



May 07, 2023

Version 1

TS Spurrs - cell pellet (TM - 013, sections 5.3 & 6.6) V.1

DOI

<https://dx.doi.org/10.17504/protocols.io.81wgb6jpolpk/v1>

sandra.crameri¹

¹CSIRO ACDP



sandra.crameri

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Protocol status: Working

We use this protocol and it's working

Created: August 02, 2022



Last Modified: May 07, 2023

Protocol Integer ID: 68033

Keywords: conventional processing of cell pellet, spurrs resin, cell pellet, ts spurr, conventional processing, tm, resin

Abstract

This method is used for conventional processing of cell pellets to Spurrs 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

⊗ Osmium Tetroxide **ProSciTech**

⊗ Ethanol

⊗ Spurrs resin mix **ProSciTech**



HEADER

1 SAN:

SPEC No:

OPERATOR & STEPS:

OPERATOR & STEPS:

CONVENTIONAL

5h 15m

- | | | | | | |
|---|------------------|-------------------------------|-----------------------------|-------------------------------|-----|
| 2 | [M] 2.5 % volume | ⊗ 25% Glutaraldehyde | for at least | 🕒 00:40:00 | 40m |
| 3 | Wash | [M] 0.1 Mass Percent | Sorenson's Phosphate Buffer | 📏 pH 07.2 (300mosmol/kg) | 15m |
| | for | 🕒 00:15:00 | | | |
| 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