

Training Manual for the Bullet Blender®



Introduction

This manual will guide you through using the Bullet Blender for the first time.

For this training session, we will use a leaf from a houseplant or tree.



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Step 1: Choose Sample



Houseplant
leaves like
philodendron
or spider plant



Tree leaves like
beech or maple



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Step 2 – Prepare sample



Take a piece of leaf that is as long as a microcentrifuge tube, and half as wide. Slice it into strips.

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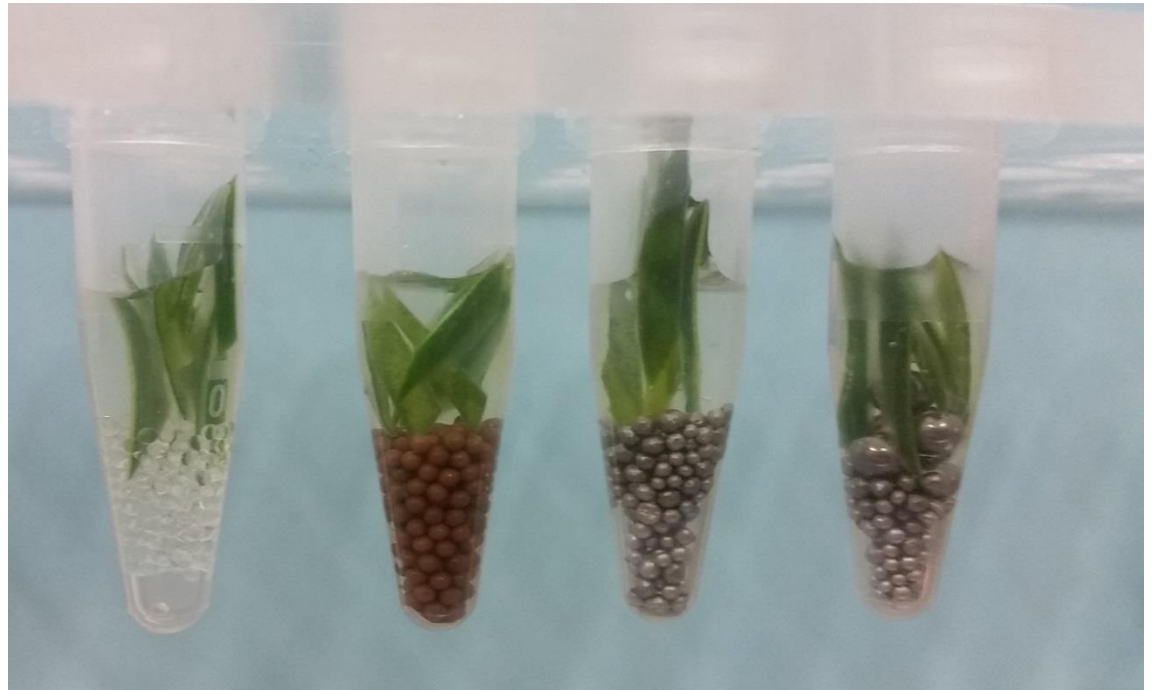
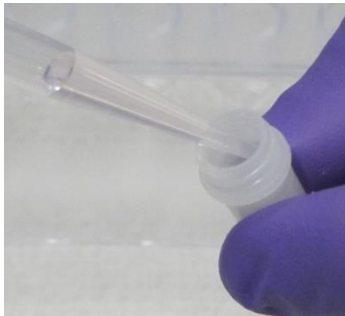
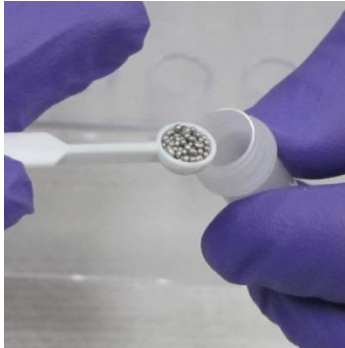
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Step 3 – Load tubes

200 μ l of beads
or a Red or Navy kit
+ 500 μ l water

You can use different kinds of beads to see
how bead choice affects homogenization

