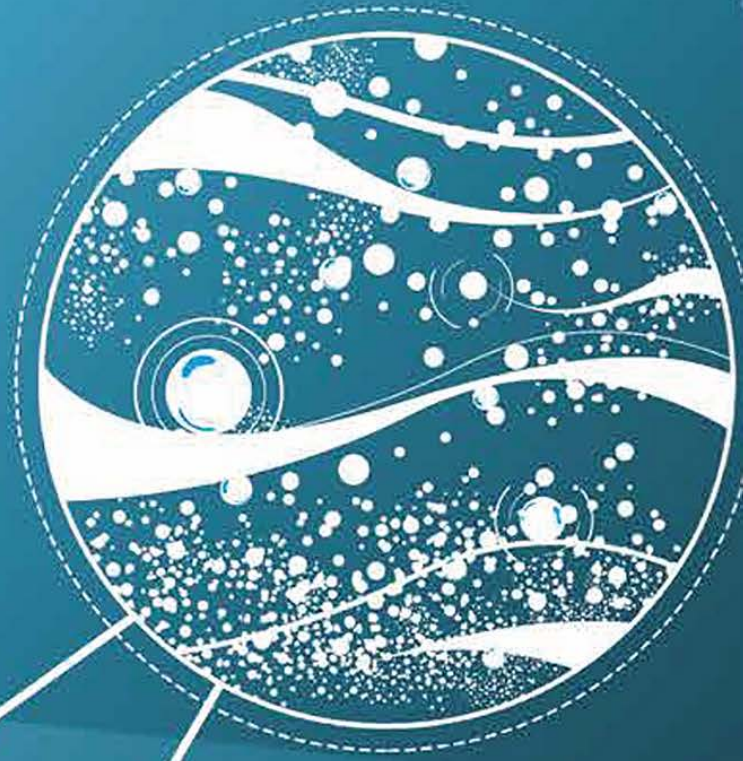




Bead Mill Homogenizers

Bead mills are an ideal solution for high throughput disruption of tough and fibrous samples. Bead Ruptor bead mills are designed to disrupt both soft and hard samples by shaking the sample in a tube pre-filled with beads. Sample disruption is accomplished by multiple high intensity collisions between the sample and bead matrix.

Bead mill homogenizers allow for closed vessel and multiple sample processing with no risk of cross-contamination.



OMNI
BEAD RUPTOR
24

19°C
01:10
RESEV



RUN

STOP



OMNI INTERNATIONAL, INC.
www.omni-inc.com



BEAD MILL HOMOGENIZERS

Bead Mill Homogenizers ///

OMNI BEAD RUPTOR 4 — Mini Bead Mill Homogenizer

The Omni **Bead Ruptor 4** is the newest addition to Omni's line of bead mill homogenizers. Built upon the innovative design and unsurpassed quality of Omni's Bead Ruptor family, the Bead Ruptor 4 provides powerful performance in a compact design.

Using disposable sample tubes pre-filled with a variety of lysing beads, the Bead Ruptor vigorously and uniformly shakes the tubes providing efficient, consistent, high-yield and quality homogenization usually in less than 30 seconds.

The Omni Bead Ruptor 4 is an ideal solution for releasing DNA, RNA, proteins, enzymes, etc. from very tough and small samples while still retaining molecular integrity.



PRODUCT FEATURES: CE

- Homogenizing up to 4 samples in seconds
- Reproducible extraction of proteins and nucleic acids
- Interchangeable 7 mL tube carriage
- Simultaneously processing 4 x 0.5 mL, 4 x 1.5 mL, 4 x 2 mL or 1 x 7 mL sample
- Broad performance range — gentle mixing to high force homogenization
- Small footprint — requires minimal bench space
- 1-year warranty

Omni Bead Ruptor 4 Mini Bead Mill Homogenizer

Includes Bead Ruptor 4 with integrated 0.5mL, 1.5mL and 2mL tube carriage, 7mL tube carriage, tool kit and User Manual. *Bead Ruptor disposable tubes and bead kits sold separately.*

Description	Order #
Omni Bead Ruptor 4 Mini Bead Mill Homogenizer	25-010



Bead Mill Homogenizers ///

OMNI BEAD RUPTOR 12

The **Omni Bead Ruptor 12** is the most powerful and quickest economical bead mill homogenizer available today. The Bead Ruptor 12 is designed with a unique tube carriage motion to ensure that the intra-tube bead movement reduces swirling and results in a high bead impact force. The Bead Ruptor 12 is more powerful than competing bead mills that are twice the cost making it an excellent solution for any lab working with tissues or cellular material.

