

Carnoy 固定液

货号: G2312

规格: 100mL

保存: 室温, 避光保存, 有效期 1 年。

产品介绍:

固定的目的在于保存细胞和组织的原有形态结构, 固定剂能阻止内源性溶酶体酶对自身组织和细胞的自溶、抑制细菌和霉菌的生长。固定剂通过凝固、生成添加化合物等使蛋白质内部结构发生改变, 从而使酶失活。固定液分为醛类固定液、汞类固定液、醇类固定液、氧化剂类固定液、苦味酸盐类固定液等, 较为常用的是醛类中的福尔马林、醇类中的乙醇。

Carnoy 固定液(Carnoy's Fluid)又称卡诺氏固定液, 适用于一般动植物组织和细胞的固定, 常用于动植物压片及石蜡切片等, 有极快的渗透力, 固定最多不超过 24h。其特点是能迅速穿透细胞, 将其固定并维持染色体结构的完整性, 还能够增强染色体的嗜碱性, 达到优良染色效果。适用于 RNA 和 DNA 染色的组织固定, 亦可用于糖原染色的组织固定, 能够使糖原呈细微颗粒状。由于该液穿透力强, 亦可固定外膜致密不宜渗透的组织。组织固定后暂时不用, 可置于 70%乙醇中保存。

操作步骤: (仅供参考)

1. 一般小块组织固定 30-40min。
2. 稍大块组织 2-4h。
3. 如果组织块大, 可适当延长固定时间, 但不宜超过 24h。

注意事项:

1. Carnoy 固定液对人体有一定的损害, 请小心操作。不宜用于固定脂类染色的组织。
2. 组织取材的厚度不同, 固定时间也不同。
3. 固定液的容量应足够, 一般固定液与组织块的体积比率应大于 10:1。
4. 温度对固定的影响很明显, 提高温度可以加速固定作用, 但温度不宜过高。
5. 取出新鲜组织后, 应及时固定, 无法及时固定时, 应保存于生理盐水中及时送检。
6. 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

Carnoy Fixative

Cat: G2312

Size: 100mL

Storage: RT, avoid light, valid for 1 year.

Introduction

The purpose of fix is to preserve the original morphological structure of cells and tissues. The fixative can prevent the autolysis of endogenous lysosomal enzymes to their own tissues and cells and inhibit the growth of bacteria and molds. The fixative makes the internal structure of the protein change by coagulating and adding compounds, which is to make the enzyme inactivated. The fixative can be divided into aldehyde fixative, mercury fixative, alcohol fixative, oxidant fixative, picric acid salt fixative, etc. Formaldehyde in aldehydes and alcohol in alcohols are more commonly used.

Carnoy Fixative is suitable for the fixation of general animal and plant tissues and cells. It is often used for animal and plant compression and paraffin sections, etc. It has extremely fast penetration and can be fixed for no more than 24 h at most. It can penetrate cells rapidly, fix them and maintain the integrity of chromosome structure. It can also enhance the basophil of chromosome and achieve excellent staining effect. It can be used for the tissue fixation of RNA and DNA staining, and also for the tissue fixation of glycogen staining, which can make glycogen present fine granules. Because of its strong penetration, it can also fix the outer membrane of the tissue which is dense and impervious. The tissue can be stored in 70% ethanol after tissue fixation.

Protocol(for reference only)

1. For small tissue block, generally fix for 30-40min.
2. For little large tissue block , generally fix for 2-4 h.
3. If the tissue block is large, the fixation time can be extended appropriately, but it should not exceed 24 h.

Note

1. Carnoy Fixative is harmful for human body. Please operate carefully in ventilated environment. It is not suitable for the fixation of tissue used for lipid staining
2. The fixing time changes due to different thickness of tissue samples.
3. The capacity of the fixative should be sufficient. Generally, the volume ratio of fixative to tissue block should be more than 10:1.
4. The effect of temperature on fixation is obvious. Increasing the temperature can accelerate the fixation, but the temperature should not be too high.
5. After fresh tissue is taken out, it should be fixed in time. If it can not be fixed in time, it should be stored in physiological saline for inspection in time.
6. For your safety and health, please wear experimental clothes and disposable gloves.