



阿利新蓝染色实验报告

一、实验器材及试剂

1、实验器材

名称	厂家	型号
脱水机	DIAPATH	DONATELLO
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	天津市莱玻瑞仪器设备有限公司	GFL-230
载玻片	Servicebio	G6004
正置光学显微镜	日本尼康	NIKON ECLIPSE E100
成像系统	日本尼康	NIKON DS-U3

2、主要实验试剂

试剂名称	厂家	货号
无水乙醇	国药集团化学试剂有限公司	100092683
二甲苯	国药集团化学试剂有限公司	10023418
阿利新蓝染液套装	Servicebio	G1027
中性树胶	国药集团化学试剂有限公司	10004160

二、实验步骤

- 1、石蜡切片脱蜡至水：依次将切片放入二甲苯I 20min，二甲苯II 20min，无水乙醇I 5min，无水乙醇II 5min，75%酒精 5min，自来水洗。
- 2、阿利新蓝染色：切片入阿利新蓝染液 A 中染色 10-15min，自来水洗。
- 3、染核：阿利新蓝染色液 B 浸染 3min，自来水洗。
- 4、脱水封片：切片依次放入无水乙醇 I 5min，无水乙醇 II 5min，无水乙醇 III 5min，二甲苯 I 5min，二甲苯 II 5min 透明，中性树胶封片。
- 5、显微镜镜检，图像采集分析。



三、结果判读

- 1、软骨、酸性粘液物质呈蓝色，细胞核呈红色。



Alcian Blue Staining Experimental 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	
Orthostatic microscope	NIKON, JAPAN	NIKON ECLIPSE E100
Image system	NIKON, JAPAN	NIKON DS-U3

1.2 Main experimental reagents

Reagent name	Manufactor	Article number
Ethanol	Sinopharm Group Chemical Reagent Co. LtD	100092683
Xylene	Sinopharm Group Chemical Reagent Co. LtD	10023418
Alcian blue dye	Servicebio	G1027
Neutral resin	Sinopharm Group Chemical Reagent Co. LtD	10004160

2. Experimental Steps

2.1 Paraffin slides dewaxed as follow: Two changes of pure xylene for 20 min,two changes of pure ethanol for 5min; 75 % ethanol for 5 min; keep slides in tap water.

2.2 The slides stained in Alcian blue dye solution A for 10~15 min, and then washed in running water.

2.3 The slides stained in Alcian blue dye solution B for 3 min, and then washed in running water.

2.4 Three changes of pure ethanol for 5min, Two changes of pure xylene for 5 min transparent



and then coverslip with neutral resin.

2.5 Observed under microscope and took images.

3. The results were as follows

3.1 The cartilage and acid mucus were blue, and the nucleus was red.