The Bead Ruptor 12 eliminates the tedious task of screwing down finger plates. The patent pending snap-in tube carriage allows tubes to be “snapped in” and “snapped out” easily, thus decreasing workload and increasing safety. The Bead Ruptor 12 is an ideal bead mill for core laboratories or as a shared resource.



PRODUCT FEATURES:

- Simultaneously homogenize up to 12 x 2mL or 0.5mL tubes
- Convenient front-loading tube holder position for ease of use and optimal bead/sample interactions
- Processing range is ideal for soft tissue samples
- No cool-down required between runs = non-stop processing
- Disposable tubes ensure no threat of cross-contamination
- Small footprint to maximize bench space
- 1-year warranty

Omni Bead Ruptor 12 Bead Mill Homogenizing System

Includes Bead Ruptor 12 Drive Unit, Tube Carriage and User Manual. *Bead Ruptor bead tubes sold separately.*

Description	Order #
Omni Bead Ruptor 12 Bead Mill Homogenizing System	19-050

Omni Bead Ruptor 12 and 24 – 4 x 1.5 mL Microtube Adaptor

1.5 mL microtube adaptor fits in 7 mL tube carriage on Bead Ruptor 12 and 24. Allows 1.5 mL microtubes to be processed.

Description	Order #
Bead Ruptor 12 and 24 Microtube Adaptor, 4-pack	19-353-0150





BEAD MILL HOMOGENIZERS

Bead Mill Homogenizers ///

OMNI BEAD RUPTOR 24

The **Omni Bead Ruptor 24** is the most advanced and powerful bead mill homogenizer available. It is designed for grinding, lysing, and homogenizing biological samples prior to molecular extraction. Available with a wide range of accessories the Bead Ruptor 24 enables processing of samples in volumes ranging from 0.5 mL to 50 mL. The optional Bead Ruptor 24 Cryo Cooling Unit is designed to prevent the increase of sample temperature during the homogenization process.



The Bead Ruptor 24 unique tube carriage motion coupled with sample specific bead beating materials ensure that a thorough homogenate is achieved regardless of the sample type. The high lysing efficiency of the Bead Ruptor 24 results in an increase in nucleic acid, protein and small molecules yields and increases the sensitivity of the downstream assay.

PRODUCT FEATURES:

- Wide range of accessories for any sample size - 24 x 0.5 mL, 24 x 1.5 mL, 24 x 2 mL, 12 x 7 mL, 3 x 15 mL, 6 x 30 mL, 3 x 50 mL, or 96-well strip well tubes.
- Most powerful bead mill on the market – homogenize the most challenging samples
- No cool down required between runs: process hundreds of samples per day
- Convenient front loading design, 99 programmable memory settings, and multilingual user interface
- Ideal homogenizer for extraction of DNA, RNA, proteins, and small molecules

Omni Bead Ruptor 24 Bead Mill Homogenizing System

Includes Bead Ruptor 24 motor drive and User Manual. *Bead Ruptor tube carriages and disposable tubes sold separately.*

Description	Order #
Omni Bead Ruptor 24 Bead Mill Homogenizing System	19-040

Bead Ruptor Rack

This optional Bead Ruptor Rack is available for storage of 3 loaded 1.5 mL or 2 mL Tube Carriages before and after processing. Rack and Tube Carriages sold separately. *Note: Not compatible with the 7ml, 15 mL, 30 mL and 50 mL tube carriages or 96 strip carriage. Can be refrigerated for precooling samples.*

Description	Order #
Bead Ruptor Rack	19-010-604





Bead Mill Homogenizer Accessories ///

For use with Bead Ruptor 24 Bead Mill

The Bead Ruptor 24 is sold as a customizable system. At least 1 tube carriage is required to operate the Omni Bead Ruptor 24.



96 Strip Well Tube Carriage ** Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
96 Strip Well Tube Carriage	96 x 1.2 mL tubes	19-010-330



1.5 mL Microtube Carriage Kit

Description	Volume	Order #
1.5 mL Microtube Carriage Kit with Finger Plate	24 x 1.5 mL tubes	19-010-3105
Replacement 1.5 mL Microtube Carriage	24 x 1.5 mL tubes	19-309-025



2 mL Tube Carriage Kit

Description	Volume	Order #
2 mL Tube Carriage Kit with Finger Plate	24 x 2 mL or 24 x 0.5 mL tubes	19-010-310
Replacement 2 mL Tube Carriage	24 x 2 mL or 24 x 0.5 mL tubes	19-010-30902



