

Masson 三色染色液

产品简介:

结缔组织狭义上是指其含有的三种纤维: 胶原纤维、网状纤维、弹力纤维, 而胶原纤维 (collagen fiber) 是分布最广、含量最多的一种纤维。Masson 三色染色又称马松染色, 是结缔组织染色中最经典的一种方法, 是胶原纤维染色权威而经典的技术方法。所谓三色染色通常是指染胞核和能选择性的显示胶原纤维和肌纤维, 该法染色原理与阴离子染料分子的大小和组织的渗透有关: 分子的大小由分子量来体现, 小分子量易穿透结构致密、渗透性低的组织; 而大分子量则只能进入结构疏松的、渗透性高的组织, 然而淡绿或苯胺蓝的分子量都很大, 因此 Masson 染色后肌纤维呈红色, 胶原纤维呈绿色(淡绿)或蓝色(苯胺蓝), 主要用于区分胶原纤维和肌纤维。

Leagene Masson 三色染色的特点: ①染色稳定; ②分化时间短; ③色彩清晰鲜艳; ④适用范围广, 适宜于组织的石蜡切片、冰冻切片等染色; ⑤所染切片保存时间长且不易褪色。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		DC0032 7×50ml	DC0032 7×100ml	Storage
试剂(A): Weigert 铁苏木素染色液	A1: Weigert 染液 A	25ml	50ml	RT
	A2: Weigert 染液 B	25ml	50ml	RT
临用前, 取 A1、A2 等量混合即为 Weigert 铁苏木素染色液, 不宜提前配制。				
试剂(B): 酸性乙醇分化液		50ml	100ml	RT
试剂(C): Masson 蓝化液		50ml	100ml	RT
试剂(D): 丽春红品红染色液		50ml	100ml	RT
试剂(E): 弱酸溶液		50ml	100ml	RT
试剂(F): 磷钼酸溶液		50ml	100ml	RT 避光
试剂(G): 苯胺蓝染色液		50ml	100ml	RT
使用说明书		1 份		

自备材料:

- 1、固定液: 选用甲醛升汞或甲醛盐溶液
- 2、蒸馏水、系列乙醇、二甲苯或环保浸蜡脱蜡透明液

操作步骤(仅供参考): 正式染色操作开始前请先做预实验。

- 1、切片常规脱蜡至水, 用配制好的 Weigert 铁苏木素染色 5 ~ 10min。
- 2、用酸性乙醇分化液分化 2~10s, 水洗。
- 3、用 Masson 蓝化液返蓝 30~60s, 蒸馏水洗 1min。
- 4、丽春红品红染色液染色 5 ~ 10min, 蒸馏水稍洗。
- 5、磷钼酸溶液洗 2 ~ 5min(不经水洗)。
- 6、直接入苯胺蓝染色液中染色 1 ~ 3min(不经水洗)。
- 7、用弱酸溶液冲洗切片, 至无蓝色脱出(必要时, 可镜下控制)。
- 8、95%乙醇快速脱水, 无水乙醇脱水 3 次, 每次 5 ~ 10s。
- 9、二甲苯 Leagene 或脱蜡透明液透明 3 次, 每次 1 ~ 2min, 中性树胶封固。

染色结果:

细胞核, 胶原纤维/蛋白	蓝色
胞浆、肌肉、红细胞	红色

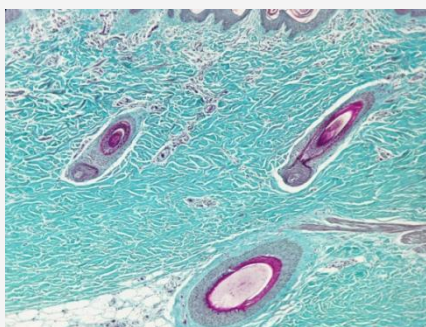
注意事项:

- 1、本染色液可以用滴染或浸染的方法染色, 如片量较少建议用滴染法。
- 2、切片脱蜡应尽量干净, 固定起着重要的作用, 使用不同的固定液可延或缩短染色时间。
- 3、冰冻切片用乙醚-乙醇混合固定液或甲醛型固定液固定 10s~3min, 水洗即可染色。
- 4、取 A1、A2 等量混合即为 Weigert 铁苏木素染液, 一般 24h 失去染色力。
- 5、酸性乙醇分化时间应根据切片厚薄、组织的类别和新旧而定。
- 6、该试剂用 Weigert 铁苏木素染液染核, 也可用 Harris 苏木素染液染核, 但染核后颜色不够鲜艳, 本染色方法主要为了区分胶原纤维和肌纤维, 两者鲜艳清晰即可, 可不染核。
- 7、苏木素染核(蓝色)、丽春红酸性品红染肌纤维(红色)、苯胺蓝(蓝色)或固绿(绿色)染色胶原纤维, 用固绿复染可实现三色染色, 用苯胺蓝只有两种颜色。
- 8、弱酸溶液可使色彩更清晰鲜艳, 如使用量大可自行配制 0.1 ~ 0.3%乙酸溶液予以替代。
- 9、磷钼酸的作用是被红染的胶原纤维分化至无色或淡红色, 肌纤维、纤维素仍呈红色, 另外对胶原纤维起媒染作用, 使胶原纤维与大分子染料更容易的结合, 分化时间根据染色深浅而定, 一般 1 ~ 2min。
- 10、Masson 蓝化液亦可自行配制 Scott 促蓝液或 0.1 ~ 1%碳酸锂水溶液予以替代。
- 11、为了您的安全和健康, 请穿实验服并戴一次性手套操作。

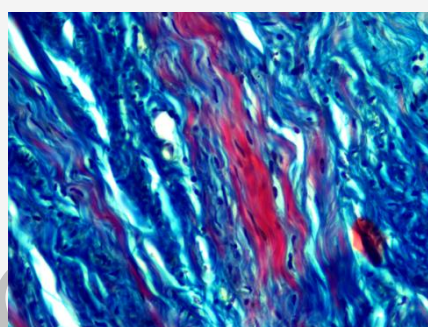
有效期: 12 个月有效, 常温运输和保存。

相关产品:

产品编号	产品名称
DC0032	Masson 三色染色液
DF0135	组织细胞固定液(4% PFA)
DH0005	Mayer 苏木素染色液
DZ2011	环保浸蜡脱蜡透明液
IH0270	甘油明胶封固液
PW0053	Western 抗体洗脱液(碱性)
TC0699	植物总糖和还原糖检测试剂盒(DNS 比色法)



(固绿复染)



(苯胺蓝复染)

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