



BulletBlender

The easiest and coolest way to lyse cells and homogenize tissue.

▶▶▶ You'll be amazed at how much time and money you can save!

The BULLET BLENDER® enables you to homogenize, disrupt, or lyse up to 24 tissue or cell culture samples at a time. Load the samples into standard polypropylene tubes, then place them in the BULLET BLENDER. The "bullets" in the instrument vigorously strike all of the tubes and homogenize your sample in minutes.

NEW! The Bullet Blender homogenizer is now available with Dry Ice Cooling™ to keep your samples near 4°C!



Consistent and High Yield Results

The BULLET BLENDER homogenizer prepares up to 24 samples **in less than 4 minutes**. All of the samples are automatically homogenized in the same manner, with high yields, so there is very little variation from sample to sample.

Flexibility

By adjusting bead size, density, time and speed, you can isolate **proteins, nucleic acids, organelles or specific cells from tissue**.

No Cross-Contamination or Sample Loss

There are no probes or blades to cause cross contamination or sample loss, which also means there are no parts to clean between runs. The sample tubes are kept closed and self-contained during homogenization.

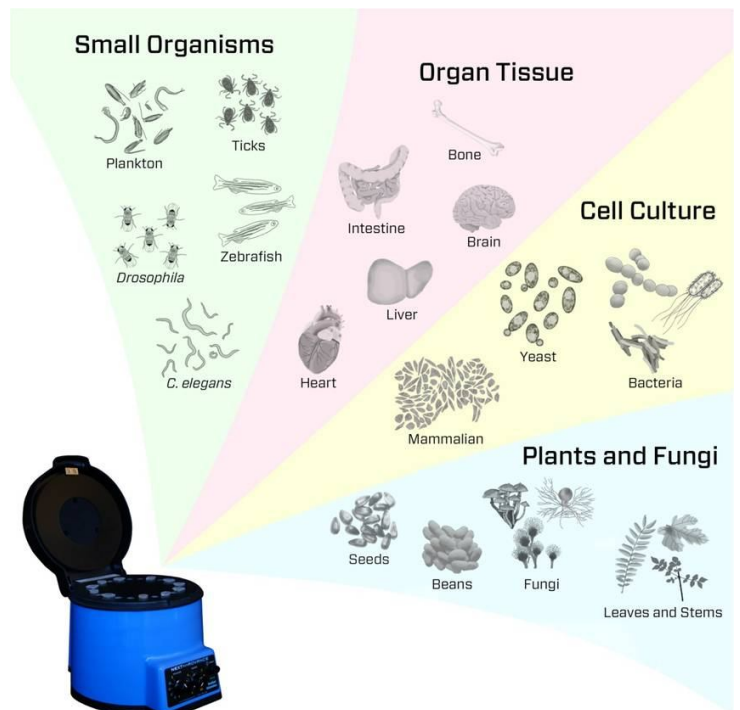
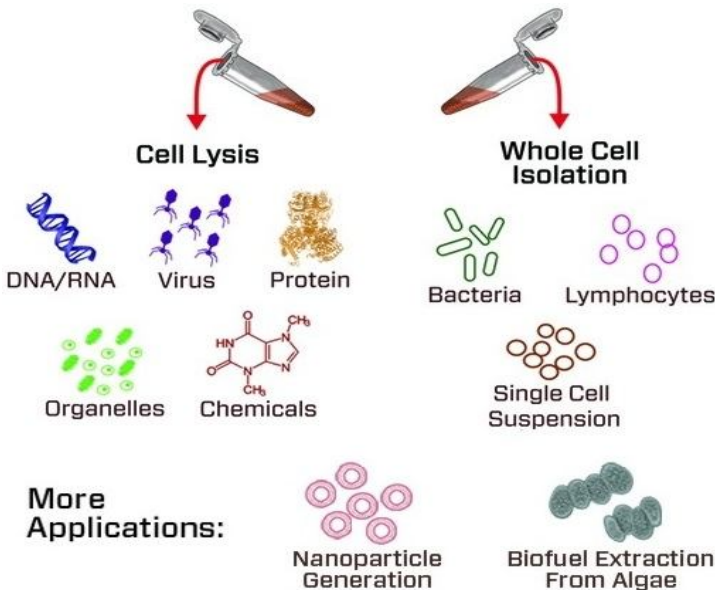
Samples Stay COOL

No cool down required. The Bullet Blender homogenizers use very little power due to the unique, patented design. There is very little heating of the samples because the sample tubes vibrate vigorously in air, keeping them cool, rather than being subjected to frictional heating as the tubes rub against the walls of a holder. Also, because the motor does not need to agitate any heavy platforms or plates, it is small and will last for many years. In addition, **Dry Ice Cooling™** is available in the **Gold models**.

