

番红-固绿染色试剂盒（植物染色）

货号：G1375

规格：2×50mL/2×100mL

保存：室温，避光保存，有效期 1 年。

产品组成：

名称	2×50mL	2×100mL	保存
试剂（A）：番红染色液	50mL	100mL	室温，避光
试剂（B）：固绿染色液	50mL	100mL	室温，避光

产品介绍：

番红是碱性染料能显示维管束植物木质化、木栓化和角质化的组织。固绿是酸性染料，是一种染含有浆质的纤维素细胞组织的染色剂，在染细胞和植物组织上应用极广。导管可以被番红染色，筛管可以被固绿染色。

番红-固绿染色试剂盒（植物染色）适用于高等植物根、茎、叶的染色。

操作步骤：（仅供参考）

- 1、组织固定于 4%多聚甲醛液，常规脱水包埋切片。
- 2、切片脱蜡至水后入番红染色液染色 1-2h。
- 3、自来水稍洗，洗去多余染料。
- 4、入 50%、70%、80%梯度酒精脱色各 1-2min。
- 5、入固绿染色液中染色 1min。无水乙醇脱水两次。
- 6、二甲苯透明、中性树胶封片。

实验结果：

木质化的细胞壁、核	红色
薄壁细胞、细胞质	绿色

注意事项：

- 1、对于较小组织样本（直径小于 1.5mm 的茎或厚度小于 1mm 的叶片）亦可不进行负压处理。
- 2、番红 O-固绿染色液稳定，保存时间长，可反复使用多次。
- 3、为了您的安全和健康，请穿实验服并戴一次性手套操作。

Saffron-O and Fast Green Stain Kit (For Plant)

Cat: G1375

Size: 2×50mL/2×100mL

Storage: RT, avoid light, valid for 1 year.

Kit Components

Reagent	2×50mL	2×100mL	Storage
Reagent(A): Saffron-O Staining Solution	50mL	100mL	RT, avoid light
Reagent(B): Fast Green Staining Solution	50mL	100mL	RT, avoid light

Introduction

Saffron-O is an alkaline dye which can show the lignified, corked and keratinized tissues of vascular plants. Fast Green is an acid dye, which is widely used in dyeing cells and plant tissues. The vessels can be stained with Saffron-O and the sieve tubes can be stained with Fast Green.

Saffron-O and Fast Green Stain Kit (For Plant) is suitable for dyeing roots, stems and leaves of higher plants.

Protocol(for reference only)

1. Fix the tissue in 4% paraformaldehyde solution and dehydrate routinely.
2. Dewax to water and then stain with Saffron-O Staining Solution for 1-2 h.
3. Wash with tap water to remove the excess dye.
4. Treat with 50%, 70% and 80% gradient alcohol for 1-2min.
5. Dye in Fast Green Staining Solution for 1 min.
6. Dehydrate in absolute ethanol twice.
7. Transparent with xylene and seal with resinene.

Result

Lignified cell wall and nucleus	Red
Parenchyma cell, cytoplasm	Green

Note

1. For small tissue samples (stem with diameter less than 1.5 mm or leaf with thickness less than 1 mm), negative pressure treatment is not necessary.
2. Saffron-O and Fast Green Stain is stable and can be used repeatedly for a long time.
3. For your safety and health, please wear lab clothes and disposable gloves.