V02

苏木素-伊红(HE)染色试剂盒III

货号：G1126
规格：5×100mL/5×500mL/5×5L
保存：室温，避光保存，有效期至少 1 年。

产品组成：

名称	5×100mL	5×500mL	5×5L	保存
试剂(A):预染液	100mL	500mL	5L	室温
试剂(B):苏木素染液	100mL	500mL	5L	室温，避光
试剂(C):分化液	100mL	500mL	5L	室温
试剂(D):返蓝液	100mL	500mL	5L	室温
试剂(E):伊红染液	100mL	500mL	5L	室温，避光

产品介绍：

苏木精-伊红染色法，简称 HE 染色法，是病理学常规制片中最常用的染色方法。苏木精染液为碱性，主要使细胞核内的染色质与胞质内的核糖体着紫蓝色；伊红为酸性染料，主要使细胞质和细胞外基质中的成分着红色。

此试剂盒中苏木素染色液和伊红染色液配合使用，使细胞核呈鲜艳鲜明的蓝紫色到蓝色，核仁、核膜清晰，核内絮状颗粒样染色质细腻；细胞质呈鲜艳粉红色，细胞质内嗜酸性颗粒呈鲜红色，胶原纤维呈淡粉色，弹性纤维呈亮粉色，红细胞呈朱红色，对比明显，分辨良好，有利于诊断医师观察，效果理想。预染液的加入，保证切片染色效果达到高清、恒染。

操作步骤：（*仅供参考*）

（一）石蜡切片染色

1. 石蜡切片于二甲苯I、II中各脱蜡 10 分钟；
2. 经无水乙醇和 95%乙醇各 5 分钟，经 80%和 70%乙醇各 3 分钟，蒸馏水浸洗 3 分钟；
3. 预染液孵育 3min，倾去多余液体；
4. 直接滴加苏木素染液染色 5-10 分钟，蒸馏水洗 20 秒；
5. 分化液分化 1 分钟，蒸馏水洗 20 秒；
6. 返蓝液反蓝 3 分钟，蒸馏水洗 1 分钟；
7. 伊红染液染色 30 秒-2 分钟，蒸馏水分色 2-3 秒；
8. 95%乙醇脱水 3-5 秒，无水乙醇I脱水 3-5 秒、II中脱水 1 分钟，二甲苯或环保透明脱蜡液I、II中各透明 1 分钟；
9. 中性树胶封片，光学显微镜检。

（二）冰冻切片染色

冰冻切片不用脱蜡，可固定后直接染色，其方法与石蜡切片相同，染色时间应比石蜡切片适当缩短。

染色结果：

细胞核	紫蓝色到蓝色
红细胞	正红色
细胞质、细胞间质、各种纤维	不同程度的粉红色

注意事项：

1. 切片脱蜡应尽量干净，系列乙醇应经常更换新液。
2. 第一次使用本试剂盒时建议先取 1-2 个样品做预实验。
3. 伊红在水洗和梯度乙醇中会出现脱色，因此建议快速脱水（提起放下 2-3 次即可）。
4. 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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Hematoxylin-Eosin (HE) Stain Kit(III)

Cat: G1126
Size: 5×100mL/5×500mL/5×5L
Storage: RT, avoid light, valid for 1 year.

Kit Components

Reagent	5×100mL	5×500mL	5×5L	Storage
Reagent (A): Pretreatment Solution	100mL	500mL	5L	RT
Reagent (B): Hematoxylin Stain Solution	100mL	500mL	5L	RT, avoid light
Reagent (C): Differentiation Solution	100mL	500mL	5L	RT
Reagent (D): Bluing Solution	100mL	500mL	5L	RT
Reagent (E): Eosin Y Stain Solution	100mL	500mL	5L	RT, avoid light

Introduction

Hematoxylin eosin staining, abbreviated as HE staining, is the most commonly used staining method in routine pathological sections. Hematoxylin staining solution is alkaline, mainly causing the chromatin in the nucleus and ribosomes in the cytoplasm to turn purple blue; Eosin is an acidic dye that mainly causes components in the cytoplasm and extracellular matrix to turn red.

The combination of hematoxylin staining solution and eosin staining solution in this reagent kit results in a bright blue purple to blue color in the nucleus, clear nucleolus and nuclear membrane, and delicate flocculent granular chromatin inside the nucleus; The cytoplasm is bright pink, with eosinophilic particles in the cytoplasm appearing bright red, collagen fibers appearing light pink, elastic fibers appearing bright pink, and red blood cells appearing vermilion red. The contrast is obvious and the resolution is good, which is beneficial for diagnostic physicians to observe, and the effect is ideal. The addition of Pretreatment Solution ensures that the staining effect of the slices reaches high definition and constant staining.

Protocol(*for reference only*)

For paraffin sections

1. Dewax Paraffin sections in xylene I and II for 10min each;
2. Soak in anhydrous ethanol and 95% ethanol for 5min each, soak in 80% and 70% ethanol for 3min each, and rinse with distilled water for 3min;
3. Incubate with Pretreatment Solution for 3min and discard excess solution;
4. Directly add Hematoxylin Stain Solution and stain for 5-10min, then wash with distilled water for 20s;
5. Treat with Differentiation Solution for 1min and wash with distilled water for 20s;
6. Treat with Bluing Solution for 3min, wash with distilled water for 1min;
7. Dye with Eosin Y Stain Solution for 0.5-2min, and separate with distilled water for 2-3s;
8. Dehydrate by 95% ethanol for 3-5s, then anhydrous ethanol I for 3-5s, anhydrous ethanol II for 1min, and transparent by xylene or environmentally friendly transparent dewaxing solution I and II for 1min each;
9. Seal with resinene and observe under optical microscope.

For frozen sections

1. Restore the frozen sections to room temperature.
2. (*optional*)Fix the sections with 10% Formalin (or 4% Formaldehyde, or 4% Paraformaldehyde) for 10-30min .Wash with PBS twice.
3. Follow Paraffin Section Staining staining steps.

Result

Nucleus	Blue
Red Blood Cell	Red
Cytoplasm, intercellular matrix, various fibers	Different Degrees of Pink

Note

1. Slice dewaxing should be as clean as possible. Series of ethanol should be replaced frequently.
2. When using this kit for the first time, it is recommended to take 1-2 samples for pre-test.
3. Eosin will decolorize in water washing and gradient ethanol, so it is recommended to dehydrate quickly (lift and let go 2-3 times).
4. For your safety and health, please wear experimental clothes and disposable gloves.