



Dry Cumin Seeds homogenization in micro centrifuge tubes

H-Cumin

Materials:

Samples: 250mg of dry cumin seeds

Method - Homogenization:

1. Determine the sample size, bead lysis kit and a kit for DNA isolation. **Note:** Choose proper [lysis kit](#) for your application; Sample size is dependent on the DNA isolation kit.
2. Aliquot appropriate buffer into the labeled bead lysis kit tubes. **Note:** Buffer volume and type are dependent on the end product desired.
3. Place the sample into the buffer-filled tubes (Figure 1).
4. Close the tubes tightly and place into the Bullet Blender. **Note:** Confirm the compatibility of the [contact plate](#) with the tubes (RINO/EPPENDORF) used.
5. Set the speed and time on the Bullet Blender (Table 1). Press "Start", and wait for the run to complete.

Bullet Blender	For homogenization	
Model	Speed	Time
BB5E-Pro	12	5

6. Remove the tubes and visually inspect the samples to confirm complete homogenization (Figure 2). **Note:** Foaming in the sample tubes may be observed after homogenization. **Optional:** Centrifuge samples at 12,000 RCF for 8 minutes to clarify the homogenate.

Figure 1: Pre-homogenization

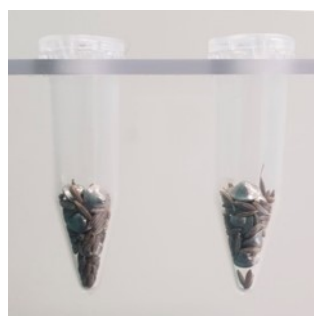
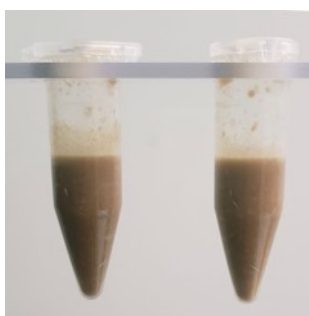


Figure 2: Post-homogenization



Homogenization verification

