

Product Catalog



Great Science Starts Here®



OMNI
International
The Homogenizer Company®

Great Science Starts Here®

Innovative Solutions

Welcome to OMNI International.

OMNI International, Inc, with its headquarters in Kennesaw, Georgia, is a leading global manufacturer and distributor of laboratory sample prep products. OMNI sets the industry standard with an unmatched commitment to outstanding product design, reliable performance and an uniquely diversified solution based product line. Since 1956, the OMNI name has been synonymous with laboratory sample prep solutions. Referenced in over 10,000 peer reviewed scientific articles, OMNI International products can be found in laboratories worldwide and are relied on for trouble-free operation.

**OMNI products are designed and built in the United States
under ISO 9001 Quality Management Standards.**

Customer Service

Our staff of engineers and scientists are dedicated to finding solutions that qualify sample processing, reduce noise, and increase sample processing efficiency, while our Operations and Support teams work to ensure that we routinely exceed our customers' expectations. We are confident that you will find our products and service to be superior in every way.

**Discover the many benefits that OMNI has to offer at
omni-inc.com**



OMNI
International
The Homogenizer Company®

935 Cobb Place Blvd. NW
Kennesaw, GA 30144
Phone: 800.776.4431
Fax: 770.421.0206
E-mail: sales@omni-inc.com
www.omni-inc.com



PAYMENT OPTIONS
Purchase Orders
Check or Money Orders
Credit Cards:



Contents

Bead Mill Homogenizers	Pg.4
Pre-filled Bead Mill Tubes	Pg.14
Nucleic Acid Purification Kits.....	Pg.17
Rotor Stator Homogenizers	Pg.21
OMNI Tip™ Plastic Disposable Generator Probes	Pg.27
OMNI Mixer, Macro and Macro ES Homogenizing Systems.....	Pg.31
OMNI Prep 6 Sample Homogenizer	Pg.37
Prep 96 Automated Homogenizer Workstation	Pg.40
LH 96 Liquid Handling Automated Homogenizer Workstation	Pg.42
Ultrasonic Homogenizers	Pg.43
Manual Homogenizers.....	Pg.46

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.

Bead Ruptor Elite



Bead Ruptor Elite

The Bead Ruptor Elite 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 Elite enables processing of samples in volumes ranging from 0.5 mL to 50 mL. The optional Bead Ruptor Cryo Cooling Unit is designed to prevent the increase of sample temperature during the homogenization process.

The Bead Ruptor Elite 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 Elite 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.
- New touch screen interface.
- Optimate™ Software.
- 1-year warranty.

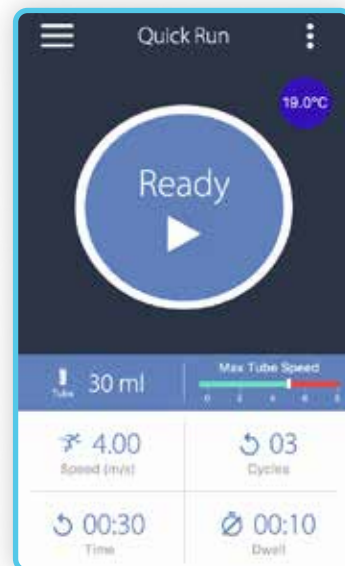
OMNI Bead Ruptor Elite Bead Mill Homogenizing System

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

Description	Order #
OMNI Bead Ruptor Elite Bead Mill Homogenizing System	19-040E

The most powerful and efficient homogenizer available.

Touch Screen Interface



Bead Mill Homogenizer Accessories

For use with Bead Ruptor Elite

96 Strip Well Tube Carriage ** Patent pending. Not compatible with the OMNI BR Cryo attachment*

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



1.5 mL Micro-tube Carriage Kit

Description	Volume	Order #
1.5 mL Micro-tube Carriage Kit with Finger Plate	24 x 1.5 mL tubes	19-010-310S
Replacement 1.5 mL Micro-tube Carriage	24 x 1.5 mL tubes	19-309-02S



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 the OMNI BR 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 the OMNI BR 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 the OMNI BR 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



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

BR Cryo Cooling Unit - For use with the Bead Ruptor Elite

The BR-Cryo Cooling Unit is compatible with the Bead Ruptor Elite 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 and 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 Elite (15 mL, 30 mL, 50 mL and 96 Strip Tube Carriages).

Description	Order #
BR-Cryo Cooling Unit	19-8005



Bead Ruptor 12

The 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: CE

- Simultaneously homogenize up to 12 x 2mL or 0.5mL and 4 x 7 mL tubes
- Convenient front-loading tube holder position for ease of use and optimal bead/sample interactions
- Processing range is ideal for soft and hard 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
- 99 programmable memory settings and multilingual user interface
- Program multiple processing and dwell cycles
- 1- year warranty

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	19-050A

Bead Ruptor 12 and Bead Ruptor Elite – 4 x 1.5 mL Micro-tube Adapter

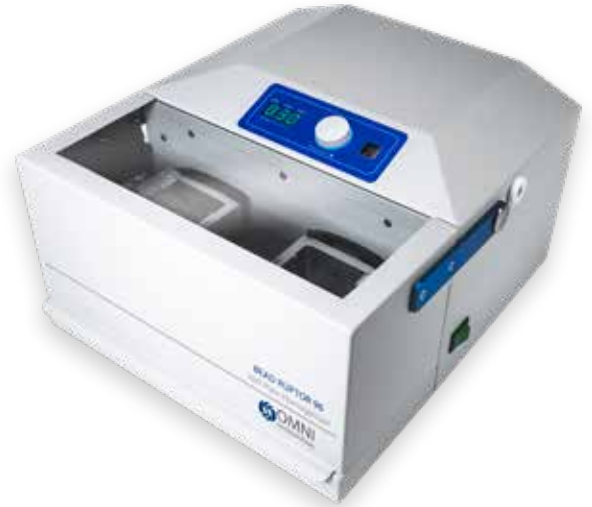
1.5 mL micro-tube adapter fits in 7 mL tube carriage on Bead Ruptor 12 and 24. Allows 1.5 mL micro-tubes to be processed.

Description	Order #
Bead Ruptor 12 and 24 Micro-tube Adapter, 4-pack	19-353-0150



Bead Ruptor 96 - Well Plate Homogenizer

The Bead Ruptor 96 is our most versatile homogenizer. The Bead Ruptor 96 is designed to support traditional milling, cryomilling, well plate and tube based bead homogenizing in a single, compact bench-top instrument. The Bead Ruptor 96 is ideal for labs requiring high-throughput bead mill processing with the capability to dissociate up to 384 samples per processing cycle. With the stainless steel jar accessories the Bead Ruptor 96 is capable of performing all milling applications, including dry grinding of grains, powder particle size reduction, dissociation of plastics, plants, seeds, paper products and drugs. In addition, with the cryogenic processing capabilities the Bead Ruptor 96 is ideal for cannabis processing, with the ability to rapidly dissociate cannabis flowers and edibles.



