

软骨染色液（番红 O 法）

货号：G2540

规格：100mL

保存：室温，避光保存，有效期 1 年。

产品介绍：

软骨组织由软骨细胞、软骨基质和纤维组成，软骨组织及其周围的软骨膜构成软骨。软骨根据基质内所含纤维素成分不同分为透明软骨、弹性软骨、纤维软骨。软骨染色方法有很多种，例如甲苯胺蓝法、阿利新蓝法、番红 O 法等。

番红 O 软骨染色法的染色原理在于嗜碱性的软骨与碱性染料番红 O 结合呈现红色，它常与固绿合用于显示软骨，是基于阳离子染料和粘多糖中阴离子集团的结合，嗜酸性的骨和酸性染料固绿结合而呈绿色或蓝色，与呈现红色的软骨对比鲜明，从而将软骨组织与骨组织区分开。

操作步骤：（仅供参考）

（可参照改良番红 O-固绿软骨染色液进行。）

1. 标本的处理：10%福尔马林固定、脱钙、石蜡切片。
2. 常规脱蜡至水。
3. 入软骨染色液（番红 O 法）内浸染 1-2min，蒸馏水洗 1min。
4. 分别用 95%乙醇、无水乙醇脱水。
5. 二甲苯透明，光学树脂封固。

染色结果：

软骨基质、细胞浆	红色
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注意事项：

1. 需要显示细胞核时，尽量采用铁苏木素染色，其着色力强、色调浓。
2. 切片在软骨染色液（番红 O 法）中染色不宜过长，否则易导致背景的深红色不易分化掉。
3. 软骨染色液（番红 O 法）染色后，不宜在低浓度乙醇脱水，否则易褪色。
4. 95%乙醇脱水时间不宜过长。
5. 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Safranine O Cartilage Stain Solution

Cat: G2540
Size: 100mL
Storage: RT, avoid light, valid for 1 year.

Introduction

Cartilage tissue is composed of chondrocytes, cartilage matrix and fibers, and cartilage tissue and its surrounding cartilage membrane constitute cartilage. Cartilage can be divided into hyaline cartilage, elastic cartilage and fibrocartilage according to the cellulose content in the matrix. There are many methods of cartilage staining, such as Toluidine Blue Method, Alcian Blue Method, Safranin O Method and so on.

The dyeing principle of Safranin O Cartilage Stain Solution is that the combination of basophil cartilage and basic dye safranin O is red. It is often used to display cartilage together with fast green. It is based on the combination of cationic dye and anionic group in mucopolysaccharide. The combination of eosinophilic bone and acid dye fast green is green or blue, which is in sharp contrast with the red cartilage, so as to distinguish cartilage tissue and bone group.

Protocols(for reference only)

(Can operate refer to the Modified Saffron-O and Fast Green Stain Kit).

1. Sample treatment: fixation in 10% formalin fixative, decalcification, make paraffin section.
2. Conventionally dewax to distilled water.
3. Soak in Safranin O Cartilage Stain Solution and stain for 1-2 min, then wash with distilled water for 1min.
4. Dehydrate in 95% ethanol and absolute ethanol respectively.
5. Transparent in xylene and seal with optical resin.

Result

Cartilage Matrix, Cytoplasm	Red
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Note

1. When it is necessary to display the nucleus, use iron hematoxylin as much as possible, it has strong coloring power and deep color.
2. The staining of sections in Safranin O Cartilage Stain Solution should not be too long, otherwise it is easy to cause that the dark red of the background is not easy to differentiate.
3. After Safranin O dyeing, it is not suitable to dehydrate in low concentration ethanol, otherwise it is easy to fade.
4. The dehydration time of 95% ethanol should not be too long.
5. For your safety and health, please wear experimental clothes and disposable gloves.