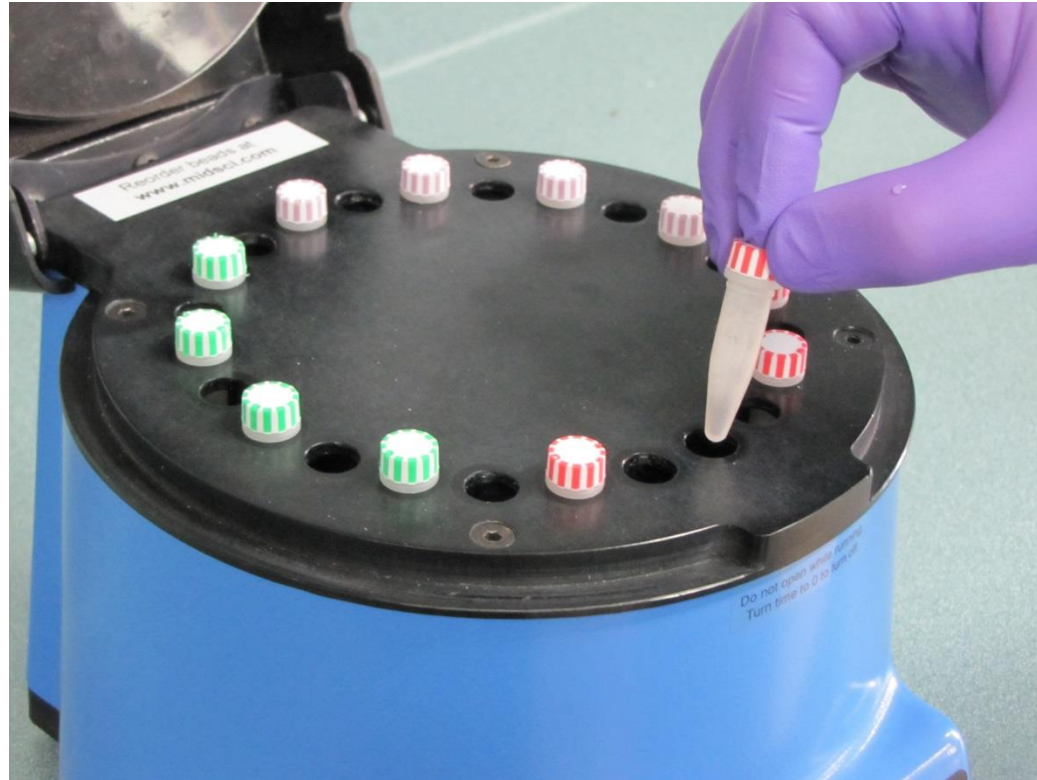


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Step 4 – Load Bullet Blender