PRODUCT FEATURES: CE

- Multiple sample processing modes including:
 - Sealed stainless steel jar milling in volumes up to 50 mL
 - Cryogenic milling in stainless steel jars for dissociation of tough materials or heat sensitive analytes
 - Well plate homogenizing in standard SBS format 1 mL, 2 mL and standard well plates
 - Bead beating in sealed micro centrifuge or screw cap tubes up to 48 samples per run
- High throughput processing: Dissociate up to 384 samples per cycle
- Digital controls ensure reproducibility
- Large processing swath ensures high impact forces to dissociate even the toughest samples
- 30 Hz frequency ensures rapid sample processing
- Accessories for dry, wet or cryo-grinding
- Integrated safety lid
- Wide range of accessories including well plate adapters, tube holders and sealed jars for wet, dry or cryogenic milling

Bead Ruptor 96 Plate Mill Homogenizing System

Includes Bead Ruptor 96 motor drive and User Manual. *Bead Ruptor 96 tube holders and other accessories sold separately.*

Description	Order #
115V Bead Ruptor 96	27-0001
220V Bead Ruptor 96	27-0002

Well Plate Homogenizer Accessories

For use with the Bead Ruptor 96 Bead Mill

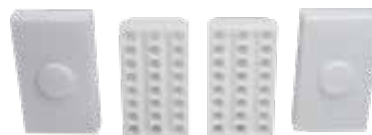
96 Well Plate Tube Carriage - ORDER NO. 27-101

Description	Volume
96 Well Plate attachment - set of two	2 x 2 mL deep well, 4 x 1 mL well plate or 6 x standard well plate



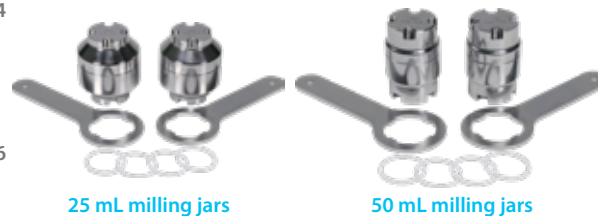
Micro-tube or Screw Cap tube holder - ORDER NO. 27-106

Description	Volume
Micro-tube or Screw Cap tube holder - set of two	48 x 1.5 mL or 48 x 2 mL screw cap tubes



25 mL milling jars - with set of 2 o-rings and wrenches - ORDER NO. 27-004

Description
25 mL milling jars - includes 2 x 25 mL milling jars, 4 x O-rings and 2 x milling wrench



25 mL milling jars

50 mL milling jars

50 mL milling jars - with set of 2 o-rings and wrenches - ORDER NO. 27-006

Description
50 mL milling jars - includes 2 x 50 mL milling jars, 4 x O-rings and 2 x milling wrench

10 mm milling balls - set of ten- ORDER NO. 27-203

Description
10 mm milling balls



10 mm milling balls

25 mm milling balls - set of five - ORDER NO. 27-206

Description
25 mm milling balls



25 mm milling balls

2 mL Well Plate - pre-filled 2 pack - ORDER NO. 27-6006 10 pack - ORDER NO. 27-6007

Description
2 mL Well Plate with sealing mats and pre-filled with .1 mm ceramic beads



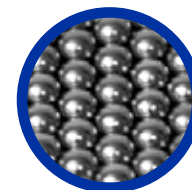
Pre-filled
2 mL Well Plate

2 mL Well Plate - pack of 50 - ORDER NO. 27-500

Description
2 mL Well Plate bulk pack of 50

Well Plate Sealing Mats - pack of 50 - ORDER NO. 27-510

Description
2 mL Well Plate Sealing Mats bulk pack of 50



5mm Stainless Steel Beads

5mm Stainless Steel Bead Media - 500 g - ORDER NO. 27-7005

Description
5 mm Stainless Steel Beads pack of 500 g

Well Plate Homogenizer Accessories

For use with the Bead Ruptor 96 Bead Mill

50 mL Tube Holders - set of 2 - ORDER NO. 27-1003

Description

8 place 50 mL Tube Holder set (Left and Right)



50 mL Tube Holders

96 Well 2D Bar coded Storage Tubes Adapter - set of two - ORDER NO. 27-107

Description

Micronic and Fluid X Tubes- set of two

96 Well 2D Bar coded Storage Tubes Adapter for Matrix™ Tubes - set of two - ORDER NO. 27-108

Description

Thermo Fisher Scientific Matrix, Micronic, and Fluid Tubes- set of two

Micronic 1.40



FluidX™



Micronic 1.10



Micronic 1.40



Thermo
Scientific
Matrix™



Bead Ruptor 4 - Mini Bead Mill Homogenizer

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 4 vigorously and uniformly shakes the tubes providing efficient, consistent, high-yield and quality homogenization usually in less than 30 seconds. The 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



For best results, use with OMNI International pre-filled bead kits



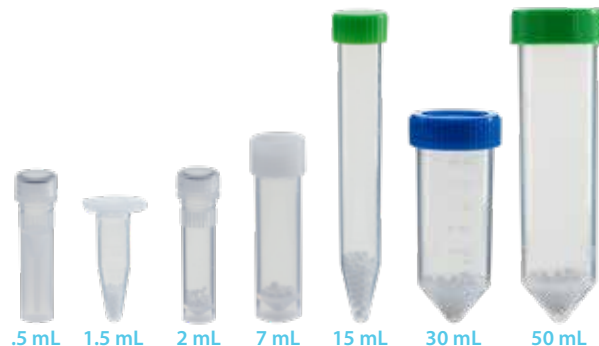
Pre-filled Bead Mill Tubes

Bead Media	Tube Size	Bead Size	Description	Quantity	Order #	Bead Ruptor Compatibility			DNase/Rnase Free	Microbial DNA Free
						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	■	■	■	■	
		0.5 mm	Tough Micro-Organism Lysing Mix	50	19-622D	■	■	■	■	■
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	■	■	■	■	
Metal	1.5 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-610	■			■	
	2 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-620	■	■	■	■	
		2.4 mm	Hard Tissue Grinding Mix	50	19-620D	■	■	■	■	■
	7 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-670	■	■	■		
	30 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-6350					
			Hard Tissue Impaction Grinding Mix with 1/4" Ceramic	50	19-6350Z			5 m/s		
	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	0.5 mm	Universal Microbial Grinding Mix - Nuclease Free	50	19-631	■	■	■	■	
		0.5 mm	Universal Microbial Grinding Mix - Nuclease and Microbial DNA Free	50	19-631D	■	■	■	■	■
		0.1 mm	Universal Microbial Grinding Mix - Nuclease Free	50	19-632	■	■	■	■	■
		0.1 mm	Universal Microbial Grinding Mix - Nuclease and Microbial DNA Free	50	19-632D	■	■	■	■	■
		1.4 mm	Soft Tissue Homogenizing Mix	50	19-627	■	■	■	■	■
Ceramic		1.4 mm	Soft Tissue Homogenizing Mix	50	19-627D	■	■	■	■	■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-628	■	■	■	■	
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-628D	■	■	■	■	■
	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				5 m/s		
			Soft Tissue Homogenizing Mix	50	19-6357			5 m/s		
	30 mL	1.4 mm	Soft Tissue Impaction Homogenizing Mix with 1/4" Ceramic	50	19-6357Z			5 m/s		
			Hard Tissue Homogenizing Mix	50	19-6358			5 m/s		
		2.8 mm	Hard Tissue Impaction Homogenizing Mix with 1/4" Ceramic	50	19-6358Z			5 m/s		
	50 mL	2.8 mm	Hard Tissue Homogenizing Mix	50	19-6508			5 m/s		

Bulk Bead Mill Tubes

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 strip-well	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	DNase/RNase Free	Order #
Bead Ruptor 4 (25-010)	0.5 mL	Non-reinforced Tubes with caps	500	<input checked="" type="checkbox"/>	19-650
	1.5 mL	Polypropylene micro-tube, RNase, DNase free	500 1,000	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	19-661 19-661-1000
Bead Ruptor 12 (19-050A)	2 mL	Non-reinforced Tubes with caps	500	<input checked="" type="checkbox"/>	19-647
		Reinforced Tubes with caps	500	<input checked="" type="checkbox"/>	19-648
Bead Ruptor Elite (19-040E)	7 mL	Empty Tubes with caps	500		19-651-500
			1,000	<input checked="" type="checkbox"/>	19-651
Bead Ruptor Elite (19-040E)	1.2 mL	Rack of 96 Strip Well Tubes	10 racks		19-696
	15 mL	Empty Tubes with caps	100		19-6615
			500		19-6615-500
	30 mL	Empty Tubes with caps	100		19-6635
			500		19-6635-500
50 mL	Empty Tubes with caps	100		19-6650	

Active Grinding Media

Active Grinding Media - 50 Pack ORDER NO. 19-900M

Active grinding media are ideal for grinding applications where beads or balls do not provide sufficient processing. Maximize sample capacity in 30 ml and 50 ml tubes (up to 5 grams). Assists in complete extraction of cannabinoids, grinding hard candies, vitamin tablets, seeds, and other hard substances.

