

# Protocol for Blueberry Homogenization in the Bullet Blender™

The protocol described in this document is for the use of the Bullet Blender™ for the homogenization of blueberry (flesh, seeds and skin from the genus *Vaccinium* L.). 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.).

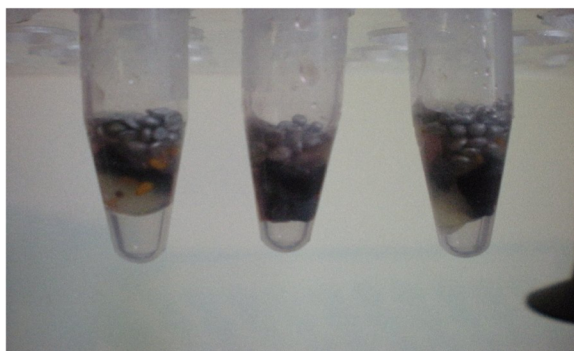
**Materials Required:** blueberry, saline, aspirator, Bullet Blender™, homogenization buffer, pipettor, microcentrifuge tubes, [0.9-2.0mm stainless steel bead blend \(part number SSB14B\)](#)

## Instructions

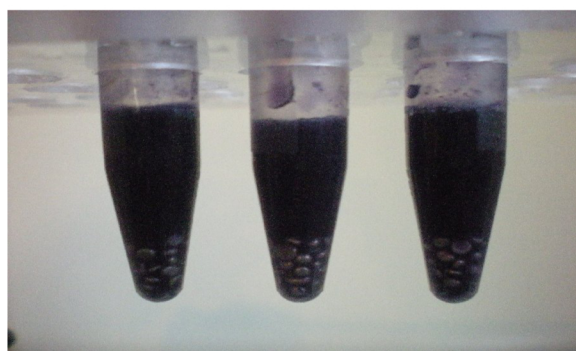
- 1. OPTIONAL:** Wash blueberry 3x with ~1mL PBS. Aspirate. **NOTE:** This step removes some external contaminants and debris.
- Section blueberry into quarters. Place quarter (100-200mg) into a microcentrifuge tube. Size may vary depending on species.
- Add a mass of the stainless steel bead blend equal to 1.5X the mass of fruit. One scoop of beads  $\approx$  200mg.
- Add 0.2ml to 0.6ml buffer, i.e. 2 volumes of buffer to the tube for every mass of sample.
- Close the microcentrifuge tubes.
- Place tubes into the Bullet Blender™.
- Set controls for **SPEED 8** and **TIME 3** minutes. Press **Start**.
- After the run, remove tubes from the instrument.
- Visually inspect samples. If homogenization is unsatisfactory, run for another three minutes at the **SPEED 10**.
- Remove sample tubes from the Bullet Blender™ 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.**



**before**



**after**



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