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胶原纤维-弹力纤维复合染色试剂盒(EVG-Victoria 法)

货号: G1595

规格: 4×50mL/4×100mL

保存: 2-8℃, 避光保存, 有效期1年。

产品组成:

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NO	名称	4×50mL	4×100mL	保存
试剂(A):	试剂(A1): Tanake 氧化剂 A	25mL	50mL	室温,避光
Tanake 氧化剂	试剂(A2):Tanake 氧化剂 B	25mL	50mL	室温
临用前,取 A1,	A2 等量混合即为 Tanake 氧	化剂,建议	3 小时内使用5	· 完毕。
试剂(B): Tanake 漂白剂		50mL	100mL	室温
试剂(C): 维多利亚蓝染色液		50mL	100mL	2-8℃,避光
试剂(D): 改良 V	VG 染色液	50mL	100mL	室温,避光

产品介绍:

胶原纤维(Collagen Fiber)是结缔组织中分布最广含量最多的一种纤维,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。组织常规染色中常需要同时显示两种纤维以研究纤维间相互共存的关系和与其他结构的依存关系,据此在纤维单独染色试剂盒的基础上产生了EVG 复合染色试剂盒,由常规弹力纤维染色和 VG 胶原染色联合使用。

本试剂盒采用维多利亚蓝染色液和改良 VG 染色液联合染色机制,可在一张切片上对弹力纤维和胶原纤维进行同时染色,且不易褪色。经染色后,弹力纤维着蓝色,胶原纤维着红色,肌肉着黄绿色,适用于观察组织内弹力纤维和胶原纤维是否存在异常病变,从而协助诊断。本试剂盒质量上乘,不含苦味酸,操作简单,染色稳定、颜色靓丽清晰。

操作步骤: (仅供参考)

- 1. 新鲜取材,经固定后,常规石蜡包埋,切片 3-8um。
- 2. 石蜡切片热处理 50min 后二甲苯脱蜡 20min,梯度乙醇脱蜡至蒸馏水,每步骤 5min。
- 3. 用配制好的 Tanake 氧化剂氧化 3min。蒸馏水洗 1min。
- 4. 用 Tanake 漂白剂漂白 3min,蒸馏水洗 1min。
- 5. 70%乙醇稍洗,切片入维多利亚蓝染色液的染缸中,室温浸染 15-30min。(见注意事项 3)
- 6. 70%乙醇浸洗 2 次,每次 10s,期间把切片提起放下,至切片无染色液脱出为止,蒸馏水洗 1min。
- 7. 入改良 VG 染色液染色 5-10min,蒸馏水洗去多余染液。
- 8. 75%、85%、95%、100%乙醇常规脱水,每个3-5s,二甲苯透明2次,每次1min,中性树胶封片。
- 9. 镜检观察染色结果。

染色结果:

弹力纤维	蓝色	
胶原纤维	红色	
肌纤维、红细胞及背景	黄色或黄绿色	

注意事项:

- 1. 切片脱蜡应充分,系列乙醇应经常更换。
- 2. 若只想显示成熟弹力纤维,可省略氧化漂白步骤,直接进行后续染色。
- 3. 维多利亚蓝染色液稳定,保存时间长,并可反复使用。
- 4. 维多利亚蓝染色液中的有效成分易挥发,以浸染为佳,浸染时间根据实际需要染色深度可适当延长。
- 5. 改良 VG 染色液染色稳定,水洗不易褪色,可充分清洗。
- 6. 为了您的安全和健康,请穿实验服并戴一次性手套操作。

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Collagen Fiber And Elastic Fiber Staining Kit(EVG-Victoria Method)

Cat: G1595

Size: $4 \times 50 \text{mL}/4 \times 100 \text{mL}$

Storage: 2-8°C, avoid light, valid for 1 year.

Kit Components

	Reagent	4×50mL	4×100mL	Storage
Reagent(A):Tanake	A1: Tanake Oxidant A	25mL	50mL	RT, avoid light
Oxidant	A2: Tanake Oxidant B	25mL	50mL	RT
advance.	rith A2 in equal amount to for	rm Tanake Oxid	ant, it is not su	ggested to prepare ii
Reagent(B): Tanake Bleaching Solution		50mL	100mL	RT
Reagent(C): Victoria Blue Staining Solution		50mL	100mL	2-8°C, avoid light
Reagent(D): Modified VG Staining Solution				2 0 C, a ord ingine

Introduction

Elastic fibers are mainly distributed in the arterial walls, alveolar walls, and skin of the human body. When fresh, they are yellow and have strong refractive properties. In routine tissue staining, it is often necessary to simultaneously display two types of fibers to study the coexistence relationship between fibers and their dependence on other structures. Based on this, an EVG composite stain was developed on the basis of a separate fiber staining kit, which is used in combination with conventional elastic fiber staining and VG collagen staining.

This reagent kit adopts a combined staining mechanism of victoria blue staining solution and modified VG staining solution, which can simultaneously stain elastic fibers and collagen fibers on a single slice without fading easily. After staining, the elastic fibers are blue, the collagen fibers are red, and the muscles are yellow. It is suitable for observing whether there are abnormal lesions in the elastic fibers and collagen fibers in the tissue, thus assisting in diagnosis. This reagent kit has excellent quality, simple operation, stable staining, and beautiful and clear colors.

Protocol(for reference only)

- 1. Take fresh samples, fix and embed with paraffin. Cut the section into 3-8um.
- 2. After 50min of heat treatment on paraffin slices, dewax by xylene for 20min, then treat with gradient ethanol to distilled water for each step 5min.
- 3. Treat with Tanake Oxidant for 3min, then wash with distilled water for 1min.
- 4. Treat with Tanake Bleaching Solution for 3min, then fully wash with distilled water for 1min.
- 5. Slightly wash with 70% ethanol. Add into Victoria Blue Staining Solution, cover and dip at room temperature for 15-30min.(see note 3)
- 6. Soak the slices in 70% ethanol twice, each time for 10 seconds. During this time, lift and place the slices down until no staining solution is removed from the slices, and wash them slightly with running water..
- 7. Dye with Modified VG Staining Solution for 5-10min, and wash off with distilled water.
- 8. 75%, 85%, 95%, and 100% ethanol were subjected to conventional dehydration for 3-5 seconds each. Xylene was transparent twice for 1min each time, and neutral gum was used for sealing.
- Microscopic observation of staining results.

Result

Elastic fiber	Blue
Collagen fiber	Red
Muscle fiber, Red blood and Background	Yellow or Yellowish Green

Note

- Slice dewaxing should be clean, and series ethanol should be frequently replaced with a new solution.
- 2. If you only want to display mature elastic fibers, you can skip the oxidation bleaching step and proceed with subsequent dyeing directly.
- 3. Victoria Blue Staining Solution is stable, stored for a long time, and can be reused.
- 4. The active ingredients in Victoria Blue Staining Solution are easily volatile, and immersion dyeing is preferred. The immersion time can be appropriately extended according to the actual dyeing depth required.
- 5. The Modified VG Staining Solution is stable in dyeing, can be thoroughly cleaned.
- For your safety and health, please wear laboratory clothes and disposable gloves for operation.

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