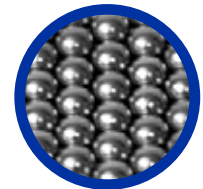


Low Binding Tubes

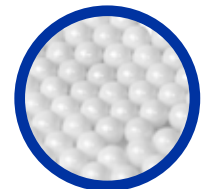
Bulk Beads

Bead Selection Guide

SAMPLE TYPE	BEAD MEDIA								
	Glass		Garnet		Ceramic				Metal
	0.1 mm	0.5 mm	0.15 mm	0.7 mm	.1 mm	1.4 mm	2.8 mm	6.5 mm	2.4 mm
Bacteria/ Cultured Cells	■	■			■				
Spores		■			■				
Yeast/Fungi		■			■				
Algae/Plankton		■			■				
Soft Soil/Sediment/ Waste Water			■		■				
Clay/Feces/ Sludge				■					
Soft Tissues Brain, Liver, Kidney						■	■		
Hard Tissues Heart, Muscle, Skin							■		
Plant Material							■		
Dry Grinding								■	■
Dense Biological Material Hair, Bone, Seeds								■	■



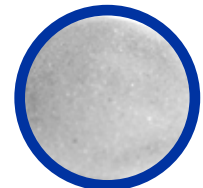
Metal



Ceramic



Garnet



Glass

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	0.1 mm	500 g	Fills 500 x 2 mL tubes	19-683
	0.5 mm	500 g	Fills 500 x 2 mL tubes	19-684
	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	6.5 mm	325 g	Fills 500 x 2 mL tubes	19-682
	2.4 mm	500 g	Fills 500 x 2 mL tubes	19-640

Nucleic Acid Purification Kits - Optimized for Bead Ruptor Homogenizers

The OMNI Bead Mill Nucleic Purification Kits are designed for use with OMNI Bead Ruptor Bead Mill homogenizers to extract DNA or RNA from bacterial cells, fungal cells or tissues. OMNI Nucleic Acid Purification Kits contain spin-column capture columns, pre-filled bead beating tubes and nontoxic reagents. The optimized reagents are designed specifically for sample dissociation through bead milling and ensure that high quality DNA and RNA is extracted in high yields. OMNI Pre-filled bead tubes contain an optimized amount of lysing matrix and are certified DNase/RNase free to ensure purified DNA/RNA is of the highest quality. DNA and RNA purified using the OMNI Bead Mill Nucleic Acid Purification Kits are ready for downstream applications such as PCR, RT-PCR, qPCR, Next Generation Sequencing and enzyme digestions.



Yeast DNA Kit

PRODUCT FEATURES:

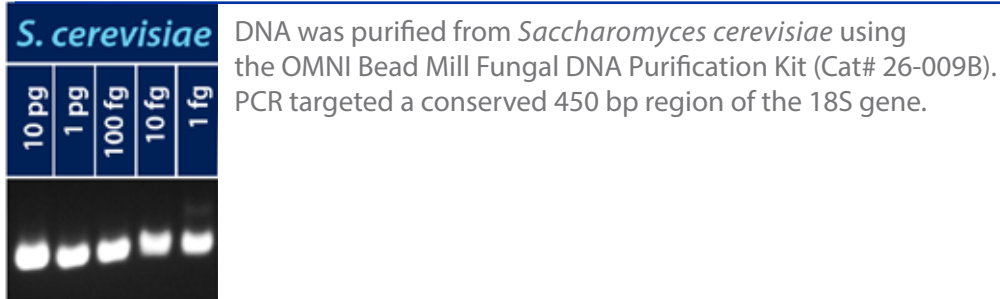
- Nucleic acid extraction kits designed specifically for bead mill homogenization.
- PCR inhibitors removed by specifically formulated inhibitor removal reagent.
- Rapid DNA and RNA isolation.
- Contains pre-filled certified DNase/RNase free bead tubes, spin-columns and extraction reagents.
- Non toxic reagents with no organic extractions.



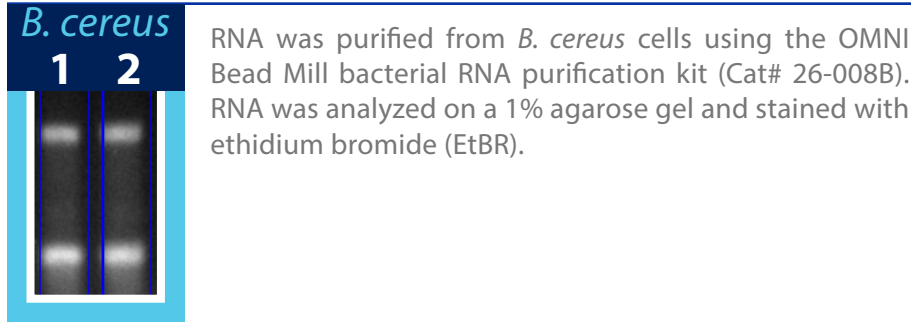
Nucleic Acid Purification Kits - Optimized for Bead Ruptor Homogenizers

