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TS Spurrs - primary fixation Karnovsky's - tissue (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

Created: May 09, 2023



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Keywords: conventional processing of tissue, ts spurr, spurr, conventional processing, tissue, resin, primary fixation, tm, processing

Abstract

This method is used for conventional processing of tissue to Spurr's resin.

Guidelines

All time are minimum times, it is acceptable to go over time specified for any given step. Good place steps to leave overnight or at 70% ethanol and 50/50 Spurrs/Ethanol mix.

Protocol materials

⊗ 25% Glutaraldehyde

⊗ 16% Paraformaldehyde **ProSciTech Catalog #C004**

⊗ Osmium Tetroxide **ProSciTech**

⊗ Ethanol

⊗ Spurr's resin mix **ProSciTech**



HEADER

1 SAN:

SPEC No:

OPERATOR & STEPS:

OPERATOR & STEPS:

CONVENTIONAL

5h 15m

- 2 [M] 2.5 % volume  25% Glutaraldehyde plus [M] 4 % volume  16% Paraformaldehyde **ProSciTech Catalog #C004** in [M] 0.1 Molarity (M) for at least  00:40:00 40m
- 3 Wash [M] 0.1 Mass Percent Sorenson's Phosphate Buffer  07.2 (300mosmol/kg) for  00:15:00 15m
- 4 [M] 1 % volume  Osmium Tetroxide **ProSciTech** in buffer for  01:00:00 1h
- 5 [M] 70 % volume  Ethanol for at least  00:20:00 20m
- 6 [M] 95 % volume  Ethanol for  00:20:00 20m
- 7 [M] 100 % volume  Ethanol for  00:20:00 20m
- 8 [M] 100 % volume  Ethanol dried molecular sieved for  00:20:00 20m



- 9 [M] 50 % volume Ethanol [M] 50 % volume Spurrs resin mix **ProSciTech** 30m
for 00:30:00
- 10 [M] 100 % volume Spurrs resin mix **ProSciTech** 00:30:00 30m
- 11 [M] 100 % volume Spurrs resin mix **ProSciTech** 01:00:00 1h
- 12 Oven polymerise overnight at 65 °C