

## 阿利新蓝醋酸染色液(8GX,0.5%)

货号: G1566

规格: 100mL

保存: 室温, 避光保存, 有效期 6 个月。

### 产品介绍:

肥大细胞(Mast cell)是疏松结缔组织内常见的细胞,常成群的沿着小血管和淋巴管分布,也常见于支气管和胰腺的小叶间导管周围,一般细胞较大,直径约为 20-30 $\mu$ m,呈圆形或椭圆形,胞核较小、胞质内充满粗大且具有异染性嗜酸性颗粒。

阿利新蓝醋酸染色液(8GX,0.5%)可以通过和肝素结合的方式将肥大细胞胞质染成蓝绿色,在成熟肥大细胞胞质中有时呈现颗粒状,使用核固红衬染细胞核后对比较为清楚。亦可和番红联合染色,可以对幼稚型肥大细胞和成熟型肥大细胞进行区分染色。

### 自备材料:

10%中性福尔马林固定液、染缸、系列乙醇、3%冰乙酸、复染液

### 操作步骤: (仅供参考)

1. 取新鲜组织立即固定于 10%中性福尔马林固定液中,常规脱水包埋。
2. 切片厚度 5-6 $\mu$ m,常规脱蜡至水。
3. 滴加 3%冰乙酸润洗 2min。
4. 用阿利新蓝醋酸染色液(8GX,0.5%)滴染 15-30min。
5. 蒸馏水洗 1min。
6. (可选)核固红复染 5min,蒸馏水洗 5-10s。
7. 系列乙醇从 95%乙醇脱水,二甲苯透明,中性树胶封固。

### 染色结果:

肥大细胞颗粒	蓝绿色到蓝色
细胞核	复染色

### 注意事项:

1. 肥大细胞染色时,应注意组织要新鲜,取出后立即固定。
2. 如无 10%中性福尔马林固定液,可用 4%多聚甲醛代替。
3. 为了您的安全和健康,请穿实验服并戴一次性手套操作。





## Alcian Blue Acetic Acid Stain Solution, 0.5%

**Cat:** G1566

**Size:** 100mL

**Storage:** RT, avoid light, valid for 6 months.

### Introduction

Mast cells are common cells in loose connective tissue. They are often distributed in groups along small blood vessels and lymphatic vessels. They are also common around interlobular ducts of bronchus and pancreas. Generally, the cells are large, with a diameter of about 20-30  $\mu\text{m}$ . It is round or oval, the nucleus is small, and the cytoplasm is filled with coarse and metachromatic eosinophilic particles.

Alcian Blue Acetic Acid Stain Solution, 0.5% can dye the cytoplasm of mast cells into blue-green by binding with heparin. It sometimes appears granular in the cytoplasm of mature mast cells. It is clear after nuclear fixation red is used to lining the nucleus. It can also be stained with safranin, which can distinguish between immature mast cells and mature mast cells.

### Self Provided Materials

10% neutral formalin fixative, dye vat, series of ethanol, 3% glacial acetic acid, re-dyeing solution

### Protocols(for reference only)

1. Pick the fresh tissues, immediately fix in 10% neutral formalin fixative and embed by routine dehydration.
2. Cut slice in thickness of 5-6 $\mu\text{m}$ . Conventionally dewax to water.
3. Add 3% glacial acetic acid and wash for 2min.
4. Add Alcian Blue Acetic Acid Staining Solution, 0.5% onto the section and stain for 15-30min.
5. Wash with distilled water for 1min.
6. (optional) counterstain with nuclear fast red staining solution for 5min and wash with distilled water for 5-10s.
7. Treat with series of ethanol from 95% ethanol, transparent by xylene and seal with resinene.

### Result

Mast cell granules	Blue-Green to Blue
Nuclear	The re-dyeing solution color

### Note

1. When conduct mast cells staining, note that the tissue should be fresh and fixed immediately after removal.
2. If there is no 10% neutral formalin fixative, 4% formaldehyde normal saline can be used instead.
3. For your safety and health, please wear experimental clothes and disposable gloves.

