## Homogenization in the Bullet Blender<sup>®</sup> 5 Protocol for *D. melanogaster* Adults

The protocol described in this document is for the use of the Bullet Blender<sup>®</sup> 5 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<sup>®</sup> 5, homogenization buffer, pipettor, 5mL Axygen<sup>®</sup> brand tubes, and 0.5mm zirconium oxide beads (part number ZROB05)

## Instructions

- 1. Place 100-1000mg of flies into 5ml tubes.
- **2.** Add a volume of beads equal to the mass of tissue. **NOTE:**  $100 \text{mg} \approx 100 \mu \text{L}$ .
- **3.** Add 0.2mL to 2.0mL buffer (2 volumes of buffer for every volume of sample).
- **4.** *Tightly* screw the centrifuge tubes closed and place them into the Bullet Blender<sup>®</sup>.
- 5. Set controls for SPEED 8 and TIME 3 minutes. Press start.
- **6.** After the run, remove the tubes from the instrument.
- 7. Visually inspect samples, if homogenization is unsatisfactory, run for another two minutes at **SPEED 9**.
- **8.** 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.

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