NEXT ADVANCE

Bullet Blender Protocol

Barberry (leaves)

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: up to 10 – 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)

Reagents

Homogenization buffer

2 x volume of sample

Bead choices

- **PINK bead lysis kit** (PINK) (for samples between 10 and 50 mg.)
- **RED bead lysis kit** (RED) (for samples between 10 and 150 mg.)
- **1.0 mm zirconium oxide beads** (ZROB10) Use a volume of beads equivalent to 1 x the volume of the sample

Procedure

1. Cut the sample into appropriately sized pieces. For larger samples, we recommend cutting the material into long, thin strips for faster homogenization.
2. Add the sample, buffer and beads to the tube in the amounts shown above. Sample volume may be approximated by sample weight.
3. Set the controls for Speed 10 and Time 3. Press Start.
4. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, repeat the homogenization step at a higher speed.
5. Proceed with your downstream application.