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Working

PMMA Spin-coating

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ABSTRACT

This protocol details how to spin coat a thin layer of PMMA on a glass cover slip.

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

GUIDELINES

Lab coat and gloves must be worn at all times.

MATERIALS TEXT

Materials:

- 70% ethanol
- Delicate task wipes (Kimwipes®)
- 100 µL pipette and tips
- Tweezers
- Hot plate
- Glass cover slip
- Spin Coater



Reagents:

- Poly(methyl methacrylate) [PMMA] solution

Prepare surface

- 1 Wipe cover slip with 70% ethanol using a delicate task wipe.

Spin-coat

- 2 Place cover slip into spin coater, centering with the square in the spin coater.
- 3 Dispense  30 µL PMMA solution onto the center of the cover slip.
- 4 Spin for  00:00:30 at 2000 rpm.



This step can be varied, where higher angular velocities will form thinner coatings.

Bake substrate

- 5 Carefully remove cover slip from spin coater using tweezers.
- 6 Place cover slip onto 🔥 180 °C hot plate for ⌚ 00:01:00 .



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