Protocol for Soybean

Homogenization in the Bullet Blender™

The protocol described in this document is for the use of the Bullet BlenderTM for the homogenization of soybean (seeds from *Glycine max*). Note that the time and speed settings may differ due to the variation in consistency/texture of different subspecies. 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: soybean, saline, Bullet Blender™, homogenization buffer, pipetor,

microcentrifuge tubes, 0.5mm zirconium oxide beads (part

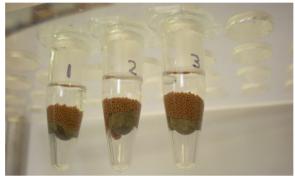
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Instructions

- **1.** Place one soybean (100-200mg) into a microcentrifuge tube.
- **2.** Add 1.4g of zirconium oxide beads (0.5mm) to the tube.
- 3. Before adding buffer, close the tubes and place them into the Bullet Blender™.
- 4. Set controls for **SPEED 10** and **TIME 4** minutes. Press **Start**.
- **5.** Remove the tubes from the Bullet Blender and inspect the samples. At this time, the Beans should be pulverized into very small pieces similar to a thick dust. If any large pieces remain, repeat step 4.
- **6.** Remove the tubes from the Bullet Blender and 0.4mL buffer to the tube.
- 7. Close the microcentrifuge tubes and place them into the Bullet Blender.
- **8.** Set controls for **SPEED 10** and **TIME 2** minutes. Press **Start**.
- **9.** After the run, remove tubes from the instrument and 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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