

PLP 固定液

货号: G2220

规格: 500mL

保存: 2-8°C, 避光保存, 有效期 6 个月。

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。固定剂对细胞核细胞外成分发生物理改变。未固定前活细胞被包裹在不能穿透的膜内, 固定剂能够破坏这一屏障, 使大分子物质穿透膜、逸出。选择固定液对组织染色和免疫组化染色都极其重要, 通常将几种固定剂混合配制成复合固定液, 这样可以适应多种组织、细胞成分的保存, 然而目前还没有一种标准的固定液适用于所有的组织、细胞成分的保存。固定液主要分为醛类固定液、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。

PLP 固定液多用于含糖类组织的固定, 尤其适用于免疫电镜中保护抗原性和超微结构。

操作步骤: (仅供参考)

- 1、按实验具体要求操作。
- 2、一般需固定 6-18h。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、PLP 固定液对人体有一定的损害, 请在通风好的环境下小心操作, 避免吸入。
- 2、长期(间隔 1 个月以上)不用建议放置阴凉避光处保存。
- 3、组织取材的厚度不同, 固定时间也不同, 对组织恰当的选材有利于固定液的渗透。
- 4、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。
- 5、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。
- 6、为了您的安全和健康, 请穿实验服并戴一次性手套操作。





PLP Fixative

Cat: G2220

Size: 500mL

Storage: 2-8°C, avoid light, valid for 6 months.

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, so that the enzyme is inactivated. The fixative changed the extracellular components of nucleus. Before fixing, the living cells are wrapped in the impermeable membrane. The fixative can destroy this barrier and make the macromolecular materials penetrate and escape from the membrane. It is very important to select the fixative for tissue and immunohistochemical staining. Usually, several fixatives are mixed to prepare composite fixative, which can adapt to the preservation of various tissues and cell components. However, there is no standard fixative suitable for the preservation of all tissues and cell components. 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.

PLP Fixative is mainly used for the fixing tissues containing sugar, especially for protecting antigenicity and ultrastructure in immune electron microscope.

Protocol(for reference only)

1. Operate according to the specific requirements of the experiment.
2. Generally fix for 6-18 h. If the tissue block is large, the fixing time can be extended appropriately, but it should not over 24 h.

Note

1. PLP Fixative is harmful for human body, please operate carefully in ventilated environment.
2. If it is not used for a long time (interval of more than 1 month). It is recommended to store it in a cool and dark place.
3. The fixing time changes due to different thickness of tissue samples.
4. The capacity of the fixative should be sufficient. Generally, the volume ratio of fixative to tissue block should be more than 10:1.
5. The effect of temperature on fixation is obvious. Increasing the temperature can accelerate the fixation, but the temperature should not be too high.
6. For your safety and health, please wear experimental clothes and disposable gloves.

