

Single Cell RNA-Seq Services Sample Submission Guidelines

High quality data are obtained with high quality starting material. The guidelines in this document detail the recommendations for preparing and shipping samples for our Single Cell RNA-Seq services on the 10X Chromium platform. If you have additional questions, please contact us directly at samples.canopy@bruker.com.

SHIPPING INFORMATION

All samples should be shipped overnight on dry ice to the following address:

Canopy Biosciences
Attn: Sample Receiving
4340 Duncan Ave
St. Louis MO 63110

Please notify Canopy of your shipment and provide tracking information by emailing samples.canopy@bruker.com. In addition, please include your quote number in the email and attach an electronic copy of your sample key. Please include a hard copy of your sample key with your shipment to aid in receipt processing. Samples must arrive on a weekday.

For domestic shipments, samples should be shipped FedEx Priority Overnight (or similar) on dry ice. Place samples in a cardboard box, place the box in a sealed plastic bag and bury this bag in the dry ice. Your outer box should include a Styrofoam insert.

For international shipments, samples should be shipped on dry ice with enough dry ice for the duration of the shipment. You may want to consult your shipping courier for specific guidelines. We recommend a full-service courier (e.g. Biocair) as an international carrier. Place samples in a cardboard box, place the box in a sealed plastic bag and bury this bag in the dry ice. Your outer box should include a Styrofoam insert.

SAMPLE INPUT INFORMATION

General Requirements:

- Samples must not contain infectious material
- Tubes must be clearly labeled and the sample names must match what is written on the Sample Key. We accept any labeling schemes but recommend simple alpha-numeric nomenclature that blinds our lab from experimental treatment conditions.
- We recommend including enough dry ice to ensure sample integrity for a 2-day transit time.

Cell Input Requirements:

- Minimum Sample Number: 4
- Minimum Concentration of: 2M cells/mL per sample
- Sample Viability: 80%* post thaw
- Fixation Medium: Cryopreservation media (e.g. cell culture media supplemented with 20% FBS and 10% DMSO)

*Sample Viability:

We request that your cells have a sample viability of 80% post thaw. To maximize the amount of useful sequencing data in single-cell projects, the fraction of dead cells must be minimized. Samples with less than 80% viability will undergo dead cell removal. If this is an issue, please contact us directly to discuss.

Tissue Input Requirements (Single Nuclei RNA-Seq):

- Minimum Sample Number: 4
- Acceptable tissue size: 5-30mg
- Tissue must be flash frozen*

*Tissue Handling:

We recommend washing tissues in a clean glass petri dish with cold PBS upon harvest and to absorb excess blood with a laboratory wipe. Tissue should be cut into small pieces (i.e. the size of a rice grain) and placed in a cryovial. To flash freeze, either submerge the cryovial in liquid nitrogen or a liquid-nitrogen cooled bath (e.g., isopentane), or you can place the tube deep in a bucket of dry ice. Wait 2-3 minutes for the tissue to freeze all the way through and transfer the tube containing the tissue to vapor phase liquid nitrogen for long-term storage.

COMMUNICATION

You may have questions about your project, the documentation required, and shipping process. Please reach out to your sales rep directly or email our team at samples.canopy@bruker.com. Be sure to include your name, account name and quote number so we can reference your project.