

Bead Beating Tubes

For rapid and reliable biological sample lysis of a wide variety of sample types

- ✓ Efficient & consistent hands-off sample homogenization
- ✓ Compatible with all bead beating machines

Bead beating is the most effective and versatile biological sample lysis method available. MO BIO offers you the ultimate flexibility when lysing and processing virtually any biological sample. Choose from either optimized kits that employ the bead beating lysis method or individual bead tubes for designing your own sample disruption and lysis protocols.



Small Bead Beating Tubes (2.0 ml and 0.5 ml)

Catalog No.	Description	Quantity
13117-50	2.38 mm Metal Bead Tubes	50 x 2.0 ml
13114-50	2.38 mm Ceramic Bead Tubes	50 x 2.0 ml
13113-50	1.4 mm Ceramic Bead Tubes	50 x 2.0 ml
13116-50	0.5 mm Glass Bead Tubes	50 x 2.0 ml
13118-50	0.1 mm Glass Bead Tubes	50 x 2.0 ml
13121-50	0.25 mm Carbide Bead Tubes	50 x 0.5 ml
13122-50	0.15 mm Garnet Bead Tubes	50 x 2.0 ml
13123-50	0.7 mm Garnet Bead Tubes	50 x 2.0 ml

Metal Bead Tubes (2.38 mm): these high density metal beads are particularly effective in grinding difficult samples and are made with Tough Tubes, the strongest tubes available on the market. Great for plant and seed samples.

Ceramic Bead Tubes (1.4 mm & 2.8 mm): strong and inert, ceramic beads are versatile for human, animal and plant tissue. The large 2.8 mm bead tubes are made with Tough Tubes and can be used to process challenging samples such as bone. The 1.4 mm small ceramic beads are perfect for low buffer and sample volumes.

Glass Bead Tubes (0.5 mm & 0.1 mm): these glass beads are ideal for breaking open microorganisms such as bacteria, fungi, yeast, and spores and are available in two sizes.

Carbide Bead Tubes (0.25 mm): the carbide matrix is highly effective when isolating RNA from microbes or soil. The beads have an average size of 0.25 mm.

Garnet Bead Tubes (0.15 mm & 0.70 mm): garnet matrix achieves sample disruption faster than other beads due to the fact that particles have sharp cutting edges and give optimal results with just a vortex. These inert mineral particles do not bind nucleic acids.

Related Products

PowerLyzer™ 24 Bench Top Bead-Based Homogenizer

Efficient and complete sample homogenization and lysis



The PowerLyzer™ 24 Bench Top Bead-Based Homogenizer is a bead beating instrument uniquely designed for the most efficient and complete lysis and homogenization of nucleic acids from even the toughest biological samples.

PowerLyzer™ 24 Bench Top Bead-Based Homogenizer, (110/220V) - Cat #13155

Vortex Genie® 2 Vortex

Variable speed laboratory mixer



The Vortex Genie® 2 Vortex blends fluids quickly and thoroughly using true vortex action that prevents spilling, even when tubes are uncapped. The Vortex Genie® 2 Vortex is supplied with a pop-off quick change standard cup and a 3-inch (7.6 cm) platform head. Additional **adapters** for processing multiple tubes are available separately. (See next page)

Vortex Genie® 2 vortex (120V) - Cat# 13111-V
Vortex Genie® 2 vortex (220V) - Cat# 13111-V-220

Which Bead Tube works best with each sample?

		Garnet 0.70 mm*	Garnet 0.15 mm*	Carbide 0.25 mm*	Ceramic 2.8 mm	Ceramic 1.4 mm	Metal 2.38 mm	Glass 0.5 mm	Glass 0.1 mm
Tissue	Tissue	V			V,B		V,B		
	Skin	V			V,B		V,B		
	Hair	V					V,B		
	Nail	V					V,B		
	Bone				V,B		V,B		
	Lung	V			V,B				
	Muscle				V,B		V,B		
	Liver	V			V,B				
	Brain	V				V,B			
	Heart				V,B		V,B		
	Kidney	V				V,B			
	Gonad	V				V,B			
	Insect/ Fly				V,B		V,B		
	Insect/ Tick						V,B		
Microbial	Bacteria		V,B					V,B	V,B
	Yeast		V,B			V,B		V,B	V,B
	Gram +		V,B					V,B	V,B
	Gram -		V,B					V,B	V,B
	Fungi/Mold		V,B					V,B	V,B
	Spores		V,B					V,B	V,B
Plant	Soft Plant Tissue	V					V,B		
	Tough Plant Tissue				B		V,B		
	Seeds				B		V,B		
	Stems				B		V,B		
	Corn						V,B		
	Nuts						V,B		
	Rice						V,B		
	Wheat	V					V,B		
	Leaves	V			B		V,B		
	Arabidopsis	V			B		V,B		
Soil	Soil	V				V,B			
	Coral	V					V,B		
	Marine Sediments	V							
	Sludge	V							
Fecal	Fecal/Stool	V				V,B			
	Scat	V				V,B	V,B		
RNA	Tissue RNA				B		B		
	Microbial RNA			V					
	Plant RNA				B		B		
	Soil RNA			V					

Recommended Methods: (V)=Vortex and vortex adapter; (B)=Bead beating instrument such as the Powerlyzer™ 24 homogenizer; (V,B) = Either method

Related Products

Vortex Adapters

Adapters for shaking tubes of various sizes using the Vortex Genie® 2 Vortex

Vortex Adapters are available for 1.5-2.0 ml microfuge, and 5 ml, 15 ml, and 50 ml tubes for bead beating, long mixing times, and custom applications.



Vortex Adapter 13000-V1-24
Holds 24 (1.5 - 2.0 ml) Tubes



Vortex Adapter 13000-V1-5
Holds 6 (5.0 ml) Tubes



Vortex Adapter 13000-V1-15
Holds 4 (15 ml) Tubes



Vortex Adapter 13000-V1-50
Holds 2 (50 ml) Tubes