

## Hoechst 33342活细胞染色液(100X)

产品编号	产品名称	包装
C1029	Hoechst 33342活细胞染色液(100X)	3ml

### 产品简介:

- Hoechst 33342活细胞染色液(100X) (Hoechst 33342 Staining Solution for Live Cells, 100X), 是一种适用于活细胞细胞核染色的溶液。仅需染色10分钟就能用荧光显微镜观察到非常明亮的细胞核蓝色荧光染色。
- 本产品也适用于固定后的细胞或组织的细胞核染色。
- Hoechst 33342, 也称bisBenzimide H 33342或HOE 33342。分子式为 $C_{27}H_{28}N_6O \cdot 3HCl \cdot 3H_2O$ , 分子量为615.99, CAS Number 23491-52-3。Hoechst 33342的最大激发波长为346nm, 最大发射波长为460nm; Hoechst 33342和双链DNA结合后, 最大激发波长为350nm, 最大发射波长为461nm。
- Hoechst 33342是一种可以穿透细胞膜的蓝色荧光染料, 对细胞的毒性较低。
- Hoechst 33342染色常用于细胞凋亡检测, 染色后用荧光显微镜观察或流式细胞仪检测。Hoechst 33342也常用于普通的细胞核染色, 或常规的DNA染色。
- 本产品用于活细胞染色的效果图参考图1。

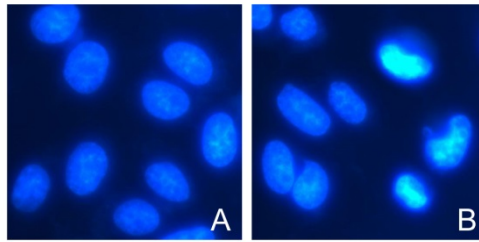


图1. 正常培养的HeLa细胞用本产品染色后的实拍效果图。图A为正常细胞Hoechst 33342的染色效果图。图B中除了正常细胞外, 还清晰可见呈现致密浓染的凋亡细胞。

### 包装清单:

产品编号	产品名称	包装
C1029	Hoechst 33342活细胞染色液(100X)	3ml
—	说明书	1份

### 保存条件:

-20°C避光保存, 一年有效。

### 注意事项:

- 本产品浓度经过碧云天的优化, 确保可以满足活细胞染色及各种常规染色的需要。如需使用特定浓度的 Hoechst 33342, 请选购碧云天的粉末装 Hoechst 33342 (C1022)。
- 荧光染料都存在淬灭的问题, 建议染色后尽量当天完成检测。
- 为减缓荧光淬灭可以使用抗荧光淬灭封片液。抗荧光淬灭封片液(P0126)可以向碧云天订购。
- Hoechst 33342对人体有害, 操作时请小心, 并注意有效防护以避免直接接触人体或吸入体内。
- 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. 对于活细胞或培养的组织:

- 对于培养器皿内的活细胞或组织, 在培养液中均匀滴加适量的Hoechst 33342活细胞染色液(100X)至终浓度为1X, 轻柔混匀。例如对于十二孔板中培养的细胞, 每孔有1ml的培养液, 每孔需要加入10 $\mu$ l Hoechst 33342活细胞染色液(100X)。培养液中的血清、酚红等都不会对染色产生干扰。
- 在适宜于细胞培养的温度孵育10分钟。吸除含染料的培养液, 用培养液或PBS洗涤2-3次即可在荧光显微镜下观察。细胞发生凋亡时, 会看到凋亡细胞的细胞核呈致密浓染, 或呈碎块状致密浓染。具体示例见图1。如果对于染色效果的要求不是特别高,

染色5分钟，用培养液或PBS洗涤1次即可在荧光显微镜下观察。为避免凋亡细胞随培养液或PBS被吸除，在吸除液体前，对于用多孔板中培养的细胞，最好用多孔板离心机离心一下以充分沉淀那些已经漂浮起来的凋亡细胞。

## 2. 对于固定的细胞或组织：

- 对于细胞或组织样品，固定后，适当洗涤去除固定剂。随后如果需要进行免疫荧光染色，则先进行免疫荧光染色，染色完毕后按后续步骤进行Hoechst 33342染色。如果不需要进行其它染色，则直接进行后续的Hoechst 33342染色。
- 对于贴壁细胞或组织切片，加入少量用免疫染色洗涤液、PBS或生理盐水稀释至1X的本产品，覆盖住样品即可。对于悬浮细胞，至少加入待染色样品体积3倍的染色液，混匀。室温放置3-5分钟。
- 吸除Hoechst 33342染色液，用免疫染色洗涤液、PBS或生理盐水洗涤2-3次，每次3-5分钟。
- 直接在荧光显微镜下观察或封片后荧光显微镜下观察。细胞发生凋亡时，会看到凋亡细胞的细胞核呈致密浓染，或呈碎块状致密浓染。

## 相关产品：

产品编号	产品名称	包装
C1002	DAPI	5mg/ml×0.2ml
C1005	DAPI 染色液	10ml
C1006	DAPI 染色液	50ml
C1011	Hoechst 33258	10mg
C1017	Hoechst 33258 染色液	10ml
C1018	Hoechst 33258 染色液	50ml
C1022	Hoechst 33342	10mg
C1025	Hoechst 33342 染色液	10ml
C1026	Hoechst 33342 染色液	50ml
C1027	Hoechst 33342 活细胞染色液(100X)	0.1ml
C1028	Hoechst 33342 活细胞染色液(100X)	0.5ml
C1029	Hoechst 33342 活细胞染色液(100X)	3ml

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