

吕氏碱性美蓝染色液(0.4%)

货号: G1185

规格: 100mL/500mL

保存:室温,避光保存,有效期1年。

产品介绍:

吕氏碱性美蓝染色液(0.4%)常用于对酵母菌的活细胞染色,由于活细胞的新陈代谢作用,细胞内具有较强的还原能力,能使美蓝由蓝色的氧化型变为无色的还原型。因此,具有还原能力的酵母菌活细胞是无色的,而死细胞或代谢作用微弱的衰老细胞则呈蓝色或淡蓝色。

操作步骤: (仅供参考)

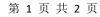
- 1. 滴一小滴吕氏碱性美蓝染色液于载玻片中央,按无菌操作取少量酵母菌与其混合均匀。
- 2. 用镊子取一块盖玻片,将盖玻片一边与菌体接触,缓缓将盖玻片倾斜并覆盖在菌液上。
- 3. 放置约5min 后, 先用低倍镜后用高倍镜(不用油镜)观察酵母的形态和出芽情况, 并用颜色区别死活细胞。
- 4. 染色30min后再次观察,注意死细胞是否增加。

实验结果:

酵母菌活细胞	无色	SOIEM
酵母菌死细胞	蓝色或淡蓝色	E

注意事项:

- 1. 用接种环将菌体与染液混合时不要剧烈涂抹,以免破坏细胞。
- 2. 滴加染液要适中,否则用盖玻片覆盖时,染液过多会溢出,过少会产生大量气泡。
- 3. 盖玻片要缓慢倾斜覆盖,以免产生气泡。

















Loeffler's Methylene Blue Stain Solution, 0.4%

Cat: G1185

Size: 100mL/500mL

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

Introduction

Loeffler's Methylene Blue Stain Solution, 0.4% is generally used as a way to obtain a quick estimate of the percentage of viable cells in a yeast sample. Viable yeast cells contain an enzyme that decolorizes methylene blue, whereas dead cells do not. As a result, when yeast cells are suspended in a solution containing the dye, it stains the dead cells blue, but the live cells remain unstained.

Protocol(*for reference only*)

- Drop a little Loeffler's Methylene Blue Stain Solution, 0.4% onto glass slide and take a drop of yeast culture. Then mix.
- 2. Place a coverslip over it.
- 5mins later, observe under low power of the microsope for budding in yeast and distinguishing dead cells 3. from living ones by color.
- 4. Observe again after staining for 30 min. Note whether the number of dead cells increase or not.

Result

Living cells of yeast	Colorless
Dead cells of yeast	Blue

Note

- Don't smear it violently when mixing the bacteria with the dye solution with the inoculation ring to avoid damaging the cells.
- 2. The amount of dye should be moderate, otherwise when the cover glass is used to cover, too much dye will overflow and too little will produce a lot of bubbles.
- 3. The cover glass should be covered slowly to avoid bubbles.







