NEXT ADVANCE

Bullet Blender Protocol

Homogenization protocol for Mouse blood vessels using Bullet Blender

Materials:

Samples: 10 mg of frozen Blood vessels from a healthy mouse

Bead lysis kit: 1.5 mL RINO/Eppendorf Lysis Kit (SKU: PINKR1/PINKR5 or PINKE1/PINKE5)

Buffer volume: 100 to 300 µL of buffer

Method - Homogenization:

1. Determine the sample size, buffer (depends on the downstream application), buffer volume and the bead lysis kit. ***Note:*** *Choose the correct lysis kit for optimal homogenization.*
2. Cut the sample and place into the buffer-filled tubes (Figure 1).
3. Close the tubes tightly and place into the Bullet Blender. ***Note:*** *Confirm the compatibility of the contact plate with the tubes (RINO/EPPENDORF) used.*
4. Set the speed and time on the Bullet Blender (Table 1). Press "Start", and wait for the run to complete.

Bullet Blender Model	Settings
BB24-AU or BT24M	Speed 12; Time 3

5. 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.*
6. If homogenization is satisfactory, proceed with the downstream steps.

Figure 1: Pre-homogenization

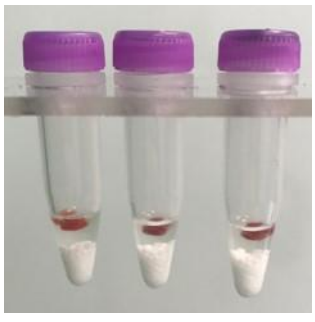
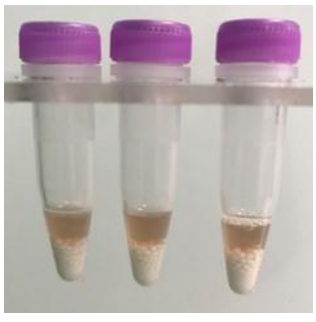
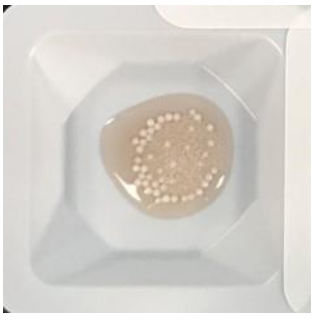


Figure 2: Post-homogenization



Homogenization verification



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