



Genomics Core Lab - Rm N109
Dalhousie University
1348 Summer Street
Halifax, Nova Scotia, B3H 0A8

Contact: Genomics@dal.ca

Sample submission guidelines for 10X Genomics Xenium Platform

Prior to sample submission:

Xenium runs are long and time sensitive so please contact Genomics@dal.ca prior to beginning your assay so we can coordinate slide preparation and instrument availability.

Complete the sample submission form.

Provide a cell phone number for a point of contact for any potential issues during assay preparation.

Sample drop off or shipping:

If dropping off samples by hand to the Genomics Core lab, contact Genomics@dal.ca to ensure a seamless handover.

If shipping samples, please only ship on Monday or Tuesday to prevent weekend delays.

For fresh frozen samples place a generous supply of dry ice to ensure dry ice will remain for the duration of the delivery time.

For international clients, we recommend shipping with World Courier for tissues/cells.

Within Canada, we recommend FedEx Next Day Priority services.

Shipping address:

Attn: Mat Nightingale

Genomics Core Lab

1348 Summer Street

Life Science Research Institute

Dalhousie University

Halifax, Nova Scotia, B3H 0A8

Receiving Conditions

Fresh Frozen Samples

Section placement on slides:

- Place tissue sections within sample area (10.45mm * 22.45mm). The sample area is surrounded by fiducial reference markers. Tissue sections placed within the sample area should **NOT** obstruct the fiducials.
- The sample area can accommodate as many tissue sections as can fit within the space.
- Ensure tissue sections (including OCT compound) **DO NOT** overlap.
- An etched label representing the slide ID, part and version numbers is located at the bottom of the slide. Tissue sections should be placed on the labeled side of the slide.
- Recommended section thickness for most tissue types is 10 µm.

Storage:

- Keep slides cold and transport on dry ice. **DO NOT** leave slides at room temperature.
- Store slides individually (one slide per slide mailer or 50-ml falcon tube) at -80°C.
- Slides need to be processed within 4 weeks so transfer them to the Dalhousie Genomics Core as soon as possible after sectioning.

10X Genomics provides guidance on slide preparation for fresh frozen tissue which can be found [here](#).

We recommend you read this document before proceeding.

FFPE Samples

Section placement on slides:

- Place the tissue sections within sample area (10.45mm * 22.45mm). The sample area is surrounded by fiducials reference markers. Tissue sections placed within the sample area should **NOT** obstruct the fiducials.
- The sample area can accommodate as many tissue sections as can fit within the space.
- Ensure tissue sections (including paraffin) **DO NOT** overlap.
- An etched label representing the slide ID, part and version numbers is located at the bottom of the slide. Tissue sections should be placed on the labeled side of the slide.
- Recommended section thickness for most tissue types is 5 µm.

Storage:

Maintain slides containing tissue sections in a low moisture environment such as a desiccator. Transport slides at room temperature.

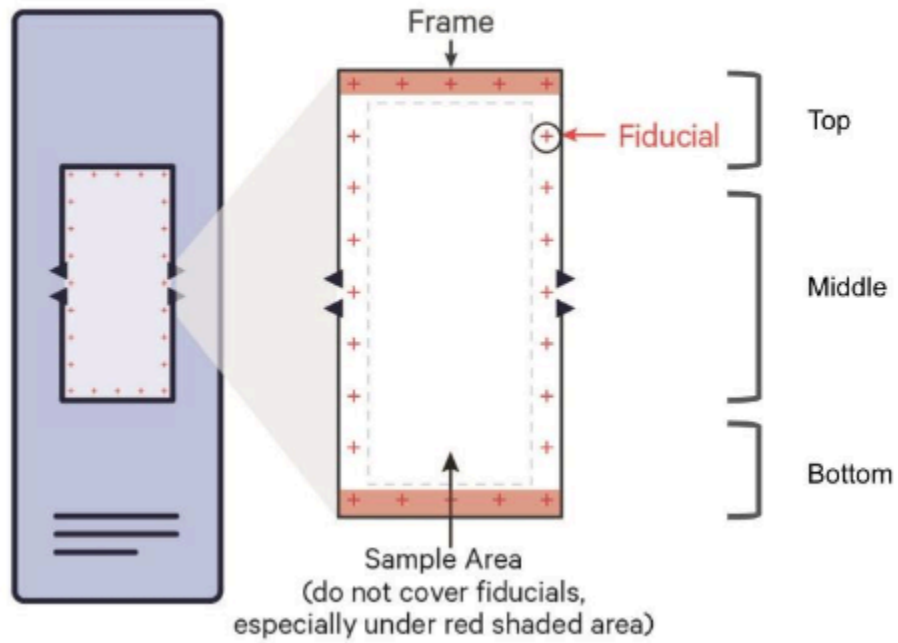
Slides need to be processed within 2 weeks so please ensure that you schedule sample submission before mounting tissue sections on slides.

10X Genomics provides guidance on slide preparation for FFPE tissue which can be found [here](#).

We recommend you read this document before proceeding.

Example of correct Xenium slide preparation

Xenium Slide



Correctly Placed



Incorrectly Placed - Fiducials are Obstructed



Incorrectly Placed - Fiducials are Obstructed

