NEXT ADVANCE

Bullet Blender Protocol

Blood (dried)

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: up to 25 – 150 mg.

Notes on the protocol: 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

One of these Bullet Blenders

- **Bullet Blender** (BBX24)*
- **Bullet Blender Blue** (BBX24B)*
- **Bullet Blender Storm 24** (BBY24M)
- **Bullet Blender 24 Gold** (BB24-AU)

*To use these models, set the speed to 10 and use no more than two tubes in the machine.

Reagents

Homogenization buffer

400 ul

Bead choices

- **NAVY bead lysis kit** (NAVY)
- **3.5 mm stainless steel UFO beads** (SSUFO35) use 8 beads
- **Bead combination:**
  3.2 mm stainless steel beads (SSB32) use 5 beads **plus**
  0.9 - 2.0 mm stainless steel blend (SSB14B) use 100ul beads

Procedure

1. Place the sample in the tube with the beads.
2. Add the homogenization buffer, and wait for 5 minutes to allow the sample to rehydrate.
3. Close the tubes tightly and place them in the Bullet Blender.
4. Set the controls for Speed 12 and Time 5. Press Start.
5. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, repeat the homogenization step.
6. Proceed with your downstream application.