Application Data

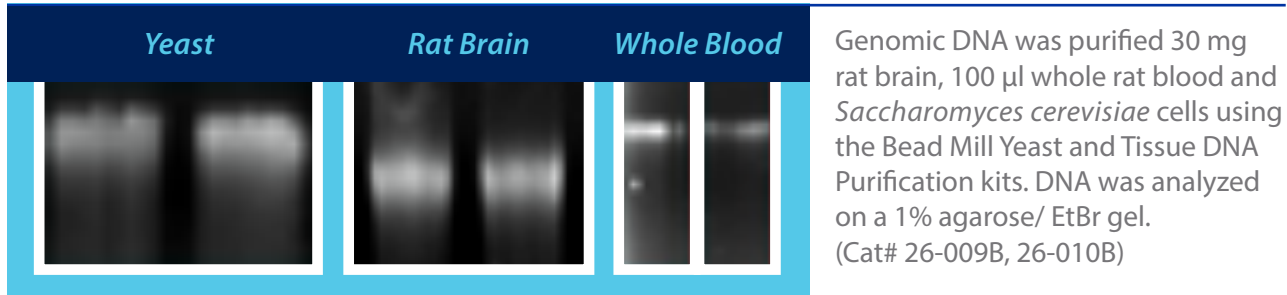
PCR PRODUCTS OBTAINED FROM DNA ISOLATION OF *S. CEREVISIAE*



HIGH QUALITY RNA PURIFIED FROM *BACILLUS CEREUS* CELLS



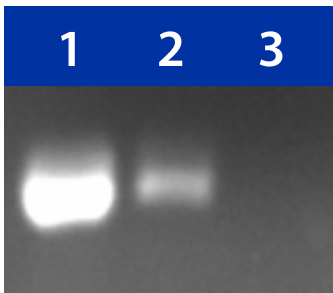
HIGH QUALITY DNA OBTAINED FROM EUKARGOTIC TISSUE AND CELLS



Nucleic Acid Purification Kits - Optimized for Bead Ruptor Homogenizers

REMOVAL OF PCR INHIBITORS FROM SOIL

Soil samples were inoculated with and without 20% humic acid, a common PCR inhibitor found in soil and feces. Genomic DNA was extracted using the Soil DNA Kit (Cat#26-013G). DNA was spiked with 70 ng of pGLO plasmid DNA with and without the inhibitor removal steps. The DNA mixture was then subjected to endpoint PCR and qPCR to detect the GFP gene (714 bp). No inhibition was detected from either of the extractions using the OMNI PCR inhibitor removal process. Inhibition was observed via PCR in samples without the use of the removal reagent. In addition, there is a significant increase in quality and end product with addition of inhibitor reagent.



(1) Humic Acid with Remover Reagent
(2) No Humic Acid without Remover Reagent
(3) Humic Acid without Remover Reagent



NEW! PLANT DNA PURIFICATION KIT

Designed for efficient recovery genomic DNA (up to 40 kB) from fresh, frozen, or dried plant tissue samples rich in polysaccharides or having a lower DNA content. Genomic DNA was recovered from 100 mg of fresh basil, 30 mg dried cannabis and 100 mg fresh sorghum using the Bead Mill Plant DNA Purification kit. (Cat# 26-023B)



Nucleic Acid Purification Kits - Optimized for Bead Ruptor Homogenizers

Includes Pre-filled bead tubes, nucleic acid extraction reagents, nucleic acid spin capture columns, collection tubes and user manual.

TARGET	PRODUCT	PREPS	CATALOG #	SAMPLE SIZE	PRE-FILLED BEAD TUBES
Genomic DNA	Tissue DNA Kit	50	26-007	Up to 30 mg tissue	
Genomic DNA	Bead Mill Tissue DNA Kit	50	26-007B	Up to 30 mg tissue	2 mL with 2.8 mm ceramic
Genomic DNA	Bacteria DNA Kit	50	26-008	Up to 3x10 ⁹ cells	
Genomic DNA	Bead Mill Bacteria DNA Kit	50	26-008B	Up to 3x10 ⁹ cells	2 mL with 0.1 mm ceramic
Genomic DNA	Yeast DNA Kit	50	26-009	Up to 3x10 ⁷ cells	
Genomic DNA	Bead Mill Yeast DNA Kit	50	26-009B	Up to 3x10 ⁷ cells	2 mL with 0.1 mm ceramic
RNA	Tissue RNA Kit	50	26-010	Up to 30 mg tissue	
RNA	Bead Mill Tissue RNA Kit	50	26-010B	Up to 30 mg tissue	2 mL with 2.8 mm ceramic
RNA	Bacteria RNA Kit	50	26-011	Up to 3x10 ⁹ cells	
RNA	Bead Mill Bacteria RNA Kit	50	26-011B	Up to 3x10 ⁹ cells	2 mL with 0.1 mm ceramic
RNA	Yeast RNA Kit	50	26-012	Up to 3x10 ⁷ cells	
RNA	Bead Mill Yeast RNA Kit	50	26-012B	Up to 3x10 ⁷ cells	2 mL with 0.1 mm ceramic
Genomic DNA	Bead Mill Soil DNA Kit	50	26-013G	Up to 0.25 g soil	2 mL with 0.1 mm ceramic
Genomic DNA	Bead Mill Soil Midi DNA Kit	50	26-013B	Up to 1 g soil	30 g bulk 0.1 mm ceramic
Genomic DNA	Bead Mill Fecal DNA Kit	50	26-014B	Up to 0.25 g feces	2 mL with 0.1 mm ceramic
Genomic DNA	Plant DNA Kit	50	26-023	Up to 30 mg of dried plant tissue Or 100 mg of fresh plant issue	
Genomic DNA	Bead Mill Plant DNA Kit	50	26-023B	Up to 30 mg of dried plant tissue Or 100 mg of fresh plant issue	2 mL with 2.8 mm ceramic

Rotor-stator Homogenizers

High shear laboratory homogenizers are designed to process tough samples quickly and efficiently without compromising the sample. Faster processing times mean less chance of heat degradation to the sample. These motors are available in hand-held or stand-mounted configurations with speeds of up to 35,000 rpm. Homogenizers are a standard piece of equipment for any lab. Not sure which configuration will work best for your application? Contact our technical support team at 1-800-776-4431.

GLH 850 General Laboratory Homogenizer

The GLH 850 is a powerful, versatile, and durable homogenizer that can handle virtually any processing application. Its high power motor can handle even the toughest tissue samples, and emulsions and dispersions are quickly and easily completed. The OMNI GLH 850 is compatible with stainless steel generator probes and OMNI Tip™ disposable probes (when used in conjunction with the A1000SB OMNI Tip™ Adapter). It has a processing range of 200 µL to 5 liters, and is the most versatile homogenizers available, in its class. We recommend stand mounting the GLH 850.

PRODUCT FEATURES: CE

- Powerful 850 watt motor with variable motor speed control from 5,000 to 25,000 rpm
- Compatible with 5, 7, 10, 20, 30 mm diameter stainless steel generator probes & OMNI Tip™ disposable probes (with an OMNI Tip™ Adapter)
- Process sample volumes of 200 µL to 5 L
- ¼ turn bayonet probe mounting system for quick connection and release of generator probes
- Programmable speed and time
- 2-year motor warranty

OMNI GLH 850 General Lab Homogenizer

Includes 850 watt motor, tool kit, cross rod and stand clamp for mounting and instruction manual.

OMNI Tips™ and stainless steel generator probes sold separately.

Description	Order #
110V OMNI GLH 850: General Lab Homogenizer (motor only)	20-010
220V OMNI GLH 850: General Lab Homogenizer (motor only)	20-020

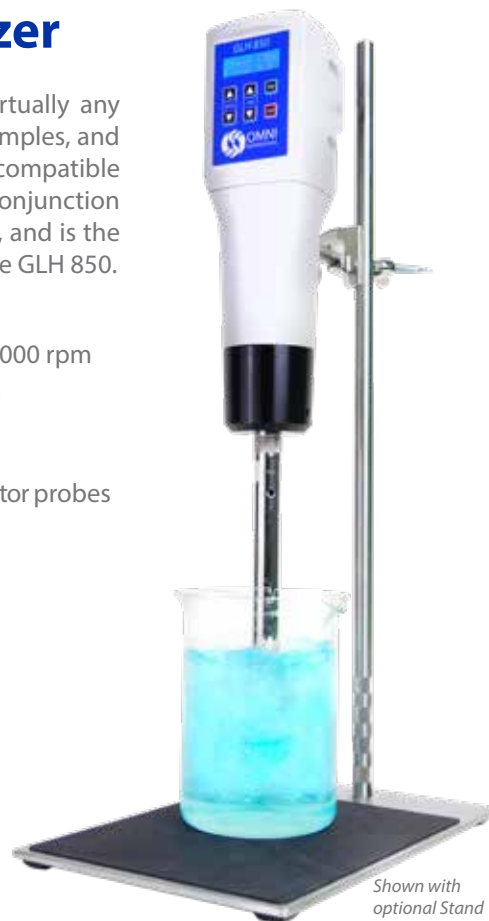
OMNI GLH 850 Homogenizer Package

Includes GLH 850 Motor, 3 Stainless Steel Generator Probes (10 x 115 mm saw tooth, 20 x 195 mm saw tooth, 30 x 195mm flat bottom) and Motor Stand Assembly (Order #S1000)

