Protocol for *D. melanogaster* Adults Homogenization in the Bullet Blender[®]

The protocol described in this document is for the use of the Bullet Blender[®] for the homogenization of Drosophila melanogaster adults. 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:

adult Drosophila, Bullet Blender[®], homogenization buffer, pipettor, microcentrifuge tubes, and Zirconium Oxide beads (0.5mm or 1.0mm) or Zirconium Silicate beads (0.5mm).

Instructions

- **1.** Place 10-300mg of flies into microcentrifuge tubes.
- **2.** Add a volume of beads equal to the mass of tissue. **NOTE:** $100 \text{ mg} \simeq 100 \mu \text{L}$.
- **3.** Add 0.2mL to 2.0mL buffer (2 volumes of buffer for every volume of sample).
- **4.** Close the microcentrifuge tubes.
- **5.** Place tubes into the Bullet Blender[®].
- 6. Set controls for **SPEED 8** and **TIME 3** minutes.
- **7.** Remove tubes from the instrument.
- 8. Visually inspect samples, if homogenization is unsatisfactory, run for another two minutes at the SPEED 10.
- **9.** Proceed with your downstream application.

before

SAFETY NOTE!!!

When using a centrifuge to separate your homogenate from the debris and beads, make sure your tubes are balanced.

TYPICAL RESULTS

Latest revision: 24 June 2009

after (flies only) (ZrSiO beads) (ZrO beads)

after



Quasar Instruments, LLC 4835 Centennial Blvd. Colorado Springs, CO 80919