Tubes do not have to “balance”
but even spacing helps

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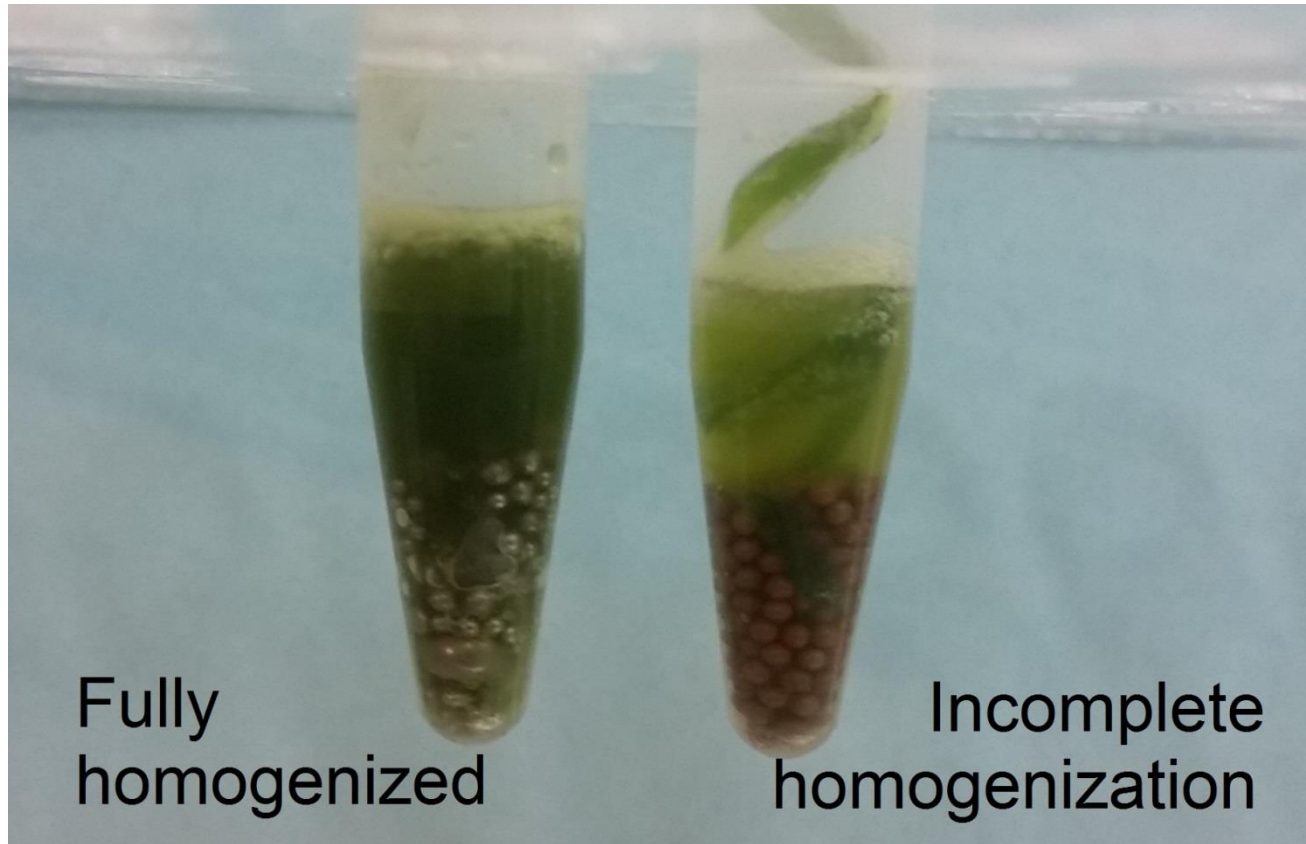
Step 5 – Run Bullet Blender



Set time, speed and press “Start”
For this session, set time to 3, speed to 10



Step 6 – Remove tubes



Remove your tubes from the Bullet Blender and confirm the samples are homogenized.

There should be no pieces visible.

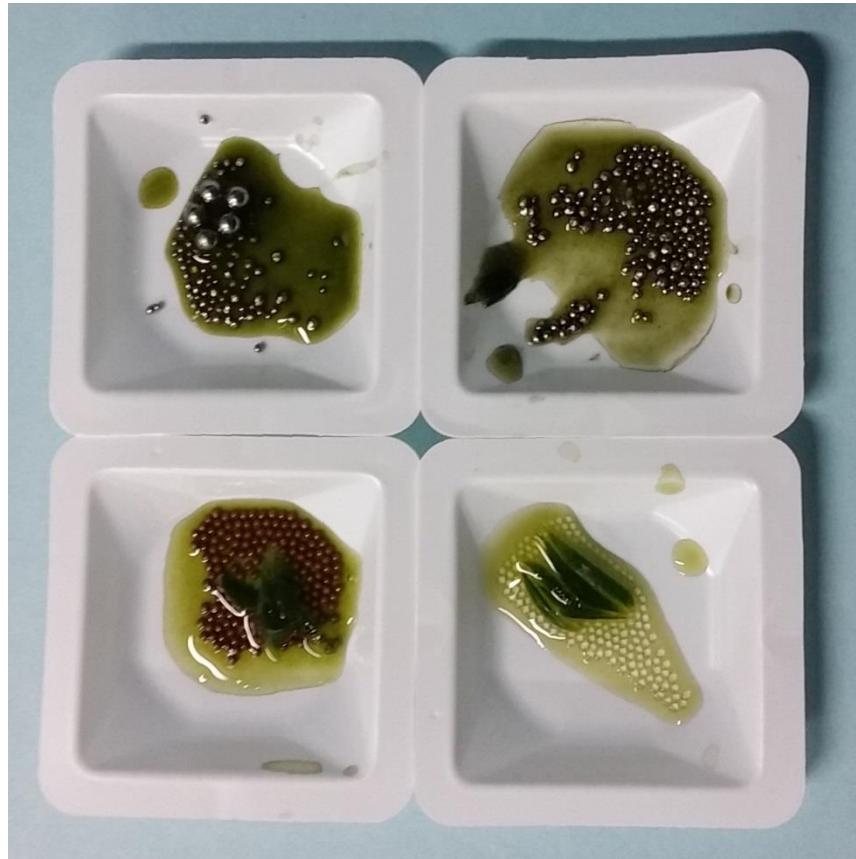
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Effect of Different Beads

