

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、浸蜡等。用于的脱钙试剂很多,包括有机酸、无机酸、乙二胺四乙酸(EDTA)以及电解法脱钙。

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
EDTA 脱钙液(10%)	500ml	5L	RT
使用说明书	1 份		

自备材料:

- 1、中性甲醛固定液或多聚甲醛固定液、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、经中性甲醛固定后,用 PBS 清洗 3 次,每次 20min。
- 3、用蒸馏水清洗 3 次,每次 20min。
- 4、转移至 20~30 倍体积的脱钙液中,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 5min,依据组织厚度和密度重复 3~5 次,中间间隔 3~5min。
- 5、用蒸馏水冲洗数次。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：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
DA0098	迪夫快速染色液(Diff-Quik Stain)
DA0800	抗荧光淬灭封片液(含 DAPI)
DA1203	精子核蛋白染色液(伊红-苯胺蓝法)
DB0057	软骨染色液(甲苯胺蓝法)
DB0082	改良番红 O-固绿软骨染色液
DC0032	Masson 三色染色液
DC0041	天狼星红染色液
DC0066	改良 Weigert 弹力纤维染色液
DC0080	Russell 改良 Movat 五色套染染色液
DD0002	EDTA 脱钙液(10%)
DD0008	Plank-Rychlo 脱钙液
DD0210	快速脱钙液(组织病理专用)
DF0135	组织细胞固定液(4% PFA)
DF0220	眼球固定液
DF0420	致畸试验固定液(骨骼检查)
DG0005	糖原 PAS 染色液
DG0041	阿利新蓝染色液(pH2.5)
DG0075	纤维素染色液(改良 MSB 法)
DG0100	改良 Hale 胶体铁黏多糖染色液
DH0110	苏木素-伊红(HE)高清恒定染色试剂盒(高清恒染)
DJ0010	普鲁士蓝染色液(DAB 增强法)
DK0009	Luxol Fast Blue 髓鞘染色液
DL0011	改良油红 O 染色液
DM0016	增强革兰氏染色液
DM0310	卡尔科弗卢尔荧光增白剂
DP0045	植物超氧阴离子染色液(NBT,pH7.4)
DP0412	木质素染色液(间苯三酚法)
DP0521	植物胼胝质染色液(苯胺蓝荧光染色法)
DP1218	植物组织透明液(快速)
DS0001	钙盐染色液(茜素红 S 法)
DZ2000	OCT 冰冻切片包埋剂
DZ2012	环保浸蜡脱蜡透明液(快速)
DZ2024	油镜油/浸镜油
IH0270	甘油明胶封固液
IH0305	柠檬酸钠抗原修复液 (50×)

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