





## 基底膜六胺银染色试剂盒

货号: G1790 规格: 6×50mL

**保存:** 2-8℃, 避光保存, 有效期 6 个月。

# 产品组成只 SCIENCES

	名称	6×50mL	C保存 SOURT
试剂(A): 氧化剂		50mL	2-8℃, 避光
试剂(B): 铁明研	1溶液	50mL	室温, 避光
	C1:六胺银原液	25mL	2-8℃, 避光
	C2:硼酸钠溶液	25mL	室温
临用前,C1、C2等量混合即为六胺银工作液,现用现配。			
试剂(D): 氯化金	e溶液 O Lences	50mL	2-8℃, 避光
试剂(E): 海波溶液		50mL	室温
试剂(F): 淡绿溶液		50mL	室温,避光

## 产品介绍:

基底膜六胺银(GMS)染色是一种经典显示基底膜的方法。组织经过氧化,使基底膜内的黏多糖暴露出 醛基,醛基把六胺银还原为黑色的金属银。氯化金可使金属银转变为更稳定的金属金,同时使背景更清晰。 ◇ 六胺银染色能清晰地显示基底膜,在肾病变中应用最多,常用来观察肾小球毛细血管基底膜在炎性损伤时 50如断裂、增生、折姭等形态改变。

## 操作步骤: (仅供参考)

- 1. 石蜡切片常规脱蜡复水。
- 2. 切片入氧化剂氧化 15min,蒸馏水洗 2min。
- 3. 入铁明矾溶液染色 10min,蒸馏水洗 2min。
- C1、C2 等量混合配置六胺银工作液,须在2小时内使用。
- 切片充分清洗后倾去多余水分,滴加新配的六胺银工作液覆盖组织,60℃水浴或恒温染色20-30min。 切片呈烟草黄色或黑色为止。入蒸馏水中清洗 1min。
- 6. 置于海波溶液 1 min, 蒸馏水 1 min。
- 7. 用氯化金溶液调色 1-2min,蒸馏水洗 2 min。
- 用淡绿溶液复染 1 min, 蒸馏水洗 1 min。
- 95% 乙醇 5s, 100% 乙醇 I 5s, 100 乙醇 II 30s, 二甲苯透明两次,每次 1min, 中性树胶封封固。

### 染色结果:

肾小球囊基底膜、	肾毛细血管球基底膜	红褐色到黑色
<b>감</b> 봉		绿色

### 注意事项:

- 1. 实验中所用玻璃器皿,应预先放入洗液浸泡过并冲洗干净,烤干。
- 配制好的六胺银工作液是一次性的,不能久放,建议在2个小时内使用完毕。
- 氯化金调色时,需要在显微镜下观察和控制调色结果。
- 淡绿溶液为衬染试剂,可根据实验需要自行更换为 G1100-伊红染色液(HE 染色)、G1120-苏木素伊 红(HE)染色试剂盒等。
- 5. 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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## Methenamine Silver Plating Stain Kit For Basement Membranes

Cat: G1790 Size: 6×50mL

Storage: 2-8°C, avoid light, valid for 6 months.

### Kit Components

	ch Components					
	Reagent		6×50mL	Storage		
	Reagent(A): Oxidant			2-8°C, avoid light		
	Reagent(B): Ammonium Ferric Sulfate Solution		50mL	RT, avoid light		
		C1: Methenamine Silver Solution	25mL	2-8°C, avoid light		
9	Silver Working Solution	C2: Sodium Borate Solution	25mLSO	RT		
	Before use, mix C1 with C2 in equal amount to form Hexamine Silver Working Solution. It is ready to use.					
	Reagent(D): Gold Chloride Solution		50mL	2-8°C, avoid light		
	Reagent(E): Hypo Solution Reagent(F): Light Green Solution		50mL	RT		
			50mL	RT, avoid light		

### Introduction

Methenamine Silver Staining is a classical method to display basement membrane. After oxidation, the mucopolysaccharide in the basement membrane was exposed to aldehyde group, which reduced methenamine silver to black metallic silver. Gold Chloride Solution can transform silver into a more stable metal gold and make the background clearer. Methenamine Silver Staining can clearly show the basement membrane, which is widely used in nephrosis. It is often used to observe the morphological changes of glomerular capillary basement membrane in inflammatory injury, such as rupture, proliferation, folding and so on.

## Protocol (for reference only)

- Dewax the paraffin section in xylene and rehydrate in ethanol.
- 2. Add Oxidant onto the section and oxidize for 15mins. Wash with distilled water for 2min.
- Stain with Ammonium Ferric Sulfate Solution for 10mins. Wash with distilled water for 2min.
- Mix C1 and C2 in equal amounts to prepare Methenamine Silver Working Solution, which must be used within 2 hours.
- After thoroughly cleaning the slices, pour out excess water, add newly prepared Methenamine Silver Working Solution dropwise to cover the tissue, and dye at 60 °C water bath or constant temperature for 20-30 min until the slices turn tobacco yellow or black. Wash in distilled water for 1 min.
- Soak in Hypo Solution for 1 min. Wash with distilled water for 1 mins.
- Color with Gold Chloride Solution for 1-2mins. Wash with distilled water for 2min.
- Re-dyeing with Light Green Solution for 1 min. Wash with distilled water for 1min.
- Dehydrate in 95% ethanol, transparent by xylene and seal with resinene.

#### Result

Basement membrane of glomerular capsule and glomerular capillaries	501	Reddish Brown to Black
Background	LIF	Green

#### Note

- The glass container used in the experiment shall be soaked in the washing liquid in advance, rinsed and dried.
- The prepared silver hexamine working solution is disposable and cannot be put for a long time. It is recommended to use it within 2 hours.
- When gold chloride is used for color matching, it is necessary to observe and control the color matching results under the microscope.
- The light green solution is a lining reagent, which can be replaced with other lining reagents according to the
  observation needs, such as G1100- Eosin Y Stain Solution, For HE, G1120-Hematoxylin-Eosin (HE) Stain
  Kit. etc.
- For your safety and health, please wear experimental clothes and disposable gloves.



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