

## **TEM FIXATION PROTOCOLS:**

### **Chemicals needed**

**Post-Fixative:**

**1% Osmium Tetroxide:**

- 0.1g OsO<sub>4</sub> Crystals
- 10 mL DH<sub>2</sub>O
- or
- 2 mL 4% OsO<sub>4</sub>
- 4 mL Sorensen's Buffer
- 2 mL DH<sub>2</sub>O (can substitute buffer if desired)

**Dehydration Series:**

**Ethanol:** 10%, 30%, 50%, 70%, 90%, 100%, 100% in Zeolite beads (molecular sieve)

**Acetone:** 10%, 30%, 50%, 70%, 90%, 100%, 100% in Zeolite beads (molecular sieve)

**Protocol (derivations exist depending on your sample):**

1. Under a hood and while wearing gloves, place fixative of choice

9. Prepare the embedding resin according to manufacturer instructions. Make small aliquots of the following ratios:

Spurr's:

1. Spurr's/acetone: 25/75

2. Spurr's/acetone: 50/50

3. Spurr's/acetone: 75/25

4. Spurr's – 100%

London Resin:

LR/ethanol: 25/75

LR/ethanol: 50/50

LR/ethanol: 75/25

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