

## 石蜡切片实验报告

### 一、实验器材及试剂

#### 1. 实验器材

名称	厂家	型号
脱水机	武汉俊杰电子有限公司	JJ-12J
包埋机	武汉俊杰电子有限公司	JB-P5
病理切片机	上海徕卡仪器有限公司	RM2016
冻台	武汉俊杰电子有限公司	JB-L5
组织摊片机	浙江省金华市科迪仪器设备有限公司	KD-P
烤箱	上海慧泰仪器制造有限公司	DHG-9140A
粘附载玻片	陕西依科生物技术服务有限公司	YK116

#### 2. 主要实验试剂

试剂	厂家
无水乙醇	国药集团化学试剂有限公司
二甲苯	国药集团化学试剂有限公司
石蜡 56-58 度	徕卡 39601006

### 二、石蜡切片制作流程

- 取材:** 新鲜组织固定于 4%多聚甲醛 24h 以上。将组织从固定液取出在通风橱内用手术刀将目的部位组织修平整，将修切好的组织和对应的标签放于脱水盒内；
- 脱水:** 将脱水盒放进吊篮里于脱水机内依次梯度酒精进行脱水。75%酒精 1h-85%酒精 1h-95%酒精 1h-95%酒精 1h-无水乙醇 I 1h-无水乙醇 II 1h-二甲苯 I 1h-二甲苯 II 1h-58-60℃蜡 I 1h-58-60℃蜡 II 1h；
- 包埋:** 将浸好蜡的组织于包埋机内进行包埋。先将融化的蜡放入包埋框，待蜡凝固之前将组织从脱水盒内取出按照包埋面的要求放入包埋框，于-20° 冻台冷却，蜡凝固后将蜡块从包埋框中取出并修整蜡块。
- 切片:** 将修整好的蜡块，放入-20℃冻台冷却，再将冷却的蜡块置于石蜡切片机切片，厚 4 μm。切片漂浮于摊片机 40℃ 温水上将组织展平，载玻片将组织捞起，60℃ 烘箱内烤片。水烤干蜡烤化后取出常温保存备用。

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## Paraffin sides experiment report

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### 1. Experimental equipment and reagents

#### 1.1 Experimental equipment

Name	Manufacturer	Model
Dehydrator	Wuhan Junjie Electronics Co., Ltd	JJ-12J
Embedding machine	Wuhan Junjie Electronics Co., Ltd	JB-P5
Pathology slicer	Shanghai Leica Instrument Co., Ltd	RM2016
Frozen platform	Wuhan Junjie Electronics Co., Ltd	JB-L5
Tissue spreader	Zhejiang Jinhua Kdy Equipment Co., Ltd	KD-P
Oven	Shanghai Huitai Instrument Manufacturing Co., Ltd	DHG-9140A
Slides	Shaanxi Yike Biotechnology Service Co., Ltd	YK116

#### 1.2 Main experimental reagents

Reagent	Manufacturer	Article number
Xylene	Sinopharm Group Chemical Reagent Co. Ltd	10023418
Ethanol	Sinopharm Group Chemical Reagent Co. Ltd	100092683

### 2. Paraffin section making

**2.1 draw materials:** The fresh tissue was fixed with fixed liquid for more than 24 hours. Remove the tissue from the fixed liquid and trim the target tissue with a scalpel in the ventilation cupboard, and put the trimmed tissue and the label in the dehydration box.

**2.2 Dehydration and wax leaching:** put the dehydration box into the dehydrator in order to dehydrate with gradient alcohol. 75% alcohol 2 hours, 85% alcohol 1 hours, 90% alcohol 1 hours, 95% alcohol 1 hour, anhydrous ethanol II h, anhydrous ethanol II 1h, xylene I 1 h, xylene II 1 h, 56-58°C melting paraffin I 1h, 56-58°C melting paraffin II 1h, 56-58°C melting paraffin III 1 hour.

**2.3 embedding:** The wax-soaked tissue is embedded in the embedding machine. First, put the melted wax into the embedding frame, and before the wax solidifies, remove the tissue from the

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dewatering box and put it into the embedding frame according to the requirements of the embedding surface and affix the corresponding label. Cool at -20 °C freezing table, and after the wax is solidified, the wax block is removed from the embedded frame and repaired.

**2.4 cut into slices:** Place the trimmed wax block cool at -20 °C freezing table, slice the modified tissue chip wax block on the paraffin slicer, the slice thickness is 4 μm. The tissue is flattened when the slice floats on the 40 °C warm water of the spreading machine, and the tissue is picked up by the glass slides and baked in the oven at 60 °C. After the water-baked dried wax is melted, it is taken out and stored at room temperature.