 取固定好的植物组织, 用蒸馏水漂洗 2~3 次, 放入 1N HCl 溶液中 60℃水解 8-12min, 再用蒸馏水洗净。
- 染色** 将组织放在载玻片中央, 用镊子或解剖针将材料轻轻捣碎。滴加石炭酸复红染色液, 染色 8-15min 后, 盖上盖玻片。
- 压片** 在盖玻片上面铺上滤纸, 固定好盖玻片, 用拇指垂直压片, 然后用铅笔的橡皮头轻轻均匀地敲打盖片, 至肉眼见材料呈雾状即可, 使细胞核染色体分散。
- 镜检观察** 显微镜下观察染色形态和计数, 对典型分裂相细胞进行摄影记录。

### 注意事项:

- 组织 4℃保存时间最好不超过二个月。
- 为了您的安全和健康, 请穿实验服并戴手套操作。

## Modified Carbol-Fuchsin Solution

**Cat:** G1165

**Size:** 100mL/500mL

**Storage:** RT, valid for 1 year.

### Introduction

The Modified Carbol-Fuchsin Solution is also called carbol-fuchsin and phenol-fuchsin. Similar to Carmine Acetate Solution, Modified Carbol-Fuchsin Solution is a kind of basic dye, which is often used for nuclear staining, chromosome fixation and staining. In biology, Modified Carbon-Fuchsin Solution is also commonly used as a staining agent to observe the chromosome morphology during cell division. When the chromosome is stained with Carmine Acetate Solution, although the staining effect is good, there is a problem that the staining time is longer.

It is also commonly used for chromosome morphology stain. This solution is often used in the pressing and smearing methods of plant tissues. The Modified Carbol-Fuchsin Solution adopts the improved formula and adds the lining agent to make the dyeing effect better. It is mainly used for chromosome staining, such as somatic chromosome and meiosis staining. It is a good nuclear and mitochondrial staining agent.

### Protocol(*for reference only*)

1. Fix materials which pretreated or not pretreated in Carnoy's Fixative for 2-24h at room temperature. Respectively in 95% and 85% ethanol each for 30min, and stored at 4 °C before use.
2. Rinse the fixed materials 2-3 times in distilled water. Then hydrolyzed in 1 N HCl for 8-12 min at 60°C. Rinse in distilled water.
3. Place the tissue in the center of the slide and gently mash the material. Drop Modified Carbol-Fuchsin Solution and dye for 8-15 min, then cover with coverslip.
4. Put filter paper on the coverslip. Use thumb vertical to squashed the coverslip when fixed. Then knock the coverslip lightly with the eraser on a pencil until the chromosomes are scattered
5. Observe for chromosome numbers under a microscope, and photograph the typical mitotic cell.

### Note

1. The tissue should be kept at 4 °C for no more than two months.
2. For your safety and health, please wear laboratory clothes and gloves.