

Trypan Blue, 0.4% (w/v)

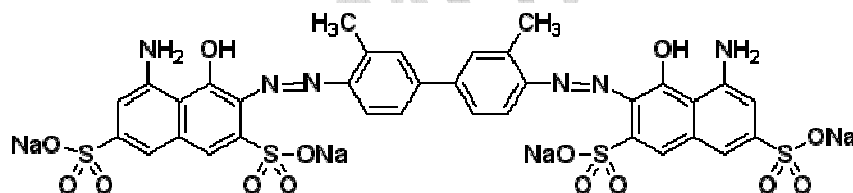
Cell Staining

产品编号: CD001

中文名称: 台盼蓝溶液

产品简介: Trypan Blue is the stain most commonly used to distinguish viable from nonviable cells. The reactivity of trypan blue is based on the fact that the chromophore is negatively charged and does not interact with the cell unless the membrane is damaged. Therefore, all the cells which exclude the dye are viable, while nonviable cells absorb the dye and appear blue. Cells should be in suspension as single cells in buffered saline before counting.

Trypan Blue has a higher affinity for serum protein than for cellular proteins, so suspending cells in medium containing serum will generate a dark background.



分子式: C₃₄H₂₄N₆Na₄O₁₄S₄

分子量: 960.81

CAS 编号: 72-57-1

产品类型: Prepared in 0.81% sodium chloride and 0.06% potassium phosphate, dibasic. Sterile-filtered, cell culture tested

纯度: Dye content in powder, ≥60%

浓度: 0.4% (w/v) solution

包装规格: 100 ml

储存温度: Room temperature

染色流程:

- ◇ Place 0.5 ml of a suitable cell suspension (dilute cells in complete medium without serum or 1x PBS to an approximate concentration of 1×10^5 to 2×10^5 cells per ml) in a screw cap test tube.
- ◇ Add 0.1 ml of 0.4% Trypan Blue Stain. Mix thoroughly and allow to stand 5 minutes at room temperature.
- ◇ Fill a hemocytometer as for cell counting.
- ◇ Under a microscope, observe if non-viable are stained and viable cells excluded the stain.
- ◇ Count the average number of unstained cells in each quadrant, and multiply by 2×10^4 to determine the number of cells per ml. The percentage of viable cells is the number of viable cells divided by the number of dead and viable cells.

参考文献: Freshney, R. (1987) Culture of Animal Cells: A Manual of Basic Technique, p. 117, Alan R. Liss, Inc., New York.

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