



胞质染色(整染)实验报告

一、实验材料及试剂

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
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、脱色:** 新鲜的植物组织(幼嫩的叶片)用脱色液脱色处理。
- 2、染色:** 组织经先经洗涤液3-5次 滤纸吸干多余液,在0.01%苯胺蓝染色液中常温避光漂染2 h。
- 3、铺片及封片:** 组织经先经洗涤液漂洗3-5次 滤纸吸干多余液本并平铺于载玻片上,滴加抗荧光淬灭封片剂,盖盖玻片并轻轻将组织压平不可有气泡。
- 4、拍照:** 观察拍照,用荧光显微镜(DAPI滤光片)观察胞质染色情况,荧光易淬灭,应尽快拍照,注意避光,切片可短暂保存于4℃。

三、结果判读:

胞质呈现亮蓝荧光广泛分布在筛管周围。



Aniline Blue Staining Experimental Report

1. Experimental equipment and reagents

1.1 Experimental equipment

Name	Manufactor	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
Oven	Tianjin Laibo Rui Instrument Equipment Co.,Ltd	GFL-230

1.2 Main experimental reagents

Reagent Name	Manufactor	Article Number
Washing liquid	Servicebio	
Aniline blue staining solution	Servicebio	
Decolorizing solution	Serbicebio	
Anti-fluorescence quenching	Servicebio	G1401
sealed tablets		

2. Experimental

2.1. Decolorization: fresh plant tissues (young leaves) are decolorized with decolorizing solution.

2.2 Dyeing: the tissue was washed with washing solution for 3~5 times, the excess liquid was dried by filter paper, and bleached in 0.01% aniline blue dyeing solution at room temperature without light for 2 hours.

2.3 Spreading and sealing: the tissue is rinsed with washing solution for 3~5 times, the filter paper absorbs the excess liquid and lays it flat on the carrier, dripping with anti-fluorescent sealing agent, cover glass and gently flatten the tissue without air bubbles.

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.

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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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