VERSION 1
OCT 22, 2019

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.8kthuwn

Protocol Citation: Francesca Farris, Marda Jorgensen 2019. Poly-Lysine Coverslip Preparation. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.8kthuwn>

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Protocol status: Working
We use this protocol and it's working

Created: Oct 22, 2019

Last Modified: Oct 22, 2019

PROTOCOL integer ID:
29043

🌐 Poly-Lysine Coverslip Preparation V.1

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ABSTRACT

Poly-Lysine Coverslip Preparation

This section describes the process of creating Poly-lysine-coated coverslips that are used for the tissue slices in the CODEX® experiment workflow.

GUIDELINES

After incubation, coverslips can be stored for up to 2 months at room temperature. To prevent removal of poly-lysine, do not soak in water for >1 minute during each washing step.

MATERIALS

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⊗ Poly-L-lysine, 0.1% (wt/vol) **Sigma Aldrich Catalog #P8920**

1 Remove the coverslips from box.

- 2 Gently place coverslips at the bottom of the glass beaker
- 3 Slowly swirl the beaker to spread the stacks of coverslips.
- 4 Add ca. 7 mL of poly-lysine solution above the coverslips to ensure that all coverslips are fully covered.
- 5 Cover the beaker with plastic wrap and seal with a rubber band to prevent evaporation.
- 6 Leave coverslips in poly-lysine solution for a minimum of 12 hours and up to one week at room temperature.
- 7 After incubation period, the washing and storing coverslips steps begin.
- 8 Gradually pour poly-lysine solution into the proper waste container.
- 9 Fill the beaker containing the coverslips to half volume with ddH₂O

- 10** Swirl the contents to mix the solution.
- 11** Let the beaker and coverslips sit for 30 seconds.
- 12** Slowly pour off the water into the sink
- 13** Repeat steps 9-12 more times for a total of 7 washes.
- 14** Place two sets of paper towels on the bench top.
- 15** Remove the coverslips from the water, placing them on top of the first set of lint free paper towels. Ensure coverslips are not overlapping to allow proper drying.
- 16** Invert each coverslip. Dry the reverse side on the second set of paper towels.
- 17** Leave the coverslips on the paper towels to dry.
- 18** When they are dry, the Poly-lysine-coated coverslips can be stored in a petri dish or covered similar container.