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髓鞘染色试剂盒(牢固蓝-伊红法)

货号: G3240 规格: 3×50mL

保存:室温,避光保存,有效期1年。

产品组成:

名称	3×50mL	保存
试剂(A): 牢固蓝染色液	50mL	室温,避光
试剂(B): 牢固蓝分化液	50mL	室温
试剂(C): 伊红染色液	50mL	室温,避光

产品介绍:

髓鞘(myelin sheath)是神经细胞的质膜沿着轴索的轴心螺旋缠绕形成的多层脂双层结构,髓鞘上有郎飞氏结,可使神经冲动跳跃传递。髓鞘染色在病理诊断中有一定意义,髓鞘的病理变化分为早期、中期和晚期。在早期着色较深;病变中期阶段的髓鞘变性形成脂滴,可用脂质染色加以显示,后期彻底溃变并被吞噬细胞清除,不再有阳性结果。

很多疾病都可以引起髓鞘的变化,髓鞘染色试剂盒(牢固蓝-伊红法)可以显示病理情况下髓鞘是否完整、变性、坏死程度及修复情况,对神经组织的病理诊断和研究均有意义。例如神经纤维受损时,髓鞘可出现膨胀、曲折成球形、断裂或脱鞘完全消失等改变。

操作步骤:(仅供参考)

- 1. 石蜡切片 5~8μm, 脱蜡至 95%乙醇。
- 2. 入牢固蓝染色液,室温过夜(冰冻切片染色时间不超过 16h)。
- 3. 入95%乙醇洗去多余染色液,蒸馏水冲洗。
- 4. 入牢固蓝分化液分色 15s。
- 5. 入 70% 乙醇分色 30s 至灰白质清晰。
- 6. 蒸馏水冲洗。(如果分色不足,可重复4-5步骤)。
- 7. 入伊红染色液,复染 30s~2min,快速水洗去除多余染料。
- 8. 用 95%、100%乙醇快速脱水,二甲苯透明,中性树胶封片。

染色结果:

髓鞘	蓝色
背景	红色

注意事项:

- 1. 分化这一步很关键,应严格控制分化时间,可在镜下观察分化程度。
- 2. 固定液以10%的福尔马林为佳。
- 3. 切片不宜太厚,应控制在8~9um以内,否则易出现脱片或过染等现象。
- 4. 如室温染色效果不佳或者缩短染色时间,可在56℃下染色。
- 5. 复染液染色水洗后不能用 70%乙醇脱水,否则会脱去牢固蓝的颜色。

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Luxol Fast Blue Myelin Stain Kit (Eosin Method)

Cat: G3240 Size: 3×50mL

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

Kit Components

Reagent	3×50mL	Storage
Reagent(A): LFB Staining Solution	50mL	RT, avoid light
Reagent(B): LFB Differentiation Solution	50mL	RT
Reagent(C): Eosin Staining Solution	50mL	RT, avoid light

Introduction

Myelin sheath is a multilayer lipid double-layer structure formed by the plasma membrane of nerve cells spirally winding along the axis of axon. There is Langfei's node on the myelin sheath, which can make the nerve impulse and jump to transmit. Myelin staining has certain significance in pathological diagnosis. The pathological changes of myelin sheath can be divided into early, middle and late stages. In the early stage of the lesion, the color is deep. In the middle stage, the myelin degenerated into lipid droplets, which can be displayed by lipid staining. In the late stage, the myelin sheath degenerated completely and is cleared by phagocytes, so there is no positive result.

Many diseases can cause the change of myelin sheath. Luxol Fast Blue Myelin Stain Kit (Eosin Method) can show whether the myelin sheath is complete, denatured, necrotic and repaired under pathological conditions. It has significance for the pathological diagnosis and research of nerve tissue.

Protocols(for reference only)

- 1. Cut into paraffin section in 5-8μm thick, then dewax to 95% ethanol.
- Soak in LFB Staining Solution and stay overnight at room temperature (the staining time of frozen section shall not exceed 16h). Wash the excess dye solution in 95% ethanol, rinse in distilled water.
- 3. Differentiate by LFB Differentiation Solution for 15s.
- 4. Differentiate in 70% ethanol for 30s till the gray white matter is clear
- 5. Rinse in distilled water(if the color differentiation is insufficient, can repeat steps 3 and 4).
- 6. Re-dyeing with Eosin Staining Solution for 30s- 2min, wash with water.
- 7. Dehydrate in 95% and 100% ethanol, transparent by xylene and seal with resinene.

Result

Myelin Sheath	Blue	
Background	Red	

Note

- 1. Differentiation is a key step. The differentiation time should be observed under the microscope.
- 2. It is better to use 10% formalin as fixative.
- 3. The section should be controlled within 8-9 µm, otherwise, it is easy to take off the section or over dye.
- 4. If the dyeing effect at room temperature is not good or shortening the dyeing time, can stain at 56 °C.
- After washing away the re-dyeing solution, it is not advised to dehydrate in 70% ethanol, otherwise the blue color of Luxol fast blue will be removed.

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