Description	Order #
110V Complete GLH 850 Package	20-010-P
220V Complete GLH 850 Package	20-020-P

Stand Assembly For post-mounted operation

Description	Order #
Optional Motor Stand Assembly	S1000



Shown with optional Stand Assembly (Order #S1000)



Tissue Homogenizer

The TH is a powerful tissue homogenizer that is designed to handle a wide range of samples from 0.20 mL to 100 mL. The TH can usually process a tissue sample in less than 30 seconds. It is compatible with a wide variety of stainless steel generator probes for flexibility in application requirements. Patented OMNI Tip™ Disposable Generator Probes, in both soft tissue and hard tissue versions, are available for customers concerned with cross-contamination. Stainless steel generator probes are recommended for larger and tougher sample types.

The TH will accommodate a wide range of applications such as tissue homogenization, emulsions and suspensions, cell disruption, protein extraction and medical research. It is lightweight enough to be hand-held and can also be mounted to a motor stand for convenience.

PRODUCT FEATURES: CE

- Powerful 150 watt motor
- Lightweight ergonomic design
- Quiet operation, under 72db
- ¼ turn bayonet probe mounting system for fast release
- Variable speed control from 5,000 to 35,000 rpm with separate power switch to maintain last speed setting
- Available in convenient OMNI Tip™ Homogenizing Kits
- Processing Range: 200 µL to 100 mL
- 1 year motor warranty

TH Tissue Homogenizer

Includes TH motor, tool kit, motor clamp for stand mounting, OMNI Tip™ Adapter and instruction manual. OMNI Tips™ and Stainless Steel Generator Probes sold separately.

Description	Processing Range	Order #
115V OMNI TH: Tissue Homogenizer (motor only)	200 µL - 100 mL	TH115
220V OMNI TH: Tissue Homogenizer (motor only)	200 µL - 100 mL	TH220

TH Homogenizer Package

Includes TH Motor, 3 stainless steel generator probes (5 x 75 mm flat bottom, 7 x 115 mm saw tooth, 10 x 115 mm saw tooth), motor clamp, stand assembly and OMNI Tip™ adapter.

Description	Order #
115V OMNI TH Homogenizer Package	THP115
115V OMNI TH & Motor Stand Assembly (no probes)	TH115-K
220V OMNI TH Homogenizer Package	THP220
220V OMNI TH & Motor Stand Assembly (no probes)	TH220-K
Stand Assembly includes baseplate and rod	S1000



Shown with optional Stand Assembly (Order #S1000)

THq

The THq is a digital homogenizer that can handle a wide range of samples from 0.20 mL to 120 mL. It provides reliable, repeatable performance with an ultra-quiet brush-less motor. An integrated digital speed control stores the last set speed for ultimate repeatability. The THq is compatible with OMNI Tip™ disposable generator probes, stainless steel generator probes from 5 mm to 12 mm diameter and hybrid generator probes. The THq is an ideal fit for a wide range of applications from tissue homogenization and dissociation, PD/PK studies, tablet disruption, emulsions and suspensions, cell disruption, food samples, and much more.

PRODUCT FEATURES: CE

- Three digit speed readout accurate to +/- <5% at top speed
- Integrated probe feedback to maintain consistent speed
- Whisper Drive Technology™ provides ultra quiet operation
- On-board memory stores last set speed
- ¼ turn bayonet probe mounting for fast release
- Compatible with OMNI Tip™ disposable probes, hybrid OMNI Tip™ probes and stainless steel generator probes
- Light weight ergonomic design
- Speed is adjustable in 500 rpm increments from 8,000 to 32,000 rpm
- 3 year motor warranty

OMNI THq Digital Hand-held Tissue Homogenizer

Includes THq motor, clamp for stand mounting, 6 Hard and 6 Soft OMNI Tip™ disposable generator probes, tool kit, post-clamp motor mount, instruction manual and storage case. *Stainless steel generator probes sold separately*

Description	Order #
OMNI THq Digital Hand held Tissue Homogenizer (universal voltage)	12-500

Stainless Steel Generator Probes are ideal for larger sample volume, larger initial sample tissue size, and tougher tissue types. Stainless steel probes are also resistant to most organic solvents commonly used during homogenization. Compatible with Micro Homogenizer, THq, Prep 96, LH 96 and OMNI Prep Homogenizers.

Description	Processing Range	Order #
5 mm x 75 mm Stainless Steel Probe	0.2 mL - 5 mL	B5-075
5 mm x 75 mm Stainless Steel Probes (6 pack)	0.2 mL - 5 mL	B5-075-6
7 mm x 110 mm Stainless Steel Probe	0.25 mL - 30 mL	B7-110ST
7 mm x 110 mm Stainless Steel Probe (6 pack)	0.25 mL - 30 mL	B7-110ST-6
10 mm x 110 mm Stainless Steel Probe	1.5 mL - 100 mL	B10-110ST
10 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 100 mL	B10-110ST-6
12 mm x 110 mm Stainless Steel Probe	1.5 mL - 125 mL	B12-110ST
12 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 125 mL	B12-110ST-6



Shown with optional Stand Assembly (Order #S1000)

Micro Homogenizer

The Micro Homogenizer is a hand-held battery powered rotor-stator homogenizer designed for use inside or outside of a laboratory setting. The Micro Homogenizer is powered by 12 volt lithium ion battery that provides operating speeds from 5,000 to 30,000 rpm for rapid homogenization of samples in volumes from 0.20 mL to 100 mL. It is an ideal solution for field based homogenization procedures involving the processing of tissues or soft plant material. Compatible with stainless steel generator probes from 5 mm to 10 mm or disposable 7 mm OMNI Tip™ disposable generator probes for customers concerned with cross contamination. Hybrid generator probes are also available for applications requiring the durability of stainless steel with the convenience and cleanliness of disposable probes.

PRODUCT FEATURES: CE

- Battery-driven cordless 35 watt motor
- Variable speed from 5,000 to 30,000 rpm
- Light weight portable homogenizer
- ¼ turn bayonet probe mounting for fast release
- Compatible with OMNI Tip™ disposable probes, hybrid probes and stainless steel generator probes
- 1 year motor warranty

Micro Homogenizer

Includes Micro Homogenizer motor, 12 volt battery, charging station, tool kit and instruction manual.
OMNI Tips™ and Stainless Steel Generator Probes sold separately

Description	Order #	Price (US\$)
115V OMNI Micro Homogenizer (motor only)	UHB-115	\$995
220V OMNI Micro Homogenizer (motor only)	UHB-220	\$995

Stainless Steel Generator Probes

Description	Processing Range	Order #
5 mm x 75 mm Stainless Steel Probe	0.2 mL - 5 mL	B5-075
5 mm x 75 mm Stainless Steel Probes (6 pack)	0.2 mL - 5 mL	B5-075-6
7 mm x 110 mm Stainless Steel Probe	0.25 mL - 30 mL	B7-110ST
7 mm x 110 mm Stainless Steel Probe (6 pack)	0.25 mL - 30 mL	B7-110ST-6
10 mm x 110 mm Stainless Steel Probe	1.5 mL - 100 mL	B10-110ST
10 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 100 mL	B10-110ST-6
12 mm x 110 mm Stainless Steel Probe	1.5 mL - 125 mL	B12-110ST
12 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 125 mL	B12-110ST-6



