

软骨染色液(甲苯胺蓝法)

货号: G2543

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)是一种常用的人工合成染料, 属于醌亚胺染料类。这类染料主要含有胺基和醌型苯环两个发色团, 从而成色原显色。甲苯胺蓝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。甲苯胺蓝不仅含有两个发色团, 还含有两个助色团, 能促使染料电离, 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; 肥大细胞胞质内含有肝素和组织胺等异性物质遇到甲苯胺蓝可呈异染性紫红色。

操作说明: (仅供参考)

1. 常规脱钙, 包埋, 固定。
2. 石蜡切片入二甲苯 2 次。
3. 系列乙醇各 1min。自来水洗 2min。
4. 入软骨染色液(甲苯胺蓝法)浸染 30min。根据不同组织, 染色时间不完全相同。
5. 自来水洗 2min, 滤纸吸干水分。
6. 丙酮分化至软骨细胞呈紫蓝色清楚可见。
7. 逐级乙醇脱水。
8. 二甲苯透明, 中性树胶封固。

染色结果:

软骨、成骨细胞	紫红色
背景	淡蓝色

注意事项:

1. 第一次使用本试剂时建议先取 1-2 个样品做预实验。
2. 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。
3. 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

参考文献:

Toluidine Blue Cartilage Stain Solution

Cat: G2543

Size: 100mL

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

Introduction

Toluidine Blue O is a commonly used synthetic dye, which belongs to quinone imine dyes. This kind of dye mainly contains two chromophores of amino group and quinone type benzene ring, thus forming the chromogenic primary color. The cation in toluidine blue has the function of staining. The acid substance of tissue and cell is combined with the cation and stained. Toluidine blue contains not only two chromophores, but also two auxochromes, which can make dye ionize, help chromophores produce dyeing power to tissues, make the tissue cells on the section colored, and can dye the nucleus blue; when meeting with toluidine blue, heparin and histamine and other heterochromatic substances in the cytoplasm of mast cells, can be heterochromatic purplish red.

Protocols(for reference only)

1. Conventional decalcification, embedding and fixation.
2. Dewax the paraffin section in xylene twice.
3. Dehydrate in series of ethanol for 1 min respectively
4. Wash in tap water for 2min.
5. Soak in Toluidine Blue Cartilage Stain Solution and stain for 30min. According to different tissues, the staining time is not the same.
6. Wash in tap water for 2min, and absorb water with filter paper.
7. Differentiate by acetone until that chondrocytes shows clear purple blue color.
8. Dehydration in series of ethanol .
9. Transparent by xylene and seal with resinene.

Result

Cartilage, Osteoblast	Purple Red
Background	Light Blue

Note

1. When using this reagent for the first time, it is recommended to take 1-2 samples for pre experiment.
2. The staining time of Toluidine Blue Cartilage Stain Solution should be prolonged for the staining of gastric mucosa and cartilage.
3. For your safety and health, please wear experimental clothes and disposable gloves.

Reference