NEXT ADVANCE

Bullet Blender Protocol

Dry Rice homogenization in micro centrifuge tubes

H-Rice

Materials:

Samples: 250mg of dry rice (Smash the samples with a hammer prior to weighing)

Method - Homogenization:

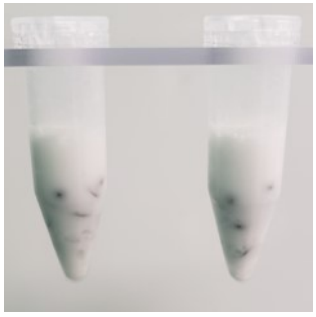
1. Determine the sample size, bead lysis kit and a kit for DNA isolation. ***Note:*** *Choose proper lysis kit for your application; Sample size is dependent on the DNA isolation kit.*
2. Aliquot appropriate buffer into the labeled bead lysis kit tubes. ***Note:*** *Buffer volume and type are dependent on the end product desired.*
3. Smash the sample and place 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

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