HE 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
脱水机	常州市中威电子仪器有限公司	TSJ-SD
包埋机	常州市中威电子仪器有限公司	BMJ-A
病理切片机	赛默飞世尔科技有限公司	SHANDON FINESSE 325
冻台	武汉俊杰电子有限公司	JB-L5
组织摊片机	常州市中威电子仪器有限公司	PHY-III
防脱载玻片	湖北百奥斯生物科技有限公司	BP0510
正置显微镜	奥林巴斯有限公司	CX-31
成像系统	日本滨松光子学株式会社	NanoZoomer®S360

2、主要试剂及货号

名称	厂家	型号
无水乙醇	国药集团化学试剂有限公司	100092683
环保透明剂	同声科技	
环保封片剂	同声科技	
苏木素-伊红染液	湖北百奥斯生物科技有限公司	BP0211

二、实验步骤

1、石蜡切片脱蜡至水：依次于环保脱蜡剂(1)、环保脱蜡剂(2)、环保脱蜡剂(3)中分别脱蜡 10 分钟，然后经无水乙醇、95%乙醇、85%乙醇、75%乙醇各 5 分钟。自来水冲洗 1 分钟。

2、苏木素染色液（Harris）染色 4 分钟，自来水洗 2 分钟，至切片上无多余染液脱出。

3、用 0.8%盐酸酒精分化 2 秒，自来水冲洗，亦可用碳酸锂水溶液返蓝，然后水

洗 2 分钟。

4、入伊红染液（醇溶性）染 20 秒，不需水洗，直接入 95%乙醇调色 5 秒，入无水乙醇(1)、无水乙醇(2)脱水 2 分钟。

5、环保透明剂透明、封固、镜检。

三、结果判读

细胞核呈蓝紫色，细胞质、间质、各种纤维类呈不同程度的红色。

四、注意事项

1、石蜡切片应充分脱蜡。

2、注意细胞核的分化程度，如果着色太深，可以再次分化。

3、注意苏木素和伊红的使用程度，及时更换染液。

Experimental Report on H&E Staining

1. Instruments and key reagents

1.1 Instruments

Instrument	Manufacture	Specifications/Model
Tissue processor	Changzhou Zhongwei Electronics Co., Ltd	TSJ-SD
Tissue embedder	Changzhou Zhongwei Electronics Co., Ltd	BMJ-A
Microtome	ThermoFisher Scientific	SHANDON FINESSE 325
Freezing table	Wuhan Junjie Electronics Co., Ltd	JB-L5
Water bath - Slide drier	Changzhou Zhongwei Electronics Co., Ltd	PHY-III
Slide	Hubei BIOSSCI Biotech Co., Ltd	BP0510
Upright microscope	Olympus	CX-31
Digital scanner	HAMAMATSU PHOTONICS	NanoZoomer®S360

1.2 Key reagents

Reagent	Manufacture	Specifications/Model
Ethanol	Sinopharm	100092683
Clearer	Wuhan Tongsheng Technology Development Co., Ltd	
Neutral balsam	Wuhan Tongsheng Technology Development Co., Ltd	
H&E staining kit	Hubei BIOSSCI Biotech Co., Ltd	BP0211

2. Procedures

2.1 Deparaffinization and rehydration.

2.1.1 Tissue sections were immersed in clearer for 10min. Repeat this step two times, gently shaking off excess liquid between each step.

2.1.2 Tissue sections were immersed in progressively more dilute ethanol solutions and ultimately immersed in distilled water to rehydrate the tissue: Absolute ethanol for 5min, 95% ethanol for 5min, 85% ethanol for 5min, 75% ethanol for 5min. Rinsing with distilled water for 1min.

2.2 Sections were stained with hematoxylin solution (Harris) for 4 minutes and then washed with tap water for 2 minutes until no excess dye comes out of the sections.

2.3 Sections were differentiated with 0.8% hydrochloric acid alcohol for 2 seconds and washed with tap water. Sections can also be treated with lithium carbonate solution to be bluer and washed with tap water for 2 minutes.

2.4 Sections were stained with eosin solution (alcohol soluble) for 20 seconds without water washing. Then, sections were treated with 95% ethanol for 5 minutes and dehydrated with absolute ethanol I and II for 2 minutes.

2.5 The tissue sections were transparent with xylene and then mounted with neutral balsam. Examination with microscope.

3. Results

The nucleus is blue and the cytoplasm is pink to red.

4. Attentions

4.1 It is important that paraffin sections need to be fully dewaxed.

4.2 If nuclei are too dark, it can be differentiated again.

5. Technical support

The technical support of H&E staining experiment is provided by Hubei BIOSSCI Biotech Co., Ltd (Wuhan Changyan Pathology technology Co., Ltd).

Tel: 400 118 0100

Fax: +86-027-87382710

E-mail: support@biossci.com

Website: www.biossci.com