VG 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	Wanwu	
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
VG 染液套装	Wanwu	G1046
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I20min-二甲苯II20min-无水乙醇I5min-无水乙醇II5min-75%酒精 5min，自来水洗。

2、VG 染色：Van Gieson（VG）染液 B 9ml 加入 Van Gieson（VG）染液 A 1ml（配制后可反复使用多次）混合成 VG 染液（按比例配制用多少配多少），染 1min，快速水洗，无水乙醇三缸快速脱水。

3、切片放入二甲苯透明，中性树胶封片。~~透明封片：两缸干净的二甲苯透明各 20s、5min（二甲苯专用不与其他二甲苯共用），中性树胶湿封。~~

4、显微镜镜检，图像采集分析。

三、结果判读：

胶原纤维呈红色，其他组织成分呈黄色。

四、注意事项：

1.~~1、~~水洗要快，防止红色褪掉，无水乙醇也要快脱，防止黄色变暗。

VG staining experimental report ~~STAINING 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	Wanwu	
Orthostatic microscope	NIKON, JAPAN	NIKON ECLIPSE E100
Image system	NIKON, JAPAN	NIKON DS-U3

~~1. Experimental equipment and reagents~~

~~experiment equipment~~

~~name~~	~~factory~~	~~model~~
~~Dehydrator~~	~~DIAPATH~~	~~Donatello~~
~~Embedding machine~~	~~Wuhan Junjie Electronics Co., Ltd.~~	~~JB-P5~~
~~Pathology slicer~~	~~Shanghai Leica Instruments Co., Ltd.~~	~~RM2016~~
~~Frozen platform~~	~~Wuhan Junjie Electronics Co., Ltd.~~	~~JB-L5~~
~~Organizer~~	~~Jinhua City, Zhejiang Province Cody Instrument Equipment Co., Ltd.~~	~~KD-P~~
~~oven~~	~~Tianjin Lai Bo Rui Instrument Equipment Co., Ltd.~~	~~GFL-230~~
~~Glass slide~~	~~Wanwu~~	
~~UPRIGHT OPTICAL MICROSCOPE~~	~~NIKON JAPAN~~	~~NIKON ECLIPSE E100~~

IMAGING SYSTEM	NIKON JAPAN	NIKON DS-U3

1.2 Main experimental reagents

Main experimental reagents

Reagent name	Manufactor	Article number
Absolute ethanol	Sinopharm Group Chemical Reagent Co., Ltd.	100092683
Xylene	Sinopharm Group Chemical Reagent Co., Ltd.	10023418
VG staining	Wanwu	G1046
Neutral gum	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 5min; Keep sildes in tap water.

2.2 VG dyeing: Add 9ml of Van Gieson (VG) dye solution B to 1ml of Van Gieson (VG) dye solution A (can be used repeatedly after preparation) and mix into VG dye solution (prepared in proportion to use as much as possible), dye for 1 minute, fast Washed with water, dehydrated quickly in anhydrous ethanol triplex.

2.3 The slides were immersed in xylene to transparent and then coverslip with neutral resin.

2.4 Observed under microscope and took images.

3. The results were as follows

Collagen fibers was red , and other tissue components was yellow.

4 Precautions

1. It should be washed quickly to prevent the red from fading , and the absolute ethanol should also be taken off quickly to prevent the yellow from darkening.