





Oak (mature leaves)

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: 100 to 3500 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 50-DX (BB50-DX)
- Bullet Blender 50 Gold (BB50-AU)

Reagents

Homogenization buffer

2 x volume of sample

Bead choices

4.8 mm stainless steel beads (SSB48) Use a volume of beads equivalent to 1 x the volume of the sample

Procedure

- 1. Slice the leaves perpendicular to the main stem into strips approx. 1/8 inch wide. Total mass of the plant material should be 1 g. or less.
- 2. Place the sample in the tube with the beads.
- 3. Close the tubes tightly and place them in the Bullet Blender.
- 4. Set the controls for Speed 12 and Time 9. Press Start.
- 5. After the run, remove the tubes from the instrument and add 5 ml. buffer. Shake the tubes vigorously for 5 seconds.
- 6. Return the tubes to the Bullet Blender.
- 7. Set the controls for Speed 12 and Time 6. Press Start.
- 8. Proceed with your downstream application.