

Jan 03, 2020

Version 3



DOI

dx.doi.org/10.17504/protocols.io.baxyifpw



Leigh Propper¹, Franchesca Farris¹, Marda Jorgensen¹

¹University of Florida

Human BioMolecular Atlas Program (HuBMAP) Method Development Community Tech. support email: Jeff.spraggins@vanderbilt.edu



Marda Jorgensen

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Protocol Citation: Leigh Propper, Franchesca Farris, Marda Jorgensen 2020. CODEX - Poly-I-Lysine Cover-Slip Preparation. **protocols.io** https://dx.doi.org/10.17504/protocols.io.baxyifpw



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Protocol status: Working

We use this protocol and it's working

Created: January 03, 2020

Last Modified: October 02, 2020

Protocol Integer ID: 31448

Keywords: CODEX, HuBMAP, poly-lysine, coverslips, histology, staining, prep, lysine coverslip preparation, lysine coated coverslip, lysine cover, slip preparation poly, coated coverslip, codex, mounting tissue section, tissue section, lysine, poly

Abstract

Poly-Lysine Coverslip Preparation

This protocol describes the process of creating Poly-lysine-coated coverslips that are required for mounting tissue sections for the CODEX® experiment workflow.

Guidelines

- Managers and supervisors are responsible for making sure that technicians are properly trained and equipment and facility are maintained in good working order.
- Laboratory personnel are responsible for reading and understanding this SOP and related documents and to perform these tasks in accordance with the SOPs.

Materials

MATERIALS

- WypAll™ L30 Multipurpose Wipers Thermo Fisher Catalog #19168203
- 🔀 Parafilm Wrap PM996, 4 in. Wide, 125 ft./Roll Thermo Fisher Catalog #CP0672040
- **⊠** EMS Glass Cover Slips 22mm x 22mm **Electron Microscopy Sciences Catalog #**72204-01
- Poly-L-lysine 0.1% (w / v) Merck MilliporeSigma (Sigma-Aldrich) Catalog #P8920

Troubleshooting



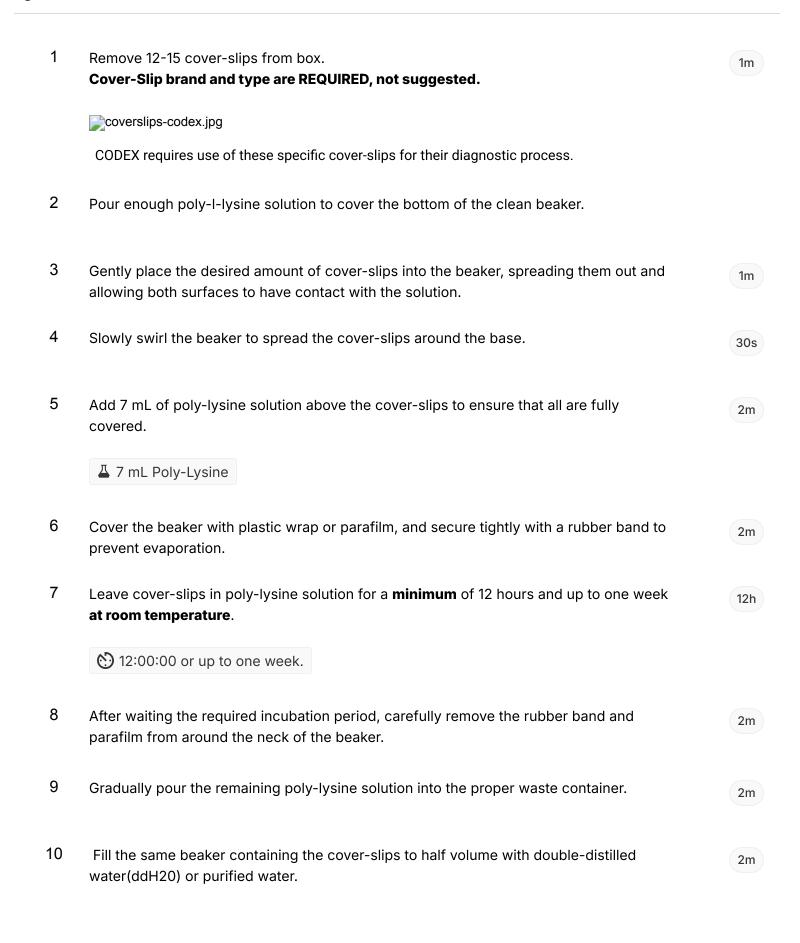
Safety warnings



Use physical safety precautions when working with sharps (disposable blades, coverslips, etc).

Before start

- Wear gloves when handling cover slips to avoid depositing epithelial cells or residues on surfaces.
- You will need a sanitized or acid-washed beaker for this procedure.





11	Swirl the contents to mix the solution.	1m
12	Let the beaker and cover-slips sit for 30 seconds. To prevent removal of poly-lysine, do not soak in water for >1 minute during each	30s
	washing step.	
13	Slowly pour off the water into the sink. This completes Wash #1	30s
14	go to step #10 and repeat steps 9-12 (Wash #2)	1m 30s
15	≣) go to step #10 and repeat steps 9-12 (Wash #3)	1m 30s
16	≣) go to step #10 and repeat steps 9-12 (Wash #4)	1m 30s
17	≣) go to step #10 and repeat steps 9-12 (Wash #5)	1m 30s
18	≣) go to step #10 and repeat steps 9-12 (Wash #6)	1m 30s
19	go to step #10 and repeat steps 9-12 (Wash #7)	1m 30s
20	After completing the 7 washes, place 2 lint-free Wypall towels on the bench top.	30s
21	Remove the cover-slips from the water, placing them on top of the first set of towels. Ensure the cover-slips are not overlapping to allow proper drying.	2m
22	Using the specialty forceps indicated for use by CODEX, flip over each cover-slip onto the second clean towel to dry the reverse side.	20m



codexforceps.png

Specialty forceps indicated in the materials section.

23 Leave the cover-slips on the Wypall towel to dry.

1d

24 When the cover-slips are dry, the Poly-Lysine-coated cover-slips can be stored in a sterile petri dish or similarly covered container for up to 2 (two) months.

30m

polyllysineslipsdish.jpg

Sterile Petri Dish containing the finished Poly-I-Lysine coated cover-slips for CODEX processing.