## Protocol for *D. melanogaster* Adults Homogenization in the Bullet Blender<sup>®</sup>

The protocol described in this document is for the use of the Bullet Blender<sup>®</sup> 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 <u>Zirconium Oxide beads</u> (0.5mm or 1.0mm) or <u>Zirconium Silicate beads</u> (0.5mm)

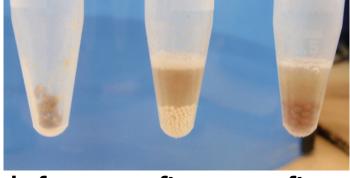
## **Instructions**

- **1.** Place 10-300mg of flies into microcentrifuge tubes.
- **2.** Add a volume of beads equal to the mass of tissue. **NOTE:**  $100 \text{mg} \cong 100 \mu \text{L}$ .
- **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<sup>®</sup>.
- **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.

## **SAFETY NOTE!!!**

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

## **TYPICAL RESULTS**



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

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