

植物台盼蓝染色实验报告

一、实验器材及试剂

1、实验器材

名称	厂家	型号
洁净工作台	苏净安泰	SW-CJ-1FD
标本瓶	Wanwu	G6008-40ML
照相机	佳能	70D

2、主要实验试剂

试剂名称	厂家	货号
无水乙醇	国药集团化学试剂有限公司	100092683
植物台盼蓝染液套装	Wanwu	G1020

二、实验步骤

1、取适量的植物台盼蓝染液A与无水乙醇按照1:1比例稀释，用镊子将植株幼苗或植物叶片从固定液中取出，浸入纯水中来回漂洗5次，置于滤纸上吸干多余水分后浸入该稀释液中，室温避光染色2-6 h。

2、用镊子将植株幼苗或者叶片取出，浸入纯水中来回漂洗5次，置于滤纸上吸干多余水分后，浸入植物台盼蓝染液B中处理3-16h。

3、用镊子取出植株幼苗或者叶片，浸入纯水中来回漂洗5次，置于滤纸上吸干多余水分后，于装有20ml植物台盼蓝染液C的标本瓶中常温保存，30min后拍照保存结果。

三、结果判读：

植株幼苗或叶片中的死细胞或者细胞膜破损的部位会呈深蓝色，其它部位近乎无色。

Plant trypan blue dyeing experiment report

1.Experimental equipments and reagents

1.1 Experimental equipments

Name	Manufactor	Model
Clean bench	Su Jing An Tai	SW-CJ-1FD
Specimen bottle	Wanwu	G6008-40ML
Camera	Canon	70D

1.2 Main experimental reagents

Reagent name	factory	Article number
Absolute ethanol	Sinopharm Group Chemical Reagent Co., Ltd.	100092683
Plant trypan blue dye solution set	Wanwu	G1020

2. Experimental steps

2.1 Take the appropriate amount of plant trypan blue dye solution A and absolute ethanol at a 1:1 ratio, use tweezers to remove the plant seedlings or plant leaves from the fixing solution, immerse them in pure water and rinse 5 times back and forth, placed on the filter paper Absorb excess water and immerse in this dilution, stain at room temperature for 2~6 h in the dark.

2.2 Take out the plant seedlings or leaves with tweezers, immerse them in pure water and rinse 5 times back and forth, put them on the filter paper to absorb excess water, and immerse them in the plant trypan blue dye solution B for 3~16h.

2.3 Take out the plant seedlings or leaves with tweezers, immerse them in pure water and rinse 5 times, put them on the filter paper to absorb excess water, store them in a specimen bottle containing 20ml plant trypan blue dye solution C at room temperature, and take pictures after 30 minutes Save the result.

3. The results were as follows

The dead cells in the seedlings or leaves of the plant or the damaged parts of the cell membrane will be dark blue, and the other parts are almost colorless.