

Weigert 碱性品红染色液

货号: G1592

规格: 100mL

保存: 2-8°C, 避光保存, 有效期 6 个月。

产品介绍:

弹力纤维 (Elastic Fiber) 主要分布于人体的动脉壁、肺泡壁、皮肤, 新鲜时呈黄色, 折光性强。常用的弹力纤维染色法有 Gomori 醛品红法、Weigert 弹力纤维染色法、地衣红法、维多利亚蓝法、铁碘苏木素法等。

Weigert 碱性品红染色液的染色原理是 Weigert 碱性品红与铁离子形成 Lake 复合物, 其游离的氨基与弹力纤维内的氢键牢固结合呈黑色。Weigert 弹力纤维染色尤其适用于显示成熟的弹力纤维。

操作步骤: (仅供参考)

1. 石蜡切片脱蜡至水。
2. (可选) 滴加配制好的 Weigert 氧化剂氧化切片 3min。稍水洗。
3. (可选) 滴加 Weigert 漂白剂漂白切片 3min, 蒸馏水冲洗 1-3min。
4. 切片入 Weigert 碱性品红染色液, 加盖浸染 1~3h 或 56°C 下染色 1h。
5. 用酸性分化液分化至无染液脱下。充分水洗 2-5min。
6. (可选) 用配制好的 VG 染色液复染 30s, 快速水洗。
7. 用 95%乙醇迅速分化。
8. 无水乙醇脱水, 二甲苯透明, 中性树胶封片。

染色结果:

弹力纤维	紫蓝色至紫黑色
胶原纤维	红色
肌纤维、红细胞	黄色

注意事项:

1. 大多数固定液均可, 但含有铬盐的固定液固定后, 染色较浅且容易弥散。
2. 若仅显示成熟的弹性纤维, 可省去上述氧化和漂白步骤, 石蜡切片脱蜡至 95%乙醇即可入 weigert 碱性品红染色液染色。
3. 酸性分化液主要使切片背景清晰, 分化稍长一些对染色无损害。
4. 为了您的安全和健康, 请穿实验服并戴一次性手套操作。





Resorcin-Fuchsin Solution

Cat: G1592

Size: 100mL

Storage: 2-8°C, avoid light, valid for 6 months.

Introduction

Elastic Fiber is mainly distributed in the arterial wall, alveolar wall and skin of human body. It is yellow when fresh and has strong refraction. The commonly used dyeing methods of elastic fiber include Gomori Aldehyde-Fuchsin Method, Weigert Elastic Fiber Method, Orcein Method, Victoria Blue Method, and Iron Iodine Hematoxylin Method.

The dyeing principle of Resorcin-Fuchsin Solution is that Weigert basic fuchsin and iron ions form a Lake complex, and the free amino group firmly combines with the hydrogen bond in the elastic fiber in a black color. Weigert elastic fiber dyeing is particularly suitable for displaying mature elastic fibers.

Protocols (for reference only)

1. Dewax to distilled water.
2. (Optional) Oxidize in prepared Weigert Oxidant for 3 min. Slightly wash with water.
3. (Optional) Decolorize in Weigert Decolorizing Solution for 3 min, then rinse in distilled water for 1-3 min.
4. Soak the section in Modified Weigert's Elastic Stain Solution and cover staining for 1-3h at RT or 1h in 56°C state.
5. Differentiate by Acid Differentiation Solution until no dye flow down. Absolutely rinse in water for 2-5 min.
6. (Optional) Re-dyeing with VG Solution for 30s, then quickly wash with water.
7. Quickly differentiate in 95% alcohol.
8. Dehydrate in absolute alcohol, transparent by xylene and seal with resinene.

Result

Elastic Fiber	Purple Blue to Purple Black
Collagen Fiber	Red
Muscle Fiber, Red Blood Cell	Yellow

Note

1. Most fixatives can be used, but the sections fixed in the fixative containing chromium salt is dyed light and easy to disperse.
2. If only to display mature elastic fibers, the above steps of oxidation and bleaching can be omitted. Paraffin section can be dewaxed to 95% ethanol and then stained with Modified Weigert's Elastic Stain Solution.
3. Acid Differentiation Solution mainly makes the background of sections clear, and slightly longer differentiation has no damage to staining.
4. For your safety and health, please wear experimental clothes and disposable gloves.

