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TS Procure 812 - H&E stained section under glass coverslip on glass slide (TM - 013)

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sandra.crameri¹

¹CSIRO ACDP



sandra.crameri

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Protocol status: Working

We use this protocol and it's working



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Abstract

The method is used to process H&E stained slides through to Procure 812 resin blocks.

Guidelines

Sample is not optimal for EM, best to dissect and use only the outer 2mm of tissue mass. Sample is usually derived from histology.

Protocol materials



xylene



25% Glutaraldehyde



Osmium Tetroxide **ProSciTech**



Ethanol



Propylene oxide **ProSciTech Catalog #C156**



Propylene oxide **ProSciTech Catalog #C156**



Propylene oxide **ProSciTech Catalog #C156**



Procure 812 mix **ProSciTech**



HEADER

1 SAN:

SPEC No:

OPERATOR & STEPS:

OPERATOR & STEPS:

Prepare slide

2 Using diamond pen etch a circle on the back of the slide to indicate where the BEEM capsule should be placed during embedding.

Remove Coverslip

3 Remove coverslip by soaking in  xylene minimum  Overnight , check to see if coverslip has slide off, if not soak another  Overnight .

Rehydration

4  100 % volume  Ethanol  00:05:00 5m

5  95 % volume  Ethanol  00:05:00 5m

6  70 % volume  Ethanol  00:05:00 5m



Conventional

5h 15m

- 7 [IM] 2.5 % volume 25% Glutaraldehyde in [IM] 0.1 Mass Percent Sorenson's Phosphate buffer (pH 7.2, 300mosmol/kg) for at least 00:05:00 5m
- 8 [IM] 0.1 Mass Percent buffer 00:05:00 5m
- 9 [IM] 1 % volume Osmium Tetroxide **ProSciTech** in buffer 00:30:00 30m
- 10 [IM] 70 % volume Ethanol for at least 00:05:00 or overnight 5m
- 11 [IM] 95 % volume Ethanol 00:05:00 5m
- 12 [IM] 100 % volume Ethanol 00:05:00 5m
- 13 [IM] 100 % volume Ethanol dried with molecular sieve 00:05:00 5m
- 14 [IM] 50 % volume Ethanol [IM] 50 % volume Propylene oxide **ProSciTech Catalog #C156** 00:10:00 10m
- 15 [IM] 100 % volume Propylene oxide **ProSciTech Catalog #C156** 00:10:00 10m
- 16 [IM] 50 % volume Propylene oxide **ProSciTech Catalog #C156** 20m
[IM] 50 % volume Procure 812 mix **ProSciTech** 00:20:00
- 17 [IM] 100 % volume Procure 812 mix **ProSciTech** 00:20:00 20m



18 [M] 100 % volume  Procure 812 mix ProSciTech  01:00:00 1h

19 Embed & polymerise overnight in oven at  60 °C

To remove the block from the glass slide 9m

20 Place slide into boiling water on hot plate setting 3 for  00:09:00 .Remove from water, gloves on, use tissues to hold slide down, angle single edged razor blade at 45o underneath tap washer to make a start to removal , then manually break BEEM capsule off slide. 9m