Wheat berries

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: 20 to 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

500 ul

Bead choices

- **3.5 mm stainless steel UFO beads** (SSUFO35) use 6 beads

Procedure
1. Crush the sample in the tube using the Stomper.Place the grains into the tube, and use the Next Advance Stomper to pre-crush them.
2. Add the beads to the tube.
3. Close the tubes tightly and place them in the Bullet Blender.
4. Set the controls for Speed 10 and Time 5. Press Start.
5. After the run, remove the tubes from the instrument. Add the buffer.
6. Return the tubes to the Bullet Blender.
7. Set the controls for Speed 12 and Time 5. Press Start.
8. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, homogenize for another 5 minutes.
9. Proceed with your downstream application.