Tissue Master

The economically priced Tissue Master is well suited for customers who are homogenizing with little variation in sample size. The Tissue Master includes a stainless steel generator probe making it a great choice for a laboratory with many applications but a limited budget. *Please note: OMNI Tip™ Disposable Probes are not compatible with Tissue Master homogenizers.*

PRODUCT FEATURES: CE

- Includes choice of 5 mm, 7 mm or 10 mm stainless steel rotor stator probe
- Variable motor speed control from 5,000 to 35,000 rpm
- Most samples processed in under one minute
- Easy to disassemble and clean
- Portable and lightweight
- Hand-held or stand mountable
- Quiet operation, under 72 db
- Processing Range: 0.20 mL to 100 mL
- 1 year motor warranty

Tissue Master 125 Watt Homogenizer

Ideal for soft tissue applications and emulsions

Includes 125 watt motor, stainless steel generator probe & instruction manual

Description	Processing Range	Order #
115V OMNI Tissue Master 125 with 5 mm Probe	0.20 mL - 5 mL	TM125-115-05
115V OMNI Tissue Master 125 with 7 mm Probe	0.25 mL - 30 mL	TM125-115
115V OMNI Tissue Master 125 with 10 mm Probe	1.5 mL - 100 mL	TM125-115-10
220V OMNI Tissue Master 125 with 5 mm Probe	0.20 mL - 5 mL	TM125-220-05
220V OMNI Tissue Master 125 with 7 mm Probe	0.25 mL - 30 mL	TM125-220
220V OMNI Tissue Master 125 with 10 mm Probe	1.5 mL - 100 mL	TM125-220-10
Motor Stand Assembly - includes baseplate, post & three prong clamp		F22000

Tissue Master 125 Watt Homogenizer Package

Includes the Tissue Master 125 homogenizer motor and three stainless steel generator probes (5 mm, 7 mm & 10 mm)

Description	Processing Range	Order #
115V OMNI Tissue Master 125 Homogenizer Package	0.20 mL - 100 mL	TMP125-115
220V OMNI Tissue Master 125 Homogenizer Package	0.20 mL - 100 mL	TMP125-220

Tissue Master Generator Probes

Description	Processing Range	Order #
5 mm Tissue Master Probe	0.20 mL - 5 mL	F2107-05
7 mm Tissue Master Probe	0.25 mL - 30 mL	F2107
10 mm Tissue Master Probe	1.5 mL - 100 mL	F2107-10



Shown with optional stand assy (F22000)

OMNI Tips™ Disposable Generator Probes

Compatible with TH, THq, GLH 850, OMNI Prep, Prep 96 and LH 96

Patented OMNI Tip™ Generator Probes are designed to completely avoid cross-contamination between samples. They are engineered from a durable plastic and come in two different configurations for soft tissue and hard tissue. Designed for research involving critical samples at very small volumes, they prevent sample loss with a unique two-piece design and the clear stator tube. These tips are economical enough to allow for disposal after each use or they can be cleaned and autoclaved up to seven times. OMNI Tips™ offer a cost effective solution for customers processing highly sensitive samples where contaminants can affect test results.



PRODUCT FEATURES:

- Eliminate cross-contamination by disposal after use
- Ideal for PCR, DNA and RNA extraction
- Reusable and autoclavable (at 250°F/121°C) *
(Note: Polycarbonate outer tube can be compromised when using harsh reagents/solvents. May limit the number of times the OMNI Tip™ can be reused. Factors such as sample type, volume and reagent will determine number of uses.)
- Simple two piece construction for very easy cleaning
- Clear stator tube assures that valuable sample is not trapped or lost in probe
- 80% less protein residue after cleaning than with stainless steel generator probes
- Fraction of the cost of stainless steel generator probes
- Ideal and cost effective for processing multiple samples
- Outer tube comprised of polycarbonate and inner shaft made of Ultem *
(Note: Polycarbonate outer tube can be compromised when using harsh reagents/solvents. May limit the number of times the OMNI Tip™ can be reused. Factors such as sample type, volume and reagent will determine number of uses.)

OMNI De-aggregation Tips (7 mm diameter x 110 mm length)

For processing liquids, soft tissues, and samples that require gentle processing

Description	Order #
25 OMNI De-aggregation Tips	30750
50 OMNI De-aggregation Tips	32750
100 OMNI De-aggregation Tips	34750
500 OMNI De-aggregation Tips	35750
1,000 OMNI De-aggregation Tips	3M750

OMNI Hard Tissue Tips (7 mm diameter x 110 mm length)

For processing hard or frozen tissue samples

Description	Order #
25 OMNI Hard Tissue Tips	30750H
50 OMNI Hard Tissue Tips	32750H
100 OMNI Hard Tissue Tips	34750H
500 OMNI Hard Tissue Tips	35750H
1,000 OMNI Hard Tissue Tips	3M750H

*(Note: OMNI Tip™ Adapter (Order #A1000SB) required to use OMNI Tips™ with GLH and OMNI Tissue Homogenizers TH 115 and 220 **with black nose ring**)*

*(Note: OMNI Tip™ Adapter (Order #12-120) required to use OMNI Tips with OMNI Tissue Homogenizers TH 115 and 220 **(with blue nose ring)**)*

OMNI Tip™ Plastic Probes
Patent #6,398,402
Patent #6,863,431

NEW Sterile OMNI Tips™ now available

Electron Beam treated to ensure tips are free of contaminants



Sterile OMNI Tips™ Generator Probes, Hard Tissue 25 pack

ORDER #
30750H-S

Stainless Steel Generator Probes

Stainless Steel Generator Probes are ideal for larger sample volume, larger initial sample size, and tougher tissue types. They are also resistant to most organic solvents commonly used during homogenization.

All generator probes are available in titanium and custom sizes. Call for pricing.

Unsure about which probe to order?

Call 800-776-4431 or e-mail sales@omni-inc.com

OMNI Homogenizer	Diameter	Processing Range	Recommended Vessel Size	Length	Type	Resulting Particle Size	Order #
OMNI TH OMNI GLH 850	5 mm	0.20 mL - 5 mL	Vessel with a minimum inner diameter of 6 mm	75 mm	Flat bottom	Fine	G5-75
					Flat bottom - Wide Window	Coarse	G5-75W
	7 mm	0.25 mL - 30 mL	Vessel with a minimum inner diameter of 8 mm	115 mm	Saw Tooth	Fine	G7-115ST
					Saw Tooth - Wide Window	Coarse	G7-115 STW
	10 mm	1.5 mL - 100 mL	Vessel with a minimum inner diameter of 12.5 mm	115 mm	Saw Tooth	Fine	G10-115
					Saw Tooth - Wide Window	Coarse	G10-115W
	20 mm	50 mL - 2 L	Vessel with a minimum inner diameter of 22 mm	195 mm	Saw Tooth	Fine	G20-195ST
					Saw Tooth - Wide Window	Coarse	G20-195STW
	30 mm	75 mL - 10 L	Vessel with a minimum inner diameter of 37 mm	195 mm	Flat bottom	Fine	G-30NA-195
					Flat bottom - Wide Window	Coarse	G-30WA-195

5 mm

7 mm

10 mm

20 mm

30 mm

Compatible with Micro Homogenizer, TH_q, Prep 96, LH 96 and OMNI Prep Homogenizers.