7 mL Tube Carriage Kit ** Patent pending.*

Description	Volume	Order #
7 mL Tube Carriage Kit with Lock Ring	12 x 7 mL tubes	19-345-007
Replacement 7 mL Tube Carriage	12 x 7 mL tubes	19-345-107



15 mL Tube Carriage Kit ** Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
15 mL Tube Carriage Kit with Lock Ring	3 x 15 mL tubes	19-345-015
Replacement 15 mL Tube Carriage	3 x 15 mL tubes	19-345-115



30 mL Tube Carriage Kit ** Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
30 mL Tube Carriage Kit with Lock Ring	6 x 30 mL tubes	19-345-035
Replacement 30 mL Tube Carriage	6 x 30 mL tubes	19-345-135



50 mL Tube Carriage Kit ** Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
50 mL Tube Carriage Kit with Lock Ring	3 x 50 mL tubes	19-345-050
Replacement 50 mL Tube Carriage	3 x 50 mL tubes	19-345-150



BEAD MILL HOMOGENIZERS

Bead Mill Homogenizer Accessories ///

BR-CRYO COOLING UNIT — For use with the Bead Ruptor 24

The **BR-Cryo Cooling Unit** is compatible with the Bead Ruptor 24 and is designed to prevent the increase of sample temperature during the homogenization process. Friction generated through the bead milling process generates heat that is imparted to the sample. In order to maintain a constant processing temperature during homogenization, the BR-Cryo passes chilled air (-100°C to -50°C) into the sample processing chamber and across the sample tubes to dissipate heat.

PRODUCT FEATURES:

- Adjustable cooling rate
- Compatible with liquid nitrogen or dry ice with ethanol
- BR-Cryo maintains sample temperatures from 4°C to ambient
- Prevent protein degradation
- Ensure RNA stability
- Prevent enzyme activation
- 1-year warranty



Bead Ruptor BR-Cryo Cooling Unit

The BR-Cryo Cooling Unit keeps samples cool before, after & during processing. Used with liquid nitrogen or dry ice, it maintains a consistent temperature for heat sensitive samples. Compressed air travels through a heat exchanger, where liquid nitrogen or dry ice cool the air prior to moving it across the sample tubes. *Please note: Compressed air and liquid nitrogen or dry ice are required to operate the Cryo Cooling Unit. Some assembly required. Not compatible with Bead Ruptor 4, Bead Ruptor 12, Bead Ruptor 24 (15 mL, 30 mL, 50 mL and 96 strip tube carriages).*



Description	Order #
BR-Cryo Cooling Unit	19-8010



Pre-filled Bead Mill Tubes ///

BEAD MILL HOMOGENIZER SUPPLIES

Bead Media	Tube Size	Bead Size	Description	Quantity	Order #	Bead Ruptor Compatibility		
						BR4	BR12	BR 24
Glass	2 mL	0.1 mm	Micro-Organism Lysing Mix	50	19-621	■	■	■
		0.5 mm	Tough Micro-Organism Lysing Mix	50	19-622	■	■	■
Garnet	0.5 mL	0.15 mm	Small Volume Micro-Organism Lysing Mix	50	19-623	■	■	■
	2 mL	0.7 mm	Hard & Fibrous Tissue Homogenizing Mix	50	19-624	■	■	■
Carbide	0.5 mL	0.25 mm	RNA Extractions, Micro-Organism & Soil Homogenizing Mix	50	19-625	■	■	■
	1.5 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-610	■	■	■
Metal	2 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-620	■	■	■
	7 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-670	■	■	■
			Hard Tissue Grinding Mix	50	19-6350	■	■	■
	30 mL	2.4 mm	Hard Tissue Impaction Grinding Mix with 1/4" Ceramic	50	19-6350Z	■	■	■
Ceramic	0.5 mL	1.4 mm	Small Volume Soft Tissue Homogenizing Mix	50	19-626	■	■	■
	1.5 mL	1.4 mm	Soft Tissue Homogenizing Mix	50	19-617	■	■	5 m/s
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-618	■	■	■
	2 mL	1.4 mm	Soft Tissue Homogenizing Mix	50	19-627	■	■	■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-628	■	■	■
	7 mL	1.4 mm	Soft Tissue Homogenizing Mix	50	19-677	■	■	■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-678	■	■	■
	15 mL	2.8 mm	Hard Tissue Homogenizing Mix	50	19-6158	■	■	■
			Soft Tissue Homogenizing Mix	50	19-6350	■	■	■
	30 mL	1.4 mm	Soft Tissue Impaction Homogenizing Mix with 1/4" Ceramic	50	19-6357Z	■	■	■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-6358	■	■	■
			Hard Tissue Impaction Homogenizing Mix with 1/4" Ceramic	50	19-6358Z	■	■	■
50 mL	2.8 mm	Hard Tissue Homogenizing Mix	50	19-6508	■	■	■	



