



胍胝质染色（切片染）实验报告

一、实验器材及试剂

1、实验器材

名称	厂家	型号
CO ₂ 恒温培养箱	SANYO	MCO-15AC
洁净工作台	苏净安泰	SW-CJ-1FD
载玻片	Servicebio	
盖玻片	江苏世泰实验器材有限公司	10127105P-G
正置光学显微镜	日本尼康	Nikon Eclipse E100
成像系统	日本尼康	Nikon DS-U3
脱水机	DIAPATH	Donatello
包埋机	武汉俊杰电子有限公司	JB-P5
病理切片机	上海徕卡仪器有限公司	RM2016
冻台	武汉俊杰电子有限公司	JB-L5
组织摊片机	浙江省金华市科迪仪器设备有限公司	KD-P
烤箱	天津市莱玻瑞仪器设备有限公司	GFL-230

2、主要实验试剂

试剂名称	厂家	货号
洗涤液	Servicebio	
苯胺蓝染色液	Servicebio	
脱色液	Servicebio	
抗荧光淬灭封片剂	Servicebio	G1401

二、实验步骤

- 1、切片制备：**脱色后的叶片取材包埋切片后脱蜡至水，纯水洗涤三次。
- 2、切片染色：**切片用洗涤液浸洗 3 次，甩干洗涤液，切入 0.01% 苯胺蓝染色液中常温避光浸染 2 h。
- 3、封片：**切片用洗涤液浸洗 3 次，吸干水分。滴加抗荧光淬灭封片液封片，盖盖玻片。
- 4、拍照：**观察拍照，用荧光显微镜（DAPI 滤光片）观察胍胝质沉积，荧光易淬灭，应尽快拍照，注意避光，切片可短暂保存于 4℃。

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三、结果判读：

胨胨质呈现亮蓝荧光广泛分布在筛管周围。

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Aniline Blue Staining Experimental Report

1. Experimental equipment and reagents

1.1 Experimental equipment

Name	Manufacturer	Model
CO2 incubator	SANYO	MCO-15AC
Clean Bench	Sujing Antai	SW-CJ-1FD
Slides	Servicebio	
Cover glass	Jiangsu Shitai Experimental Equipment Co.,Ltd	10127105P-G
ORTHO OPTICAL MICROSCOPE	NIKON, JAPAN	NIKON ECLIPSE E100
IMAGING SYSTEM	NIKON, JAPAN	NIKON DS-U3
Dehydrator	DIAPATH	Donatello
Embedding machine	Wuhan Junjie Electronics Co., Ltd	JB-P5
Pathology slicer	Shanghai Leica Instrument Co., Ltd	RM2016
Frozen platform	Wuhan Junjie Electronics Co., Ltd	JB-L5
Tissue spreader	Zhejiang Kehua Instrument Co., Ltd	KD-P
Oven	Tianjin Laibo Rui Instrument Equipment Co.,Ltd	GFL-230

1.2 Main experimental reagents

Reagent name	Manufacturer	Article number
Washing liquid	Servicebio	
Aniline blue staining solution	Servicebio	
Decolorizing solution	Servicebio	
Anti-fluorescence quenching	Servicebio	G1401
sealed tablets		

2. Experimental

- 2.1 The decolorized leaves were taken, embedded and sliced, then dewaxed to water and washed with pure water for three times.
- 2.2 Wash the slides with detergent for 3 times, dry the detergent and put into 0.01% aniline blue dye, dip away from light at room temperature for 2 hours.
- 2.3 Seal: The slides were washed with detergent for 3 times to absorb dry water. Drop anti-fluorescence quenching sealing film liquid sealing sheet, cover glass slide .

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2.4 Take photos: observe and take photos. Observe the deposition of callose with fluorescence microscope (DAPI filter). The fluorescence is easy to quench. Take photos as soon as possible and avoid light. The slices can be stored at 4 °C for a shorttime.

3. The results were as follows

3.1 The callose showed bright blue fluorescence and was widely distributed around the sieve tub.

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