

## CCR\_Sequencing Facility 10X Genomics Single Cell Sample Requirements

For our Chromium Next GEM Single Cell 3' and 5' gene expression V(D)J immune profiling services

### Sample types, we accept:

- Fresh samples
- Cryopreserved samples
- Methanol fixed samples (it is not compatible with 5' V(D)J immune profiling)

\*\*\*Please make sure to report any biological hazards to CCR\_SF.

### ➤ Fresh Sample Requirements:

\*\*\*Fresh samples need to be at CCR\_SF within 1-1.5 hour after dissociation. Fresh samples need to be loaded onto the 10X machine as soon as possible after dissociation. Please bring your samples before 2pm!

#### Cell parameters:

- Recommended cell number recommended:  $>1 \times 10^6$  cells/mL. Minimum 200,000 cells/mL
- Viability: Recommended  $>90\%$ . Acceptable 70%-90%.

#### Container:

Please use 15mL conical Falcon tubes or 2 mL Eppendorf tubes

#### Medium:

You can hand your dissociated cells over in cell culture medium (max 10% FCS)

#### Labeling:

Please label tubes clearly and use permanent markers or labels. Always label your tubes on the lids and the side. Please use short unambiguous names (e.g. CTRL, IFN1..).

#### Temperature:

Please deliver your cells on ice

➤ **Cryopreserved Sample Requirements:**

**\*\*\*Please use 10X Genomics recommended or supported cryopreservation protocols for your cells.**

**Cell parameters:**

- Recommended cell number recommended:  $>1 \times 10^6$  cells/mL. Minimum 500,000 cells/mL
- Viability: Recommended  $>90\%$ . Acceptable 70%-90%.

**Container:**

Please use Cryovial

**Medium:**

Cryopreservation media, composition depending on protocol

**Labeling:**

Please label tubes clearly and use permanent markers or labels. Always label your tubes on the lids and the side. Please use short unambiguous names (e.g. CTRL, IFN1..).

**Temperature:**

Please store your samples according to the protocol (-80C/Liquid Nitrogen).

Please ship your samples on dry ice

➤ **Methanol Fixed Samples:**

*\*\*\*Please note that immune profiling 5' V(D)J is not supported on methanol fixed cells. Also, RNA complexity decreases with methanol fixation. It should be use only when samples need to be collected at strict time points. Please use 10X Genomics demonstrated protocol for methanol fixation.*

**Cell parameters:**

- *Recommended cell number recommended:  $>1 \times 10^6$  cells/mL. Minimum 200,000 cells/mL*
- *Viability: Recommended  $>90\%$ . Acceptable 70%-90%.*

**Container:**

*Please use screwcap Eppendorf tubes*

**Medium:**

*80% Methanol*

**Labeling:**

*Please label tubes clearly and use permanent markers or labels. Always label your tubes on the lids and the side. Please use short unambiguous names (e.g. CTRL, IFN1..).*

**Temperature:**

*Please store your samples according to the protocol (-20C or -80C for  $<6$  weeks).*

*Please ship your samples on dry ice*