

## 肥大细胞染色液(甲苯胺蓝法)

货号: G3670

规格: 100mL

保存: 室温, 避光保存, 有效期 1 年。

### 产品介绍:

甲苯胺蓝(Toluidine Blue O)中的阳离子有染色作用, 组织细胞的酸性物质与其中的阳离子相结合而被染色。甲苯胺蓝还含有两个助色团, 能促使染料产生电离成盐类, 帮助发色团对组织产生染色力, 使切片上的组织细胞着色, 可染细胞核使之呈蓝色。临床上, 经常用甲苯胺蓝对软骨细胞和肥大细胞进行染色。

### 操作步骤: (仅供参考)

- 1、石蜡切片入二甲苯2次, 每次10min。
- 2、系列乙醇各3min。自来水洗2min。
- 3、入肥大细胞染色液(甲苯胺蓝法)浸染10~15min。
- 4、自来水洗2min, 滤纸吸干水分。
- 5、95%乙醇分色至肥大细胞呈紫蓝色, 背景呈淡蓝色。
- 6、95%乙醇1min。无水乙醇2次, 每次2min。二甲苯透明, 中性树胶封固。

### 染色结果:

肥大细胞颗粒	紫蓝色
背景	淡蓝色

### 注意事项:

- 1、针对于胃粘膜组织、软骨组织等较难着色组织的染色, 浸染于甲苯胺蓝染色液的时间应相应延长。
- 2、固定液最好采用Carnoy固定液。
- 3、甲苯胺蓝染色后不宜采用低浓度乙醇脱水, 否则容易导致褪色。
- 4、分色后应快速入95%乙醇、无水乙醇、二甲苯的时间不宜过久, 否则容易导致褪色。
- 5、为了您的安全和健康, 请穿实验服并戴一次性手套操作。

### 相关产品:

- G3660 甲苯胺蓝染色液(细胞专用)
- G3661 甲苯胺蓝染色液(1%, 磷酸盐法)
- G3662 甲苯胺蓝染色液(0.5%, 磷酸盐法)
- G3663 甲苯胺蓝染色液(1%, 硼酸盐法)
- G3665 甲苯胺蓝染色液(0.5%, 硼酸盐法)
- G3668 甲苯胺蓝染色液

## Mast Cells Stain Solution(Toluidine Blue Method)

**Cat:** G3670

**Size:**100mL

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

### Introduction

Mast cells are common cells in loose connective tissue. They are often distributed in groups along small blood vessels and lymphatics. They are also common around interlobular ducts of bronchi and pancreas. Generally, mast cells are large, with a diameter of about 20-30 $\mu$ m, round or oval. Their nucleus are small, and their cytoplasm is filled with thick and heterochromatic eosinophils.

The cations in toluidine blue o have a staining effect, and the acidic substances in tissue cells are combined with the cations in them and stained. Toluidine blue also contains two chromophores, which can make the dye ionize into salts, help the chromophore produce dyeing power on the tissue, and make the tissue cells on the slice colored. In clinic, toluidine blue is often used to stain chondrocytes and mast cells.

### Protocol(for reference only)

1. Add xylene into paraffin section twice, 10min each time.
2. 3 min for each series of ethanol. Wash with tap water for 2 min.
3. Dye with Mast Cells Stain Solution(Toluidine blue Method) for 10-15mins.
4. Wash with tap water for 2 min, and drain with filter paper.
5. Differentiate with 95% ethanol till the mast cell is purple-Blue and the others are light blue.
6. Dehydration by 95% ethanol once for 1min and absolute ethanol 2 times for 2mins each time.
7. Transparent with xylene and seal with resinene.

### Result

Mast Cell Granuels	Purple-Blue
Background	Light Blue

### Note

1. The staining time of Mast Cells Stain Solution(Toluidine blue Method) should be prolonged for the staining of hard colored tissues like gastric mucosa and cartilage.
2. Carnoy is the best fixative for this method.
3. After toluidine blue dyeing, it is not suitable to use low concentration ethanol to dehydrate, otherwise it is easy to cause fading.
4. After color separation, 95% ethanol, anhydrous ethanol and xylene should be added quickly. Time should not be too long, or it will easily lead to fading.
5. For your safety and health, please wear experimental clothes and disposable gloves.

### Related Products

- G3660 Toluidine blue staining Solution,For Cell  
 G3661 Toluidine Blue O solution,1% in PBS  
 G3662 Toluidine Blue O Solution,0.5% in PBS  
 G3663 Toluidine Blue O Solution,1% in Sodium Borate  
 G3665 Toluidine Blue O Solution,0.5% in Sodium Borate  
 G3668 Toluidine Blue O Solution