Navy kit



SSB14B beads

ZrOB10 beads

GB10 beads



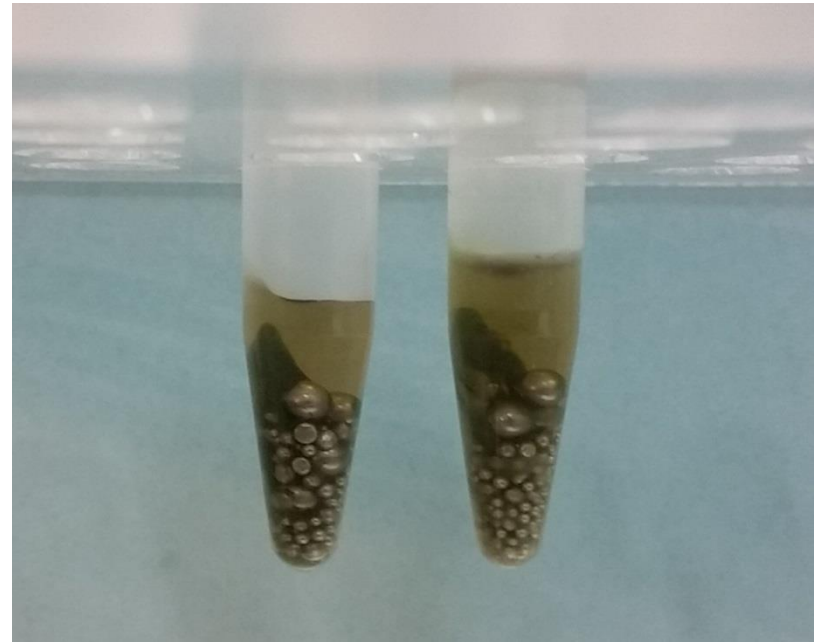
All samples run 3 minutes speed 10

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Step 7 – Centrifuge samples (optional)



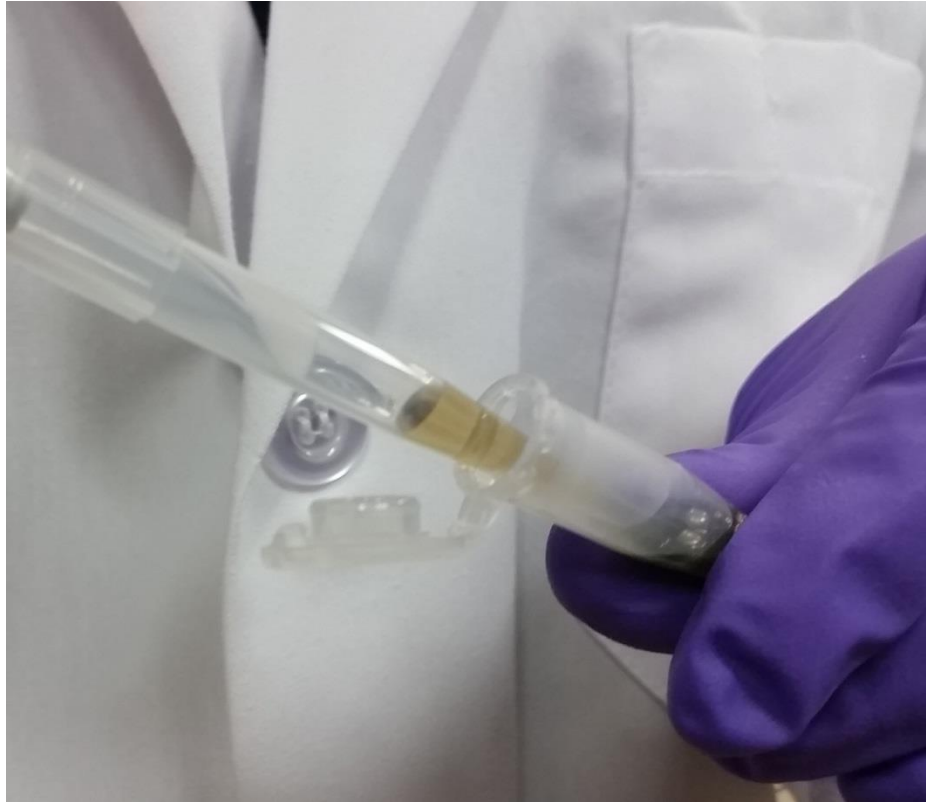
Typical centrifuge settings are 12,000 x g for 8 minutes
to clarify homogenate
Insoluble material like cellulose will sink