Bulk kits /// Kits containing bulk tubes and bulk beads (tubes are not pre-filled with beads)

Bead Media	Tube Size	Bead Size	Bead Quantity	Description	Quantity	Order #
Glass	7 mL	0.1 mm	400 g	Micro-Organism Lysing Mix	50	19-654
		0.5 mm	400 g	Tough Micro-Organism Lysing Mix	50	19-656
Metal	7 mL	2.4 mm	500 g	Hard Tissue Grinding Mix	50	19-655
	30 mL	2.4 mm	500 g	Hard Tissue Grinding Mix	50	19-6350K
Ceramic	7 mL	1.4 mm	325 g	Soft Tissue Homogenizing Mix	50	19-652
		2.8 mm	325 g	Hard Tissue Homogenizing Mix	50	19-653
	30 mL	1.4 mm	325 g	Soft Tissue Homogenizing Mix	50	19-6357K
		2.8 mm	325 g	Hard Tissue Homogenizing Mix	50	19-6358K





BEAD MILL HOMOGENIZERS

Bulk Bead Mill Tubes ///

BEAD MILL HOMOGENIZER SUPPLIES

Tube Selection Guide

Tube Size	VOLUME RANGE						
	20 µL	100 µL	1 mL	5 mL	15 mL	30 mL	50 mL
0.5 mL	20 µL - 300 µL						
1.2 mL stripwell	20 µL - 800 µL						
1.5 mL	20 µL - 1.5 mL						
2 mL		100 µL - 1.8 mL					
7 mL			1 mL - 5 mL				
15 mL				5 mL - 15 mL			
30 mL					5 mL - 30 mL		
50 mL						5 mL - 50 mL	



Omni Bead Ruptor	Tube Size	Description	Quantity	Order #
Bead Ruptor 4 (25-010)	0.5 mL	Non-reinforced Tubes with caps	500	19-650
	1.5 mL	Polypropylene microtube, RNase, DNase free	500	19-661
Bead Ruptor 12 (19-050)	2 mL	Non-reinforced Tubes with caps	1,000	19-661-1000
		Reinforced Tubes with caps	500	19-647
Bead Ruptor 24 (19-040)	7 mL	Empty Tubes with caps	1,000	19-648
		Empty Tubes with caps	500	19-649
Bead Ruptor 24 (19-040)	1.2 mL	Rack of 96 Strip Well Tubes	500	19-651-500
	15 mL	Empty Tubes with caps	1,000	19-651
	15 mL	Empty Tubes with caps	100	19-696
	30 mL	Empty Tubes with caps	100	19-6615
	50 mL	Empty Tubes with caps	100	19-6615-500

Bulk beads /// For Omni Bead Mill Homogenizers, Certified RNase/DNase free

Bead Media	Bead Size	Bead Quantity	Description	Order #
Glass	0.1 mm	400 g	Fills 500 x 2 mL tubes	19-641
	0.5 mm	400 g	Fills 500 x 2 mL tubes	19-642
Garnet	0.15 mm	500 g	Fills 500 x 2 mL tubes	19-643
	0.7 mm	500 g	Fills 500 x 2 mL tubes	19-644
Ceramic	1.4 mm	325 g	Fills 500 x 2 mL tubes	19-645
	2.8 mm	325 g	Fills 500 x 2 mL tubes	19-646
Metal	2.4 mm	500 g	Fills 500 x 2 mL tubes	19-640





Bead Mill Tubes ///

BEAD MILL HOMOGENIZER SUPPLIES

Bead Selection Guide

SAMPLE TYPE	BEAD MEDIA						
	Glass		Garnet		Ceramic		Metal
	0.1 mm	0.5 mm	0.15 mm	0.7 mm	1.4 mm	2.8 mm	2.4 mm
Bacteria/ Cultured Cells	█						
Spores							
Yeast/Fungi							
Algae/Plankton							
Soft Soil/Sediment/ Waste Water			█				
Clay/Faeces/ Sludge				█			
Soft Tissues Brain, Liver, Kidney					█	█	
Hard Tissues Heart, Muscle, Skin						█	
Plant Material						█	
Dry Grinding							█
Dense Biological Material Hair, Bone, Seeds							█