Description	Processing Range	Order #
5 mm x 75 mm Stainless Steel Probe	0.2 mL - 5 mL	B5-075
5 mm x 75 mm Stainless Steel Probes (6 pack)	0.2 mL - 5 mL	B5-075-6
7 mm x 110 mm Stainless Steel Probe	0.25 mL - 30 mL	B7-110ST
7 mm x 110 mm Stainless Steel Probe (6 pack)	0.25 mL - 30 mL	B7-110ST-6
10 mm x 110 mm Stainless Steel Probe	1.5 mL - 100 mL	B10-110ST
10 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 100 mL	B10-110ST-6
12 mm x 110 mm Stainless Steel Probe	1.5 mL - 125 mL	B12-110ST
12 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 125 mL	B12-110ST-6

Stainless Steel Homogenizer Probe Disassembly Tool Kit

For use with generator probes listed above

Description	Order #
Stainless Steel Homogenizer Probe Disassembly Tool Kit	T1001

Homogenizing Kits

OMNI Tip™ Homogenizing Kits include everything you need to homogenize. These kits can be used to process samples with a range of 0.20 mL to 100 mL. They come complete with an OMNI TH motor, OMNI Tip™ adapter, 12 hard or soft tissue patented OMNI Tip™ disposable generator probes (7 mm x 110 mm), tool kit and a convenient storage box. The perfect solution for a small laboratory, this kit is cost effective and will process a wide range of applications for multiple users.

PRODUCT FEATURES:

- Ideal for applications requiring no cross-contamination, such as RNA, DNA extractions and PCR
- Variable speed controller from 5,000 to 35,000 rpm
- OMNI Tips™ are economical and can be disposed of after use or cleaned and reused multiple times
- Kits are also available with stainless steel generator probes for more fibrous/tough samples
- Processing Range with OMNI Tips™: 0.25 mL - 30 mL
- Processing Range with stainless steel probes: 0.20 mL - 100 mL



Description	Order #
115V OMNI Tip™ Kit with 6 Soft & 6 Hard Tissue Tips	TH115-PCR
220V OMNI Tip™ Kit with 6 Soft & 6 Hard Tissue Tips	TH220-PCR

Soft Tissue OMNI Tip Kit with 12 OMNI Tip™ Probes

For processing liquids, soft tissues

Description	Order #
115V Soft Tissue OMNI Tip™ Kit	TH115-PCRD
115V Soft Tissue OMNI Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH115-PCR5D
115V Soft Tissue OMNI Tip™ Kit with 7 x 115 mm Stainless Steel Generator Probe (G7-115ST)	TH115-PCR7D
115V Soft Tissue OMNI Tip™ Kit with 10 x 115 mm Stainless Steel Generator Probe (G10-115)	TH115-PCR10D
220V Soft Tissue OMNI Tip™ Kit	TH220-PCRD
220V Soft Tissue OMNI Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH220-PCR5D
220V Soft Tissue OMNI Tip™ Kit with 7 x 115 mm Stainless Steel Generator Probe (G7-115ST)	TH220-PCR7D
220V Soft Tissue OMNI Tip™ Kit with 10 x 115 mm Stainless Steel Generator Probe (G10-115)	TH220-PCR10D



Hard Tissue OMNI Tip Kit with 12 OMNI Tip™ Probes

For processing hard or frozen tissue samples

Description	Order #
115V Hard Tissue OMNI Tip™ Kit	TH115-PCRH
115V Hard Tissue OMNI Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH115-PCR5H
115V Hard Tissue OMNI Tip™ Kit with 7 x 115 mm Stainless Steel Generator Probe (G7-115ST)	TH115-PCR7H
115V Hard Tissue OMNI Tip™ Kit with 10 x 115 mm Stainless Steel Generator Probe (G10-115)	TH115-PCR10H
220V Hard Tissue OMNI Tip™ Kit	TH220-PCRH
220V Hard Tissue OMNI Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH220-PCR5H
220V Hard Tissue OMNI Tip™ Kit with 7 x 115 mm Stainless Steel Generator Probe (G7-115ST)	TH220-PCR7H
220V Hard Tissue OMNI Tip™ Kit with 10 x 115 mm Stainless Steel Generator Probe (G10-115)	TH220-PCR10H



OMNI Tip™ Hybrid Probes

The OMNI Tip™ Hybrid Probes combine the convenience of disposable generator probes with the durability of traditional stainless steel probes. Hybrid probes are made up of an outer stainless steel tube with an inner Ultem™ plastic shaft. The plastic shafts can either be disposed of after use or cleaned and reused multiple times. The simple two-piece design makes these probes much easier to clean and disassemble than traditional stainless steel probes.

Description	Processing Range	Order #
7 mm x 110 mm Hybrid Probe	0.2 mL - 30 mL	22-007
7 mm x 110 mm Hybrid Probes (6 pack)	0.2 mL - 30 mL	22-007-6
Replacement Shafts (25 pack)	0.2 mL - 30 mL	301725HT



Sealed Conical and Flat Bottom Tubes - OMNI Tips™ not included

Polypropylene conical bottom tubes with sealed caps are compatible with OMNI Tip™ disposable generator probes to reduce aerosolizing during the homogenization process. Tube caps contain a hole for insertion of the OMNI Tip™ into the tube.

Description	Order #
15 mL Plastic Conical Bottom Tubes with Sealed Caps (25 pack)	00-2015-25
50 mL Plastic Conical Bottom Tubes with Sealed Caps (25 pack)	00-2050-25
4 mL Glass Flat Bottom Tubes with Sealed Caps (25 pack)	00-2004-25
8 mL Glass Flat Bottom Tubes with Sealed Caps (25 pack)	00-2008-25



OMNI Tip™ Adapter

Required when using OMNI Tips™ with the OMNI GLH 850 Homogenizer and OMNI TH with a black nose ring.

Description	Order #
OMNI Tip™ Adapter	A1000SB

**OMNI Tip™ Adapter
(A1000SB)**
(For TH with
Black Nose Ring)



Required when using OMNI Tips™ with the OMNI TH with a blue nose ring.

Description	Order #
OMNI Tip Adapter	12-120

**OMNI Tip™ Adapter
(12-120)**
(For TH with
Blue Nose Ring)



OMNI Mixer and Macro Homogenizing Systems

Mixer and Macro Homogenizers offer the perfect mix of dependability, versatility and power. Sealed containers are available in a variety of materials (stainless steel, glass & plastic). Interchangeable blades and rotor-stator generators process a wide range of samples within the same container. Process sample volumes ranging from 0.25 mL to 30 L with speeds ranging from 500 to 20,000 rpm.

PRODUCT FEATURES: CE

- Powerful 600 or 1,800 watt motor
- Variable speed control 500 to 20,000 rpm
- Quiet operation
- Accessories include interchangeable generator probe and cutting blades for sealed chambers
- Accessories are compatible with all OMNI Mixers built within the last 60 years
- 3 year motor warranty

OMNI Mixer Homogenizer

Includes motor with variable speeds, motor stand assembly, generator probe adapter, tool kit and instruction manual.

