

硫酸钠水溶液(5%)

货号: G3420

规格: 500mL

保存: 室温保存, 有效期 1 年。

产品介绍:

在组织切片过程中, 一些组织内含有骨质或钙化灶时, 含钙的组织不宜直接用石蜡包埋切片。这是因为钙和石蜡之间的密度不同, 较难切出完整的切片。对含钙组织最好固定之后, 再进行脱钙或二者同时进行。在脱钙过程中, 酸类物质打破了组织中蛋白质分子间的横链, 并释放可以同水分子结合的亲水基团, 引起组织膨胀。组织脱钙后, 要立即将组织中的酸中和掉, 使组织迅速脱酸和中性化以保证切片质量和染色效果。

硫酸钠水溶液(5%)是较常用的骨组织脱钙后处理液, 通常建议过夜处理。

操作步骤: (仅供参考)

1. 骨组织脱钙时, 取材不宜过厚, 通常建议不超过 5mm。
2. 组织酸性脱钙液脱钙后用蒸馏水浸洗三次, 每次 1min。
3. 组织转移至硫酸钠水溶液(5%)中, 处理 24h。
4. 用蒸馏水浸洗 2 次, 每次 1h, 转移至 70%乙醇脱水包埋。

注意事项:

1. 适当加温能加快处理速度, 但高温也会破坏组织结构, 建议控制在 40°C 以下。
2. 长时间水洗可能会引起组织膨胀, 建议在 6h 内转移到 70%乙醇中保存或进行脱水包埋。

Sodium Sulfate Aqueous Solution, 5%

Cat: G3420

Size: 500mL

Storage: RT, valid at least for 1 year.

Introduction

In the process of tissue sectioning, when some tissues contain bone or calcification, it is not suitable to directly use paraffin embedded sections for calcium containing tissues. This is because the density of calcium and paraffin is different, so it is difficult to cut a complete section. It is better to fix the calcified tissue before decalcification or both. In the process of decalcification, acids break the cross chain of protein molecules and release hydrophilic groups which can combine with water molecules, causing tissue expansion. After decalcification, the acid in the tissue should be neutralized immediately to make the tissue deacidification and neutralization quickly, so as to ensure the quality of the section and the staining effect.

Sodium Sulfate Aqueous Solution, 5% is a commonly used post-treatment solution for bone tissue decalcification, which is usually recommended to be treated overnight.

Protocol(*for reference only*)

1. When decalcifying the bone tissue, the thickness of the material should not be too thick, usually no more than 5mm.
2. After decalcification with acidic decalcification solution, the tissue was soaked in distilled water for three times, 1 min each time.
3. The tissue was transferred to Sodium Sulfate Solution, 5%, Water Solvent for 24 h.
4. Wash twice with distilled water, 1h each time, transfer to 70% ethanol for dehydration and embedding.

Note

1. Proper heating can speed up the treatment, but high temperature will also damage the microstructure, so it is recommended to control the temperature below 40 °C.
2. Long time washing may cause tissue swelling, so it is recommended to transfer it to 70% ethanol for preservation or dehydration embedding within 6h.