





# Fat or Adipose Tissue

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: 100 to 1000 mg.

**Notes on the protocol:** This protocol does not specify a particular buffer - you may choose which is most appropriate for your downstream application (nucleic acid isolation, protein extraction, etc.).

# **Materials Required**

One of these Bullet Blenders

- Bullet Blender 5 Storm (BBY5M)
- Bullet Blender 5E (BBY5E)
- Bullet Blender 5 Gold (BB5E-AU)

# Reagents

### **Homogenization buffer**

2 x volume of sample

### PBS (optional)

2 x volume of sample

### Bead choices

• 2.0 mm zirconium oxide beads (ZROB20) Use a volume of beads equivalent to 1 x the volume of the sample

### Procedure

- 1. Cut the sample into appropriately sized pieces. For larger samples, we recommend cutting the material into long, thin strips for faster homogenization.
- 2. (Optional) Wash the sample 3x with 1/2 tube volume of PBS to remove surface contaminants.
- 3. Place the sample in the tube with the beads.
- 4. Add a volume of buffer that is twice the volume of the sample. Sample volume may be approximated by sample weight. E.g., for a 100 mg. sample, add 0.2 ml. buffer.
- 5. Close the tubes tightly and place them in the Bullet Blender.
- 6. Set the controls for Speed 10 and Time 3. Press Start.
- 7. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, repeat the homogenization step at a higher speed.
- 8. Proceed with your downstream application.

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