So Easy To Use

Simply place your sample, beads and buffer in standard tubes, and load the tubes into the BULLET BLENDER homogenizer. Tune the extent of disruption by adjusting the run time and speed. Afterwards, place the sample tubes in a centrifuge to separate the lysate. No special holders are needed. There are no clamp plates nor locking rings to fiddle with.

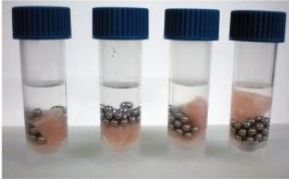
Use the Bullet Blender® for a Variety of Applications:



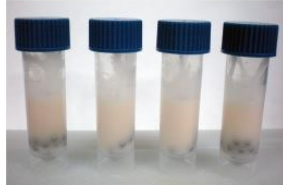
Bullet Blender: Homogenization examples

Muscle Tissue

Before



After



Can also homogenize other organ tissue including adipose, aorta, brain, colon, ear, eye, heart, intestine, kidney, liver, lung, lymph node, pancreas, pharynx, spleen, stomach and uterus.

Mouse Femur

Before



After



Can also homogenize other tough tissue including teeth, tumor, tibia, skin, jawbone and tail snip.



Tomato Plant Root

Before



After



Soy Bean

Before



After



Can also homogenize other dry, hard samples such as corn (maize), wheat, rice and other small beans.

Flying Ant

Before



After



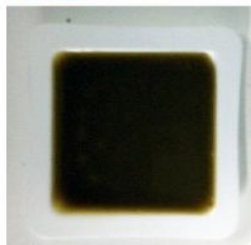
Can also homogenize other insects such as ticks, bees, spiders, flies, crickets and caterpillars.

Citrus Leaves

Before

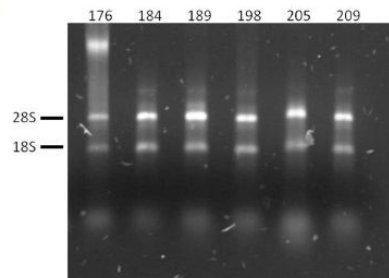


After



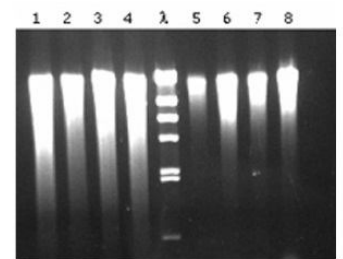
Can also homogenize other moist plant samples such as fruit, flowers and stems.

RNA Extraction



High quality RNA for qRT-PCR

DNA Extraction



Watch the Bullet Blender videos here:





Bullet Blender Models: Microcentrifuge

(samples 0-300 mg or 0-300 µl for plants, insects or cell culture)



Feature	Standard BBX24	Blue BBX24B	Storm BBY24M	Gold BB24AU
Homogenizes up to 24 samples at a time	✓	✓	✓	✓
With Air Cooling to keep the inside of the instrument near ambient temperature		✓	✓	✓
Can homogenize samples in both screw-cap and snap-cap tubes			✓	✓
Extra-powerful homogenization for tough samples			✓	✓
With 4°C Cooling				✓
Price	€2685	€3094	€3595	€4277

Bullet Blender Models: Larger Samples

(samples over 300 mg or 300 µl for plants, insects or cell culture)



Feature	5 Storm BBY5M	50-DX BB50-DX	50 Gold BB50-AU
Homogenization of up to 12 samples from 100 mg – 1 g (100 µl – 1 mL for plant tissue, insects and cell culture) in 5 mL tubes	✓		
Homogenization of up to 8 samples from 100 mg – 3.5 g (100 µl – 3.5 mL for plant tissue, insects and cell culture) in 50 mL tubes		✓	✓
With Air Cooling to keep the inside of the instrument near ambient temperature	✓	✓	✓
With 4°C Cooling			✓
Price	€3595	€4186	€4732

Risk Free Purchase

BULLET BLENDER homogenizers come with a 30 day money back guarantee and a 2 year warranty. The simple, reliable design enables the BULLET BLENDER to sell for one half the price of other agitation based instruments, yet provides an easier, quicker, cooler technique.

"That machine is a lifesaver! ... It worked out so well, we're contemplating purchasing a second one."

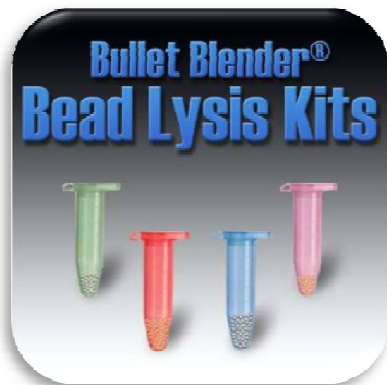
Dr. Lou Casta, Fraunhofer USA

The Bullet Blender is referenced in over 200 peer-reviewed publications!

