铝染色液(Lillie 铝试剂法)

货号：G3020
规格：3×50mL
保存：2-8℃，避光保存，有效期 6 个月。

产品组成：

名称		3×50mL	保存
试剂(A): 铝试剂染色液	A1: 铝缓冲液	50mL	2-8℃
	A2: 铝试剂	1g	室温
临用前，按 A1:A2=10mL：0.2g 混合，即为铝试剂染色液，即用即配。			
试剂(B): Lillie 脱色液		50mL	2-8℃
试剂(C):固绿染色液		50mL	室温，避光

产品介绍：

铝在机体大部分经消化道随粪便排出，小部分在睾丸、肾、脾、肌肉、骨骼和脑组织内蓄积。铝在脑中蓄积可引起大脑神经的退化，记忆力衰退，智力和性格也会受到影响，甚至呈现老年性痴呆。当体内铝蓄积量超过正常的 5-16 倍时，可抑制肠道对磷的吸收，干扰体内正常的钙、磷新陈代谢。

铝染色液(Lillie 铝试剂法)的原理在于铝试剂与铝离子结合生成红色的络合物。

操作步骤：(*仅供参考*)

1. 常规固定，常规浸蜡包埋，脱蜡至蒸馏水。
2. 配制铝试剂染色液：临用前，按 A1:A2=10mL：0.2g 混合，即为铝试剂染色液，即用即配，配制后可 4℃短期保存。
3. 提前预热铝试剂染色液至 80～85℃，倒入塑料玻片染色缸，载玻片浸入铝试剂染色液并置于微波炉中，微波 2 档(120℃)加热 30s。取出染缸，置于室温 10min。蒸馏水冲洗 3 次。
4. 入 Lillie 脱色液 5s。蒸馏水冲洗 3 次。
5. 固绿染色液复染 3min。蒸馏水冲洗 3 次。
6. 立片、风干。稍微浸入二甲苯，中性树胶封固。

染色结果：

铝盐	红色
背景	绿色

注意事项：

1. 微波炉加热时应注意微波炉的功率，功率过大时，应减少加热时间。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Aluminum Salt Stain Solution (Lillie Method)

Cat: G3020
Size: 3×50mL
Storage: 2-8℃, avoid light, valid for 6 months.

Kit Components

Reagent		3×50mL	Storage
Reagent (A): Aluminum Stain Solution	A1: Lillie Buffer	50mL	2-8℃
	A2: Aluminum Reagent	1g	RT
Before use, mix A1 with A2 as the radio of 10mL:0.2g to form Aluminum Stain Solution. It is ready to use.			
Reagent (B): Lillie Decolorizing Solution		50mL	2-8℃
Reagent (C): Fast Green Solution		50mL	RT, avoid light

Introduction

Most of aluminum in the body is excreted with feces through the digestive tract, and a small part is accumulated in testicles, kidneys, spleen, muscles, bones and brain tissues. The accumulation of aluminum in the brain can cause the degeneration of brain nerves, memory decline, intelligence and personality will also be affected, and even present Alzheimer's disease. When the amount of aluminum in the body is more than 5-16 times of the normal amount, it can inhibit the absorption of phosphorus in the intestine and interfere with the normal metabolism of calcium and phosphorus in the body.

The principle of Aluminum Salt Stain Solution (Lillie Method) is that aluminum reagent combines with aluminum ion to form red complex.

Protocol(*for reference only*)

1. Conventional fixation, wax immersion and embedding. Dewax to distilled water.
2. Preparation of Aluminum Stain Solution: Before use, mix A1 with A2 as the radio of 10mL:0.2g to form Aluminum Stain Solution. It is ready to use and can be stored at 4 ℃ for a short time.
3. Preheat the Aluminum Stain Solution to 80-85 ℃ in advance, pour it into the plastic slide dyeing container, immerse the slide into the Aluminum Stain Solution and place it in the microwave oven, and heat it for 30s in the second level (120 ℃). Take out the dyeing container and put it at room temperature for 10min.Wash with distilled water for 3 times.
4. Place in Lillie Decolorizing Solution for 5s.Wash with distilled water for 3 times.
5. Re-dyeing with Fast Green Solution for 3 min.Wash with distilled water for 3 times.
6. Erect and air dry.Slightly immerse in xylene and seal with resinene.

Result

Aluminum	Red
Background	Green

Note

1. Pay attention to the power of the microwave oven when heating. If the power is too large, the heating time shall be reduced.
2. For your safety and health, please wear experimental clothes and disposable gloves.