

Snap Freezing Protocol For Tissue	
Document #: LIBPR_WORKINST.0028	Supersedes: New
Version: 1	Page 1 of 2

***This is a non-controlled version.***

***\*Note: controlled versions of this document are subject to change without notice.***

## **Snap Freezing Protocol For Tissue**

### **I. Purpose**

To provide details regarding the snap freezing and storage of tissue samples.

### **1. Preparation of Workstation and BSC (Biological Safety Cabinet)**

1.1. Follow standard practices of operating a BSC and thoroughly wipe it down before use.

1.2. Clean and prepare a workstation close to the BSC. The following equipment and reagents are required:

- a. Styrofoam box containing dry ice
- b. Vessel containing liquid nitrogen
- c. Tweezers or forceps to transfer tubes/vials
- d. Styrofoam box containing wet ice
- e. Protease inhibitor\*
- f. P10 pipette and tips
- g. Appropriate PPE (personal protective equipment) to handle dry ice and liquid nitrogen

\*A protease inhibitor is mandatory to add to the tissue prior to snap freezing if the sample is to be used for downstream protein studies (e.g. ChIP).

### **2. Tissue Sample Handling and Addition of Protease Inhibitors in BSC**

2.1. Cut, tube transfer, manipulate, add protease inhibitor or handle the tissue sample in the BSC if required.

2.2. For ChIP (Chromatin Immunoprecipitation) studies, 100-200mg of tissue is required.

2.3. Ensure the tube/vessel is completely closed, wipe with 70% ethanol. Label the tube.

### **3. Snap Freezing Tissue and Transfer to Storage**

3.1. Immediately submerge the sample tube into liquid nitrogen for snap freezing of the tissue.

3.2. Snap freezing is immediate. Leave the tube submerged for ~30 sec to completely snap freeze the tissue.

Snap Freezing Protocol For Tissue	
Document #: LIBPR_WORKINST.0028	Supersedes: New
Version: 1	Page 2 of 2

***This is a non-controlled version.***

***\*Note: controlled versions of this document are subject to change without notice.***

3.3. Transfer the tube quickly to the Styrofoam box containing dry ice.

3.4. Transfer the tube to a -80°C freezer for long-term storage.

OFFICIAL