

## Gluta 固定液 (电镜专用,4%)

货号: P1127

规格: 100mL

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, 较为常用的是醛基和醇基固定液。

Gluta 固定液 (电镜专用,4%) 能固定更多的结构和化学成分, 因此被固定的成分在制样过程中就不易流失, 一直会保留在原位, 适用于电镜观察样本固定。在光镜下观察各结构着色普遍偏深, 且难以将颜色褪去, 辨识度反而低于常规固定液。而且由于固定效果稳定, 固定后组织致密, 抗原掩蔽性高于常规固定液, 用于常规染色需适当调整染色步骤。

### 操作步骤: (仅供参考)

- 1、 根据实验具体要求操作。
- 2、 取新鲜标本, 使用生理盐水稍洗后入 Gluta 固定液 (电镜专用,4%)2-8°C固定 1~24h, 稍大标本应适当延长固定时间。
- 3、 送检或 2-8°C保存。

### 注意事项:

- 1、 Gluta 固定液有一定腐蚀性, 请在通风较好的环境下小心操作, 避免吸入和皮肤接触。
- 2、 组织取材的厚度不同, 固定时间也不同。建议取材 2~4mm 固定至少 4 小时, 一般不建议单样本超过 6mm。对组织恰当的选材有利于固定液的渗透。
- 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。如果容积不够大, 可以在固定期间更换 1~3 次固定液。
- 4、 温度对固定的影响很明显, 提高温度可以加速固定作用, 但本固定液最好不要提高温度。
- 5、 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

### 相关文献:

- [1] Xianghua Liu,Ning Sun,Nan Mo,et al. Quercetin inhibits kidney fibrosis and the epithelial to mesenchymal transition of the renal tubular system involving suppression of the Sonic Hedgehog signaling pathway. Food & Function. May 2019. (IF 3.289)
- [2] Houqi Ning,Yingqiu Li,Qiwen Tian,et al. The apoptosis of Staphylococcus aureus induced by glycinin basic peptide through ROS oxidative stress response. Food Science and Technology. January 2019;62-68. (IF 3.129)
- [3] Yong Zhang,Qian Sun,Ziwen Li,et al. Fermented soybean powder containing Bacillus subtilis SJLH001 protects against obesity in mice by improving transport function and inhibiting angiogenesis. Journal of Functional Foods. August 2019; 59:60-70. (IF 3.197)

注: 更多使用本产品的文献请参考索莱宝官网。

## Glutaraldehyde,4%(EM Grade)

**Cat:** P1127

**Size:** 100mL

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

### Production

The purpose of immobilization is to preserve the original morphological structure of cells and tissues. Immobilizers can prevent endogenous lysosomal enzymes from autolysis of their own tissues and cells, and inhibit the growth of bacteria and molds. Fixed liquids are mainly divided into aldehyde based fixed liquids, mercury based fixed liquids, alcohol based fixed liquids, oxidant based fixed liquids, picrate based fixed liquids, etc. The more commonly used are aldehyde based and alcohol based fixed liquids.

Glutaraldehyde,4%(EM Grade) can fix more structures and chemical components, so the fixed components are not easily lost during the sample preparation process and will remain in place, making it suitable for electron microscopy observation and sample fixation. When observed under a light microscope, the coloring of each structure is generally darker and difficult to fade, resulting in lower recognition compared to conventional fixative solutions. Moreover, due to the stable fixation effect, dense tissue after fixation, and higher antigen masking ability than conventional fixation solution, appropriate adjustment of staining steps is required for routine staining.

### Protocols (only for reference)

1. Operate according to the specific requirements of the experiment.
2. Take fresh specimens, wash them slightly with physiological saline, and then add Glutaraldehyde,4%(EM Grade) at 2-8 °C for 1-24 hours. For larger specimens, the fixation time should be appropriately extended.
3. Send for inspection or store at 2-8 °C.

### Note

1. Gluta fixative has certain corrosiveness. Please handle it carefully in a well ventilated environment to avoid inhalation and skin contact.
2. The thickness of tissue sampling varies, and the fixation time also varies. It is recommended to take 2-4mm samples and fix them for at least 4 hours. Generally, it is not recommended to use a single sample exceeding 6mm. Proper material selection for the organization is beneficial for the penetration of the fixative.
3. The capacity of the fixed solution should be sufficient, and the volume ratio of the fixed solution to the tissue block should generally be greater than 10:1. If the volume is not large enough, the fixing solution can be replaced 1-3 times during the fixation period.
4. The temperature has a significant impact on fixation, and increasing the temperature can accelerate the fixation effect. However, it is best not to increase the temperature for this fixation solution.
5. For your safety and health, please wear laboratory clothes and disposable gloves for operation.