

EDTA 脱钙液(10%)

产品简介:

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,EDTA 是一种相对较好的螯合脱钙剂,对组织结构影响最小,可以较好的保存组织的某些酶类,经 EDTA 脱钙后的组织可以进行免疫组化和原位杂交染色,但是该法脱钙速度太慢,一般脱需要数周至数月。

Leagene EDTA 脱钙液(10%)主要由 EDTA 二钠盐、磷酸盐等组成, pH 值为 7.2; 其优点是: ①经 EDTA 脱钙的组织染色结果好; ②对组织的结构损害小; ③适用于免疫组化和原位杂交染色; 其缺点是: ①脱钙速度很慢, 不适合常规标本脱钙使用; ②脱钙后组织会稍微变硬; ③不宜用化学方法确定脱钙终点。该试剂仅用于科研领域, 不适用于临床诊断或其他用途。

产品组成:

名称 \ 编号	DD0002	DD0002	Storage
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EDTA 脱钙液(10%)	500ml	5L	RT
使用说明书	1 份		

自备材料:

- 1、PBS、蒸馏水
- 2、加热装置或微波炉、脱钙专用容器(玻璃)

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,每次 20min。
- 3、组织用蒸馏水洗清洗 3 次,每次 20min。
- 4、组织转移至 20~30 倍体积的 EDTA 脱钙液中,脱钙 10~30 天或更长时间。如果想加快脱钙速度,可以置于 37℃进行脱钙;如果必要,更换新的 EDTA 脱钙液继续脱钙,多数组织脱钙 2 周~3 个月即可,每周更换一次直至终点;亦可采用微波快速脱钙法:微波炉设在 200W 左右的档位,每次加热 5min,依据组织厚度和密度重复 3~5min,

中间间隔 3 ~ 5min。

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 10~30 天即可，大多数在 14 ~ 60 天即可。
- 2、适当加温能加快脱钙的速度，一般不应超过 37 ~ 40℃，温度过高容易使骨组织造成松散解体，尤其不可大于 60℃。
- 3、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。
- 4、脱钙用具避免使用金属容器，尽量使用玻璃容器。
- 5、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。
- 6、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。
- 7、为了您的安全和健康，请穿实验服并戴一次性手套操作。

有效期: 12 个月有效。

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。

相关产品:

产品编号	产品名称
DB0082	改良番红 O-固绿软骨染色液
DD0008	Plank-Rychlo 脱钙液
DF0111	组织固定液(10% NBF)
DG0005	糖原 PAS 染色液
DH0006	苏木素伊红(HE)染色液(醇溶)
IH0091	多聚赖氨酸溶液(10×PLL,1mg/ml)
TC0699	植物总糖和还原糖检测试剂盒(DNS 比色法)

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