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| STANDARD OPERATING PROCEDURE |
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| **Title: Tissue sample preparation** |
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| **Version #: 2** | **Author: PNNL Lab** |
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# Purpose

The purpose of this document is to describe the procedure for tissue sample preparation.

# Scope

This procedure may be used to make lysate from tissue samples.

# Responsibilities

It is the responsibility of person(s) performing this procedure to be familiar with laboratory safety procedures. The interpretation of results must be done by a person trained in the procedure and familiar with such interpretation.

# Equipment

# Pellet Pestle Homogenizer

# Sonication bath (Branson)

# Refrigerated centrifuge (Eppendorf)

# Speed-Vac (Thermo)

# Materials

# 0.6, 1.5, and 2.0-mL microcentrifuge tubes (Fisher)

# 4.0-mL cryovials (Corning)

# Reagents

# Urea (Sigma Aldrich)

# Complete Protease Inhibitor tables (Roche)

# BCA Assay Reagents A and B (Thermo Pierce)

# Solutions

# Lysis Buffer (8M urea (2.4g/5mL), 75mM NaCl in 100 mM NH4HCO3 pH 7.8 (to 5 mL), 10 mM NaF (100 ul of 2 g/dL stock per 5 mL), phosphatase inhibitor cocktail 2 (50ul per 5 mL Sigma P5726) and cocktail 3 (50 ul per 5 mL, Sigma P0044), cOmplete (Roche 05 892 791 001 -1/2 tablet per 5 mL))

# Procedure

# Chill sample and lysis buffer on ice.

1. Add 500 ul lysis buffer to tissue samples.
2. Homogenize on an ice block until sample is thoroughly mixed, at least 1 min.
3. Vortex on high for 3 min and sonicate in a sonication bath for 3 min
4. Remove aliquot for BCA assay

# Referenced Documents

List any publications or documents referenced in the SOP.