

苯胺-酸性品红饱和溶液

货号: G3830

规格: 50mL

保存: 室温, 避光保存, 有效期 6 个月。

产品介绍:

线粒体是细胞能量的来源, 其形态可以有较大的变化(从杆状到圆形)。线粒体体积很小, 只有借助电子显微镜才能观察到。线粒体包含遗传性母体 DNA。其数量、大小和形状根据动物细胞类型而有差异。观察线粒体的最佳方式是用电子显微镜, 组织病理学方法如 Altmann 技术是有帮助的。用组织化学方法成功显示线粒体取决于以下几个因素: 组织必须新鲜固定, 切片薄(2~3 μ m)。

苯胺-酸性品红饱和溶液是 Altmann 线粒体染色法的主要染色试剂。

操作步骤: (仅供参考)

- 1、 组织固定, 推荐使用 Champy 固定液, 但 Helly 固定液效果也较好。
- 2、 包埋, 切 2-3 μ m 薄片, 切片脱蜡至水。
- 3、 将切片浸泡于 60 $^{\circ}$ C 预热的苯胺-酸性品红饱和溶液中染色 5min, 自来水冲洗两次, 每次 1 分钟。
- 4、 用苦味酸乙醇溶液分化, 显微镜下控制分化程度。
- 5、 无水乙醇快速脱水 2 次, 每次 10 秒。
- 6、 二甲苯透明, 中性树胶封片。

染色结果:

线粒体	红色
背景	黄色

注意事项:

- 1、 应仔细分化, 使背景呈黄色。
- 2、 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

Aniline Acid Fuchsin Saturated Solution

Cat: G3830

Size: 50mL

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

Introduction

Mitochondria are the source of energy in cells, and their morphology can vary greatly (from rod-shaped to round). Mitochondria are very small and can only be observed by electron microscope. Mitochondria contain inherited maternal DNA. The number, size and shape of these cells vary according to animal cell types. Electron microscopy is the best way to observe mitochondria. Histopathological methods such as Altmann technique are helpful. The successful display of mitochondria by histochemical method depends on the following factors: the tissue must be fresh and fixed, and the slice is thin (2-3 μ m).

Aniline Acid Fuchsin Saturated Solution is the main staining reagent of Altmann method.

Protocol(for reference only)

1. Fix the tissue with Champy Fixation or Helly Fixation.
2. Embedding, cutting 2-3 μ m thin section, dewaxing to water.
3. Dye with Aniline Acid Fuchsin Saturated Solution preheated at 60 °C for 5 min, and washed twice with tap water for 1 min each time.
4. Differentiate with picric acid ethanol solution,The degree of differentiation was controlled under microscope.
5. Dehydrate anhydrous ethanol twice, 10 s each time.
6. Xylene transparent, neutral gum seal.

Result

Mitochondria	Red
Background	Yellow

Note

1. It should be differentiated carefully to make the background yellow.
2. For your safety and health, please wear experimental clothes and disposable gloves.