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Version 2

TS Procure 812 - primary fixation formalin/wet tissue (TM - 013) V.2

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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

Created: May 08, 2023



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Protocol Integer ID: 81613

Keywords: Procure 812, formalin, epon, primary fixation formalin, fixed histological tissue, tissues to procure, histological tissues to procure, procure 812 resin block, ts procure, tissue, wet tissue, resin block, resin, primary fixation, tm

Abstract

The method is used to process formalin fixed histological tissues 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

⊗ 25% Glutaraldehyde

⊗ Osmium Tetroxide **ProSciTech**

⊗ Ethanol

⊗ Propylene oxide **ProSciTech Catalog #C156**

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⊗ Propylene oxide **ProSciTech Catalog #C156**



HEADER

1 SAN:

SPEC No:

OPERATOR & STEPS:

OPERATOR & STEPS:

Primary fixation

2 Formalin for undefined extended period of time at Room temperature

Conventional

5h 15m

3 2.5 % volume 25% Glutaraldehyde in 0.1 Molarity (M) Sorenson's Phosphate buffer (pH 7.2, 300mosmol/kg) for at least 00:40:00 or overnight

40m

4 0.1 Molarity (M) buffer 00:15:00

15m

5 1 % volume Osmium Tetroxide **ProSciTech** in buffer 01:00:00

1h

6 70 % volume Ethanol for at least 00:20:00 or overnight

20m



- 7 [M] 95 % volume Ethanol 00:20:00 20m
- 8 [M] 100 % volume Ethanol 00:20:00 20m
- 9 [M] 100 % volume Ethanol dried with molecular sieve 00:20:00 20m
- 10 [M] 50 % volume Ethanol [M] 50 % volume Propylene oxide **ProSciTech Catalog #C156** 00:20:00 20m
- 11 [M] 100 % volume Propylene oxide **ProSciTech Catalog #C156** 00:20:00 20m
- 12 [M] 50 % volume Propylene oxide **ProSciTech Catalog #C156**
[M] 50 % volume Procure 812
- 13 [M] 100 % volume Procure 812 00:20:00 20m
- 14 [M] 100 % volume Procure 812 01:00:00 1h
- 15 Embed & polymerise overnight in oven at 60 °C