Bullet Blender Beads and Tubes

Bullet Blender® Bead Overview

Beads are the components that strike and grind your samples resulting in tissue homogenization and cell lysis. We provide a variety of beads suitable for a wide array of samples. The general rule of thumb is to choose larger, denser beads for tougher samples. We also provide **RNase free beads** for RNA extractions, **Bead Lysis Kits** consisting of sample tubes preloaded with optimized bead mixtures, and **Sample Bead Packs** for different types of samples.



Bead Lysis Kits are pre-filled with bead combinations optimized to homogenize your specific tissue sample. Use for simpler, faster processing of your samples. RNase-free or non-sterile. Available in packs of 50 or 250.

Product	Cat. nr.	Price (Euro)
Glass beads. Density = 2.5g/mL. Diameter = 0.5mm. Package size is 1 lb. Non-sterile.	GB05	81
Glass beads. Density = 2.5g/mL. Diameter = 0.5mm. Package size is 4mL. RNase free.	GB05-RNA	75
Stainless steel beads. Density = 7.8g/mL. Diameter = 4.8mm. Package size is 1 lb. Non-sterile.	SSB48	137
Stainless steel beads. Density = 7.8g/mL. Diameter = 4.8mm. Package size is 4mL. RNase free.	SSB48-RNA	143
Zirconium Oxide beads. Density = 5.5g/mL. Diameter = 0.5mm. Package size is 1 lb. Non-sterile.	ZrOB05	128
Zirconium Oxide beads. Density = 5.5g/mL. Diameter = 0.5mm. Package size is 4mL. RNase-free.	ZrOB05-RNA	85
Zirconium Silicate beads. Density = 3.8g/mL. Diameter = 0.5mm. Package size is 1 lb. Non-sterile.	ZSB05	98
Zirconium Silicate beads. Density = 3.8g/mL. Diameter = 1.0mm. Package size is 1 lb. Non-sterile.	ZSB10	98
Zirconium Silicate beads. Density = 3.8g/mL. Diameter = 2.0mm. Package size is 1 lb. Non-sterile.	ZSB20	98
1.5mL Eppendorf Safe-Lock tubes prefilled with stainless steel beads.	GREENE1	121
1.5mL Eppendorf Safe-Lock tubes prefilled with stainless steel beads. RNase free.	GREENE1-RNA	139
1.5mL RINO screw-cap tubes prefilled with stainless steel beads.	GREENR1	124
1.5mL RINO screw-cap tubes prefilled with stainless steel beads. RNase free.	GREENR1-RNA	142
Bead Lysis Kit variety set. 1 each of PINKE1, REDE1, GREENE1, NAVYE1 (200 total pre-filled tubes).	RAINBOWE1	330
Bead Lysis Kit variety set. 1 each of PINKE1-RNA, REDE1-RNA, GREENE1-RNA, NAVYE1-RNA (200 total pre-filled tubes).	RAINBOWE1-RNA	397
Bead Lysis Kit variety set. 1 each of PINKR1, REDR1, GREENR1, NAVYR1 (200 total pre-filled tubes).	RAINBOWR1	340
Bead Lysis Kit variety set. 1 each of PINKR1-RNA, REDR1-RNA, GREENR1-RNA, NAVYR1-RNA (200 total pre-filled tubes).	RAINBOWR1-RNA	406
1.5mL Eppendorf Safe-Lock tubes prefilled with stabilized ceramic beads.	REDE1	130
1.5mL Eppendorf Safe-Lock tubes prefilled with stabilized ceramic beads. RNase free.	REDE1-RNA	148
1.5mL RINO screw-cap tubes prefilled with stabilized ceramic beads.	REDR1	133
1.5mL RINO screw-cap tubes prefilled with stabilized ceramic beads. RNase free.	REDR1-RNA	151
Screw-cap tubes with caps for use in microcentrifuge style Bullet Blenders. Sterile, RNase & DNase free.	TUBE1.5AX-S	187
Snap-cap tubes for use in microcentrifuge style Bullet Blenders. Non-sterile.	TUBE1EP5	118
Snap-cap tubes for use in microcentrifuge style Bullet Blenders (except STORM). Non-sterile.	TUBE2EP	120
Snap-cap tubes for use in microcentrifuge style Bullet Blenders (except STORM). Sterile, RNase & DNase free.	TUBE2EP-S	140
Skirted screw-cap 50mL tubes with caps for use in BB50-DX Bullet Blenders. Non-sterile.	TUBE50AX	182
Skirted screw-cap 50mL tubes with caps for use in BB50-DX Bullet Blenders. Sterile, RNase & DNase free.	TUBE50AX-S	252
Skirted screw-cap 5mL tubes with caps for use in 5mL Bullet Blenders. Non-sterile.	TUBE5AX	162
Skirted screw-cap 5mL tubes with caps for use in 5mL Bullet Blenders. Sterile, RNase & DNase free.	TUBE5AX-S2	171

Other bead sizes and various tubes also available – please inquire!



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