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FFPE Tissue Sectioning for CODEX

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1 Works for me dx.doi.org/10.17504/protocols.io.8mfhu3n

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ABSTRACT

FFPE tissues for CODEX® analysis must adhere directly onto Poly-lysine-coated coverslips. Preparation and storage of tissue slices are critical for sample integrity.

- 1 Prepare a water bath at 40°C and place it next to the Microtome.
- 2 Prepare a clean, dry surface for laying the coverslips next to the Microtome.
- 3 Use an aerosol spray to clean coverslips from dust and lint prior to use.
- 4 Insert a new blade for sectioning each block
- 5 Section the tissue between 5-10 µm thick.
- 6 Place the sectioned tissue in the water bath for a few seconds and observe it expanding.
- 7 When the observed expansion is enough to remove folds and wrinkles from the tissue, using the forceps, quickly place a Poly-lysine-coated coverslip in the water bath and gently move it upward towards the tissue. Doing so, the tissue will lay on the coverslip as this is moved out from the water bath.
- 8 Put the coverslip on a clean surface with the tissue facing up and let it air-dry overnight.
- 9 Repeat steps 6-8 for each slice of tissue.
- 10 When the tissues are dry, place each tissue coverslip in an individual slot of the storage box and cover the storage box with the lid. The box of tissue slices can be kept at 4°C for up to 6 months.



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