



植物硬组织切片间苯三酚染色实验报告

一、实验器材及试剂

1、实验器材

名称	厂家	型号
烤箱	天津市莱玻瑞仪器设备有限公司	GFL-230
载玻片	Servicebio	
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

2、主要实验试剂

试剂名称	厂家	货号
间苯三酚		
磷钼酸		
盐酸		

二、实验步骤

- 1、媒染：切片入1%磷钼酸染色 5 s，水洗，晾干。
- 2、染色：用组化笔圈住组织，向组织上滴加适量盐酸（6mol/L）覆盖组织，染色 30 s，继续滴加等量1%间苯三酚染液 A于组织上吹打混匀，染色 2 min。
- 3、封片及拍照：用吸管吸去部分染液后，直接用盖玻片进行封片，在3 min内拍照保存结果。容易褪色，需尽快拍照。

三、结果判读：

木质化成分呈红色，背景无色或者是组织本身的颜色。



Hard Plant Phloroglucinol Stain Report

1. Experimental equipment and reagents

1.1 Equipment

Brand name	Manufactures	Model
Oven	Tianjin Labotery instrument equipment Co. Ltd	GFL-230
Microslide	Servicebio	
Optical Microscopy	Nikon	Nikon Eclipse E100
Imaging system	Nikon	Nikon DS-U3

1.2 Reagent

Reagent	Manufactures	Cat
Phloroglucinol		
Phosphomolybdic acid		
Hydrochloric acid		

2. Experiment procedure

2.1 Put sections into 1% phosphomolybdic acid for 5 s, then wash in water for a few seconds and natural drying.

2.2 Circle the tissue with a PAP pen and add an appropriate amount of hydrochloric acid to cover the tissue. After staining for 30 s, add an equal amount of 1% phloroglucinol to the tissue and uniform mixing. Staining for 2 minutes.

2.3 Transparent and mount

Use a Pasteur pipe to remove the dye liquor and a portion is reserved for sealing. Cover the coverslip directly and take pictures in 5 minutes.

2.4 Microscope observation and collection and analysis images.

3. Result determination

The lignified component is red with a colorless background or the color of the tissue itself.

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