

JYBL-IV脱钙液

货号：G2473

规格：500mL

保存：室温，避光保存，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。然后进行下游操作如脱水、透明、浸蜡、包埋、切片。用于脱钙的试剂很多，脱钙剂包括有机酸、无机酸、乙二胺四乙酸(EDTA)以及电解法脱钙。

JYBL-IV脱钙液主要由甲醛、甲酸等组成，不含强酸，特别适用于骨组织快速脱钙。其优点是：①可以升温到37℃快速脱钙，常规大小的骨片2~3h即可；②对组织的结构损害小；③脱钙完全。

操作步骤：（仅供参考）

- 1、骨组织脱钙时，取材不易过厚，一般大约5mm。
- 2、组织固定后，用PBS清洗3次。
- 3、组织用蒸馏水洗清洗3次。
- 4、组织转移至20~30倍体积的JYBL-IV脱钙液中。根据组织密度和厚度决定脱钙时间，可适当加温。可用物理法进行脱钙终点检测。
- 5、用蒸馏水冲洗数次。6、常规脱水、包埋。

注意事项：

- 1、厚度5mm的骨组织块脱钙时间一般脱钙24~36h即可。
- 2、脱钙应彻底，防止脱钙不足或过度。脱钙程度应控制在不影响组织切片的同时尽量缩短脱钙时间，以免脱钙过长引起组织损害。
- 3、脱钙用具避免使用金属容器，尽量使用玻璃容器。
- 4、骨组织脱钙应先固定后脱钙或脱钙固定同时进行，不应先脱钙后固定，以便减少组织的损伤程度。
- 5、每隔一段时间检测一次脱钙程度，脱钙过度会增加组织的损伤程度，影响染色结果。
- 6、为了您的安全和健康，请穿实验服并戴一次性手套操作。

附录：

脱钙终点的测定(物理法)：采用针刺、手掐、钳夹等方法，当骨组织变软或针刺时没有阻力感即可终止脱钙。物理检测法会对组织结构有一定的损害，尽量避免用力过大或反复检测。





JYBL-IV Decalcifying Solution

Cat:G2473

Size:500mL

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

Introduction

In the process of tissue sectioning, when some tissues contain bone or calcification, the tissue containing calcium should not be directly embedded in paraffin. This is because the density between calcium and paraffin is different, it is difficult to cut a complete section. It is better to fix the calcium containing tissue before decalcification or both operate at the same time. Then continue next operations such as dehydration, transparency, wax immersion, embedding and slicing. There are many decalcification reagents, including organic acid, inorganic acid, EDTA and electrolytic decalcification.

The advantage of JYBL-IV Decalcifying Solution is that the high concentration of formic acid has a strong ability to decalcify bone, and the damage of formic acid to soft tissue is much smaller than that of other acid decalcifying agents (hydrochloric acid, nitric acid). At the same time, the join of formaldehyde makes the tissue fixed, thus further reducing the damage of decalcification solution to the tissue.

Self Provided Materials

PBS, Distilled water, Heating device, Microwave Oven

Protocol(for reference only)

1. When decalcifying the bone tissue, the section is not suitable to be too thick, generally about 5mm.
2. After fixing the tissue, wash it with PBS for three times for 20 min each time.
3. Wash the tissue with distilled water three times for 20 min each time.
4. Transfer the tissue to JYBL-IV Decalcifying Solution of 20-30 times volume and decalcify for 24-36 h. If you want to speed up the decalcification, you can put it at 37 °C.
5. Rinse several times with distilled water. Conventional dehydration and embedding.

Note

1. The decalcification time of 5 mm thick bone tissue block is generally 24 -36 h.
2. Decalcification should be completely to prevent insufficient or excessive decalcification. The degree of decalcification should be controlled to shorten the decalcification time as much as possible without affecting the tissue section, so as to avoid tissue damage caused by too long decalcification.
3. Avoid using metal containers for decalcification appliances, and try to use glass containers.
4. Decalcification of bone tissue should be operated after fixation or fixed at the same time. Decalcification should not be carried out before fixation in order to reduce the degree of tissue damage.
5. Detect the degree of decalcification every span. For your safety and health, please wear experimental clothes and disposable gloves.

Appendix

Determination of the end point of decalcification (physical method): acupuncture, hand pinching, clamp and other methods are used to stop decalcification when the bone tissue becomes soft or there is no sense of resistance during acupuncture. Physical detection will damage the tissue structure to some extent, and try to avoid excessive force or repeated detection

