

Clean slides using the following procedure:

- Add 1% Hellmanex by volume and microwave to a boil
- Sonicate for 5 minutes
- Rinse thoroughly
- Soak in Ethanol for 10 minutes
- Rinse thoroughly
- Soak in 100mM KOH for 10 minutes
- Rinse thoroughly

Making Poly-Acrylamide coated glass slides

I Step Coat the Glass Slides with a silane group that will bond to the glass surface and to the acrylamide.

Silane Solution:

100mL Ethanol
1mL Acetic Acid
0.5 mL trimethoxysilyl-propylmethacrylate (located in fridge)

II Immerse slides that have been cleaned in the Silane Solution.

III Make an acrylamide solution of approximately 2% (20mg/mL) in water. There should be a stock solution of 20% (200mg/mL) acrylamide in water.

IV Degas(place in a vacuum) the 2% solution for ~10min

V Rinse the Silane solution from the slide containers and let dry (*Mine aren't usually super dry and it seems to work well every time, as far as things not sticking to the surface*)

VI Polymerize Acrylamide:

Add to 100mL (Acrylamide), 35uL of Temed and 70mg of APS (Ammonium Persulfate)

Let the APS dissolve first while stirring then add Temed.

VII Within 20 sec immerse slides, they should be ready to use in a~3 hours