

普鲁士蓝染色液(核固红法)

产品简介:

含铁血黄素(Hemosiderin)是一种血红蛋白源性色素,为金黄色或棕黄色颗粒,因其含铁,且为金黄色,故称为含铁血黄素。当红细胞被巨噬细胞吞噬后,在溶酶体酶的作用下,血红蛋白被分解为不含铁的橙色血质和含铁的含铁血黄素。普鲁士蓝反应(Prussian blue reaction)又称为含铁血黄素染色,即经过亚铁氰化钾和稀酸处理后可以产生蓝色,常见于吞噬细胞或间质内,其染色原理在于亚铁氰化钾溶液使三价铁离子从蛋白质中被稀盐酸分离出来,三价铁与亚铁氰化钾反应,生成一种不溶解的蓝色化合物即三价铁的亚铁氰化物。

Leagene 普鲁士蓝染色(Perls Stain)用于显示局部组织内的各种出血性病变,常见于吞噬细胞内,可以很好地区分含铁血黄素与其他色素,该染色液稳定性好、可以长期保存、不易产生沉淀、应用范围广,在反应后可用红色染色剂进行复染,如核固红、伊红、中性红等。该染色液的复染液采用核固红,是最经典、最常用的复染法。该试剂仅用于科研领域,不适用于临床诊断或其他用途。

产品组成:

名称 \ 编号		DJ0001 2×50ml	DJ0001 2×100ml	Storage
试剂(A): Perls Stain	A1: Perls Stain A	25ml	50ml	RT
	A2: Perls Stain B	25ml	50ml	RT
临用前, 取 A1、A2 等量混合即为 Perls Stain, 不宜提前配制。				
试剂(B): 核固红染色液		50ml	100ml	RT
使用说明书		1 份		

自备材料:

- 1、固定液: 10%中性福尔马林、4%多聚甲醛等
- 2、系列乙醇、二甲苯或浸蜡脱蜡透明液、中性树胶、5%草酸

操作步骤(仅供参考):

(一)石蜡切片染色

- 1、组织固定于 10%中性福尔马林固定液, 常规脱水包埋。
- 2、切片厚度 4μm, 常规二甲苯或浸蜡脱蜡透明液脱蜡至水, 蒸馏水水洗 1min。
- 3、切片入 Perls Stain(见注意事项 2)浸染 15~30min。
- 4、蒸馏水充分冲洗 2~5min。

5、入核固红染色液淡染细胞核 5~10min, 自来水冲洗 1~5s。

6、常规脱水, 二甲苯或浸蜡脱蜡透明液透明, 中性树胶封固

(二)冰冻切片染色

1、无需脱蜡, 直接迅速用蒸馏水冲洗 2~3min。

2、染色、封固步骤同石蜡切片的染色步骤, 时间可以相应缩短。

(三)细胞染色

1、4%多聚甲醛固定 10~20min。

2、自来水冲洗 2 次, 每次 2min。

3、蒸馏水冲洗 2 次, 每次 2min。

4、染色、封固步骤同石蜡切片的染色步骤, 但操作时间应相应延长。。

染色结果:

含铁血黄素或三价铁	蓝色
细胞核、其他组织	红色

阴性对照(可选):

取连续切片脱蜡至水; 入 5%草酸孵育 2~6h, 经 Perls Stain, 其余步骤同上; 结果为阴性。

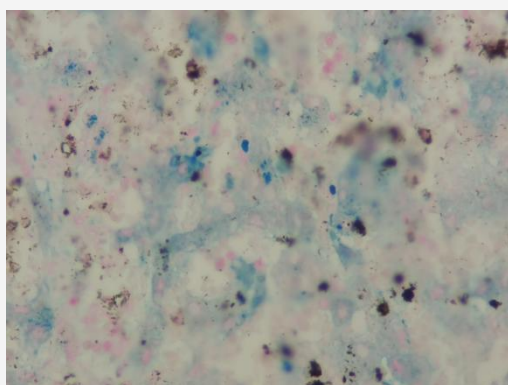
注意事项:

- 1、切片脱蜡应尽量干净, 组织固定常采用 10%中性福尔马林, 经普通福尔马林长期固定后, 组织会有损伤; 避免使用酸性固定剂, 铬酸盐处理也会妨碍铁的保存。
- 2、整个操作过程中容器要干净, 避免用金属铁制品, 洗切片和容器时以蒸馏水为宜, 因普通水内含铁质; Perls Stain 染色时应根据样本情况调整着色时间。
- 3、所有切片都应使用同一个阳性对照切片, 选择适合的对照非常重要, 尸检肺组织是一个很好的对照, 包含相当数量的铁阳性巨噬细胞(心衰细胞)。
- 4、冰冻切片和细胞染色, 最好根据具体情况摸索实验条件。
- 5、试剂开封后请尽快使用, 以防影响后续实验效果。
- 6、为了您的安全和健康, 请穿实验服并戴一次性手套操作。

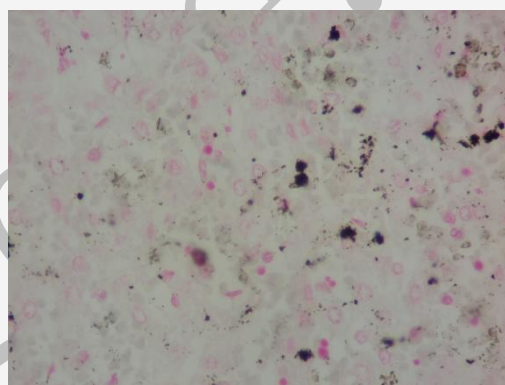
有效期: 12 个月有效。常温运输和保存。

相关产品:

产品编号	产品名称
DC0032	Masson 三色染色液
DF0111	组织固定液(10% NBF)
DH0006	苏木素伊红(HE)染色液(醇溶)
DH0085	酸性乙醇分化液(1%)
DJ0010	普鲁士蓝染色液(DAB 增强法)
DM0007	瑞氏-姬姆萨复合染色液
DZ2011	环保浸蜡脱蜡透明液
IH0265	中性树胶
TC0699	植物总糖和还原糖检测试剂盒(DNS 比色法)

附: 染色效果图


出血肝脏组织 (阳性)



出血肝脏组织 (阴性)

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