**Fixing Samples for TEM Imaging**

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**Prepare TEM fixative:**

1. Wearing nitrile gloves, filter 3X PBS solution through 0.02 um filter.
   1. You will need enough for approximately 1.5 mLs fixative per sample but you should make a few extra mLs. For example, if you have 100 samples, make 155mLs of TEM fixative.
2. Add EM grade glutaraldehyde to 3X PBS so that glutaraldehyde is in 2% solution.
   1. If you have 25% glutaradehyde ampules, and you are making 155mLs of TEM fixative, then (XmLs) (25% glutaraldehyde) = (155mLs) (2%). Therefore, add X = 12.4 mLs 25% glutaraldehyde to 142.6 mLs 3X PBS for 100 samples.
3. Close 50 mL falcon tubes containing TEM fixative, wrap in aluminum foil, and invert gently to mix. Store at 4C. Dispose of nitrile gloves

**Fixing samples for TEM imaging:**

1. Clean bench top with alcohol and bleach solutions.
2. Put on a clean pair of nitrile gloves
3. Lay down Kim Wipe over cleaned area
4. Using sterile razor blade, cut very small fragment (1-5 mm3) from sample and place in sterile screw top tube
5. Cover with 1.5 mL TEM fixative
6. Change gloves, kim wipe and razor blade between samples
7. Wrap box containing samples in aluminum foil and store at 4C