



JAN 06, 2023

OPEN ACCESS

Protocol Citation: Santhosh Sivajothi 2023. Tissue Sectioning Guidelines - CODEX/PhenoCycler.

protocols.io
<https://protocols.io/view/tissue-sectioning-guidelines-codex-phenocycler-cmb7u2rn>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

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

Created: Jan 05, 2023

Last Modified: Jan 06, 2023

PROTOCOL integer ID:
 74847

Keywords: CODEX, CODEX slide prep, tissue sectioning CODEX

Tissue Sectioning Guidelines - CODEX/PhenoCycler

Santhosh Sivajothi¹

¹The Jackson Laboratory

JAX Single Cell Biology
 Tech. support email: scblservice@jax.org



Santhosh Sivajothi

ABSTRACT

The purpose of this SOP is to provide general guidelines for preparing tissue sections suitable for PhenoCycler/CODEX

MATERIALS

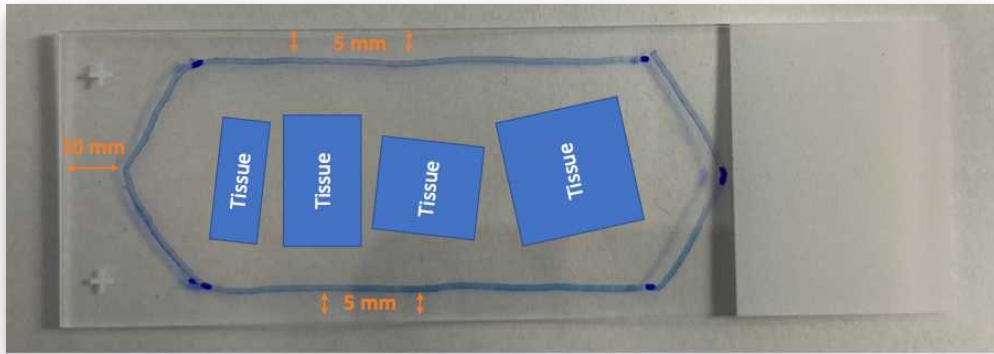
Standard 1" x 3" positively charged glass microscopy slides (example, SuperFrost Plus)

- 1 Cut FFPE sections on a microtome at a thickness of 5 microns. Section thickness should not exceed 10 microns.

Tissue Sectioning Guidelines for CODEX/PhenoCycler

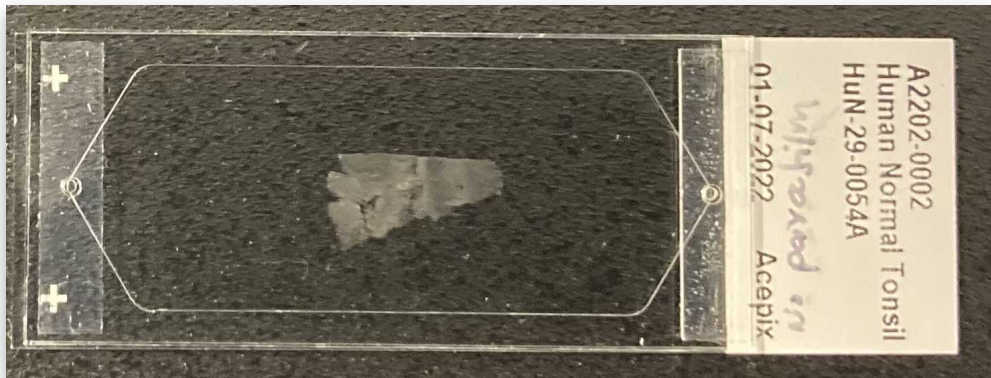
- 2 For best results, the tissue should be completely adhered to the slide with minimal tears or folds.

- 3 Place tissue section or sections within the boundary indicated on the slide below. If tissue overlaps the boundary, proper flowcell seal (coverslip) will not be formed
- 4 Multiple tissues can be placed within the boundary, as long as there is no overlap of paraffin over adjacent tissues



Slide showing dimensions of the area inaccessible due to coverslip placement.

- 5 Example of good tissue placement:




Slide with CODEX coverslip showing optimal placement of tissue section

- 6 Dry tissue sections overnight at RT



- 7 After drying, store cut slides at 4°C (for up to six months)

- 
- 8 **NOTE:** Do not place any stickers or labels on the frosted end of the slide as it may interfere with coverslip adhesion. Use markers or directly print labels on the slide.