



碧云天生物技术/Beyotime Biotechnology
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哺乳动物基因组DNA抽提试剂盒

产品编号	产品名称	包装
D0061	哺乳动物基因组DNA抽提试剂盒	50次

产品简介:

- 碧云天生产的哺乳动物基因组DNA抽提试剂盒(Mammalian genomic DNA extraction kit), 采用了经典的蛋白酶K处理法, 可以抽提到100-150kb以上的基因组DNA。
- 用本试剂盒抽提到的基因组DNA适用于Southern杂交、基因组DNA的PCR扩增及基因组DNA文库的构建等。
- 通常使用本试剂盒, 从20毫克组织可以抽提到约40微克基因组DNA, 从106-107Hela细胞可以抽提到约5-50微克基因组DNA。
- 本试剂盒足够抽提50个常规量的样品。

包装清单:

产品编号	产品名称	包装
D0061-1	样品裂解液	30ml
D0061-2	蛋白酶K	130 μ l
D0061-3	10M 醋酸铵	6ml
D0061-4	Nuclease Free Water	6ml
—	说明书	1份

保存条件:

-20°C保存, 一年有效。10M 醋酸铵和Nuclease Free Water也可以室温保存。

注意事项:

- 需自备Tris平衡苯酚、氯仿和无水乙醇。
- 如果打算抽提到大片段的基因组DNA, 则要尽量避免基因组DNA的物理性剪切。例如避免剧烈振荡含有基因组DNA的样品, 可以用剪掉枪头尖的枪头吸取含有基因组DNA的样品。
- 不可过分干燥基因组DNA沉淀, 否则会极难溶解。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

使用说明:

1. 样品收集

- 对于组织样品:
切下组织, 并剪切成小块, 置液氮中冻结, 研碎或捣碎。
- 对于贴壁细胞:
胰酶消化后, PBS或生理盐水洗一次, 1000-2000g离心1-2分钟, 弃上清, 收集细胞。
- 对于悬浮细胞:
1000-2000g离心1-2分钟, 弃上清, 收集细胞。

2. 基因组DNA抽提

- 样品处理完毕后, 每1毫升样品裂解液中加入5微升蛋白酶K, 混匀。
- 对于上述处理好的样品, 每20毫克组织或106-107个细胞中加入500微升添加了蛋白酶K的样品裂解液, 颠倒混匀数次, 充分裂解组织或细胞。
- 50°C水浴消化过夜。
- 加入500微升Tris平衡苯酚抽提样品。
- 吸出酚相及中间相(可以吸除少量靠近中间相的水相液体), 剩余的水相用等体积Tris平衡酚再抽提一次。
- 吸出酚相及中间相(可以吸除少量靠近中间相的水相液体), 剩余的水相用等体积氯仿再抽提一次。
- 吸出约300微升上清液, 加入60微升10M醋酸铵和600微升无水乙醇, 颠倒数次混匀, 此时可见DNA沉淀产生。
- 10, 000g 离心1分钟, 弃上清。加入70%乙醇洗涤DNA沉淀两次。
- 尽量吸除残余的乙醇, 待看不到明显的液体时, 立即加入50-100微升Nuclease Free Water溶解DNA。注意: 不可过分干燥基因组DNA沉淀, 否则会极难溶解。如果发现DNA沉淀难以溶解, 可以在4°C用摇床缓慢摇动过夜, 以溶解DNA沉淀。

使用本产品的文献：

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