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Step 8 – Remove homogenate



Homogenate can be removed with a pipette
and placed in a new tube.

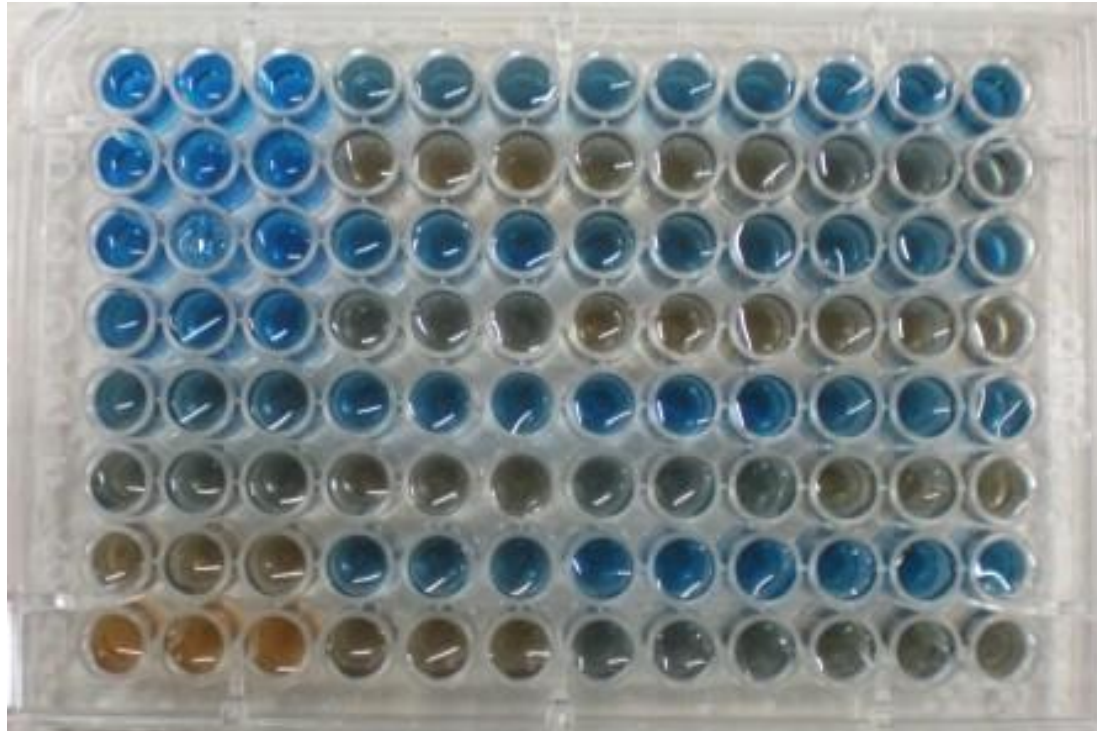


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Step 9 – Use sample in your assay



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