



石蜡切片制作实验报告

一、实验器材及试剂

1、实验器材

名称	厂家	型号
脱水机	DIAPATH	Donatello
包埋机	武汉俊杰电子有限公司	JB-P5
冻台	武汉俊杰电子有限公司	JB-L5
病理切片机	上海徕卡仪器有限公司	RM2016
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	天津市莱玻瑞仪器设备有限公司	GFL-230
防脱载玻片	Servicebio	

2、主要实验试剂

试剂	厂家	货号
二甲苯	国药集团化学试剂有限公司	10023418
无水乙醇	国药集团化学试剂有限公司	100092683

二、石蜡切片制作

1、取材：新鲜组织用固定液固定 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。

2、脱水浸蜡：将脱水盒放进脱水机内依次梯度酒精进行脱水。75%酒精 4h，85%酒精 2h，90%酒精 2h，95%酒精 1h，无水乙醇 I 30min，无水乙醇 II 30min，醇苯 5-10min，二甲苯 I 5-10min，二甲苯 II 5-10min，65°融化石蜡 I 1h，65°融化石蜡 II 1h，65°融化石蜡 III 1h。

3、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并贴上对应的标签。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。

4、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 4μm。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。



Paraffin Sides Experiment Report

1. Experimental Equipment and Reagents

1.1 Experimental equipment

Name	Manufactor	Model
Dehydrator	DIAPATH	Donatello
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 Kehua Instrument Co., Ltd	KD-P
Oven	Tianjin Laibo Rui Instrument Equipment Co., Ltd	GFL-230
Slides	Servicebio	

1.2 Main experimental reagents

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

2. Paraffin section making

2.1 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 4 hours, 85% alcohol 2 hours, 90% alcohol 2 hours, 95% alcohol 1 hour, anhydrous ethanol I 30 min, anhydrous ethanol II 30 min, alcohol benzene 5~10 min, xylene II 5~10 min, 65°C melting paraffin I 1h, 65 °C melting paraffin II 1h, 65°C melting paraffin III 1 hour.

2.3 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 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.



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2.4 Place the trimmed wax block cool at 20° freezing table, slice the modified tissue chip wax block on the paraffin slicer, the slice thickness is 4μm. 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.