*Aerosol Sealed Chambers and Generator Probes sold separately.**

- 600 watt motor with variable speeds from 500 to 18,000 rpm
- For processing 0.25 mL - 10 L



OMNI Mixer

OMNI Macro

Description	Order #
115V OMNI Mixer Homogenizer	17105
220V OMNI Mixer Homogenizer	17106

OMNI Macro Homogenizer

Includes motor with variable speeds, motor stand assembly, generator probe adapter, tool kit and instruction manual. *Aerosol Sealed Chambers and Generator Probes sold separately.**

- 1,800 watt motor with variable speeds from 1,000 to 20,000 rpm
- For processing 0.25 mL - 30 L

Description	Order #
115V OMNI Macro Homogenizer	17505
220V OMNI Macro Homogenizer	17506

Macro-ES - Programmable High Power Homogenizer

The Macro-ES Homogenizer is a programmable, 1,800 watt motor unit. It offers the perfect mix of programmability, versatility, and power. The digital speed display allows for additional reproducibility.

PRODUCT FEATURES: CE

- Compatible with all OMNI Mixer Accessories
- Powerful 1,800 watt motor
- Quick Connect coupling assembly included
- Ideal for lab automation, pilot scale or small batch applications
- Speed control from 1,000 to 20,000 rpm maintains constant speed over wide operating range for accurate (+/- 0.5%) repeatability
- Store up to 12 programs with multiple speed, time and ramp functions
- 32 digit alpha numeric display
- Movable platform stand
- 3 year motor warranty

OMNI Macro-ES Programmable Homogenizer

Includes 1,800 watt motor with variable speeds, motor stand assembly, Quick Connect coupling assembly, 2 Quick Connect adapters, generator probe adapter, tool kit and instruction manual. *Chamber Assemblies and Generator Probes sold separately.**

Description	Order #
115V OMNI Macro-ES Homogenizer	MES-115
220V OMNI Macro-ES Homogenizer	MES-220

OMNI Macro-ES Homogenizer Package

Includes Macro-ES and 3 Stainless Steel Generator Probes (20 x 195 mm saw tooth, 35 x 195 mm flat bottom, 45 x 195mm flat bottom)

Description	Order #
115V Complete Macro-ES Package	MESP-115
220V Complete Macro-ES Package	MESP-220



Stainless Steel Generator Probes

Designed for OMNI Mixer, Macro & Macro-ES Homogenizers

All generator probes are available in titanium and custom sizes. Call for pricing.

OMNI Homogenizer	Diameter	Processing Range	Recommended Vessel Size	Length	Type	Resulting Particle Size	Order #
OMNI Mixer (17105/17106)	10 mm	1.5 mL - 100 mL	Vessel with a minimum inner diameter of 12.5 mm	95 mm	Saw Tooth	Fine	15051
				195 mm	Saw Tooth	Fine	15010
	20 mm	50 mL - 2 L	Vessel with a minimum inner diameter of 22 mm	100 mm	Saw Tooth	Fine	15201
					Saw Tooth - Wide Window	Coarse	15201W
				145 mm	Saw Tooth	Fine	15401
					Saw Tooth - Wide Window	Coarse	15401W
30 mm	75 mL - 10 L	Vessel with a minimum inner diameter of 37 mm	195 mm	Saw Tooth	Fine	15020	
				Saw Tooth - Wide Window	Coarse	15020W	
				Flat bottom	Fine	150-30NA-195	
					Flat bottom - Wide Window	Coarse	150-30WA-195
OMNI Macro (17505/17506)	45 mm	200 mL - 25 L	Vessel with a minimum inner diameter of 47 mm	195 mm	Flat bottom	Fine	150-45NA-195
	OMNI Macro-ES (MES-115/220)	55 mm	300 mL - 30 L	Vessel with a minimum inner diameter of 57 mm	195 mm	Flat bottom	Fine

Generator Probe Accessories

Description	Order #
Stainless Steel Homogenizer Probe Disassembly Tool Kit	17104
Generator probe adapter (<i>one adapter is included with each motor</i>)	15001

10 mm

20 mm

30 mm

45 mm

55 mm



OMNI Mixer Accessories

For use with OMNI Mixer, Macro & Macro-ES Homogenizers

Quick Connect (QC) Coupling Assembly for OMNI Mixer, Macro, Macro ES

The Quick Connect Assembly makes the OMNI Mixer homogenizers even more convenient to use. It comes standard on the OMNI Macro-ES. To use, attach a Quick Connect adapter to your chamber assembly or generator probe. Next, slide the adapter into the Quick Connect Coupling and a retaining ring positions into place for a secure hold. To disconnect, simply slide the ring upward and the processing accessory is conveniently released.



Description	Order #
Quick Connect Kit (includes QC Assembly and 3 QC Adapters)	17215
Quick Connect Coupling (Requires one per motor unit)	17210
Quick Connect adapter (Requires one per generator or accessory)	17204

Aerosol Sealed Stainless Steel Chamber Assemblies

50 mL Sealed Stainless Steel Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	13 mL - 50 mL	17077
10 mm diameter generator probe for fine to medium particle sizes	15 mL - 50 mL	15050

400 mL Sealed Stainless Steel Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	90 mL - 400 mL	17079
20 mm diameter generator probe for fine to medium particle sizes	100 mL - 400 mL	15400

PRODUCT FEATURES:

- Fluted to reduce circular flow and enhance processing
- Polished interior to facilitate cleaning
- Available in titanium (Custom Order Only)

Custom configurations are also available. *Call for pricing.*

Note: Sealed chamber assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.



Aerosol Sealed Glass Chamber Assemblies

For use with OMNI Mixer, Macro & Macro-ES Homogenizers

Note: Sealed chamber assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.

50 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	25 mL - 50 mL	17064
10 mm diameter generator probe for fine to medium particle sizes	25 mL - 50 mL	15064

473 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	175 mL - 350 mL	17080
20 mm diameter generator probe for fine to medium particle sizes	150 mL - 350 mL	15080

946 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	225 mL - 700 mL	17081
20 mm diameter generator probe for fine to medium particle sizes	200 mL - 700 mL	15081
20 mm diameter generator probe for medium to course particle sizes	200 mL - 700 mL	15081W



Aerosol Sealed Plastic Chamber Assemblies

473 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	175 mL - 375 mL	17065
20 mm diameter generator probe for fine to medium particle sizes	180 mL - 375 mL	15065

946 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	250 mL - 800 mL	17097

1892 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	400 mL - 1350 mL	17098

Other chambers are available for special order. Contact OMNI for more details

Generator Probe Selection Guide

FOR ALL OMNI ROTOR-STATOR HOMOGENIZERS

OMNI Homogenizer		Part Number	VOLUME RANGE						Diameter	Length							
			10 mL	50 mL	100 mL	500 mL	2 L	10 L			25 L	50 L					
OMNI TH (TH115/220)	GLH (GLH-115/220)	G5-75	■							5 mm	75 mm						
		G5-75W	■							5 mm	75 mm						
		G7-115ST	■	■						7 mm	115 mm						
		G7-115STW	■	■						7 mm	115 mm						
		G10-115	■	■	■					10 mm	115 mm						
		G10-115W	■	■	■					10 mm	115 mm						
		G20-195ST			■	■	■				20 mm	195 mm					
		G20-195STW			■	■	■				20 mm	195 mm					
		G-30NA-195			■	■	■	■			30 mm	195 mm					
		G-30WA-195			■	■	■	■			30 mm	195 mm					
OMNI Mixer (17105/17106)	OMNI Macro (17505/17506)	OMNI Macro-ES (MES-115/MES-220)	15051	■	■	■						10 mm	95 mm				
			15051W	■	■	■							10 mm	95 mm			
			15010	■	■	■							10 mm	195 mm			
			15201			■	■	■						20 mm	100 mm		
			15201W			■	■	■						20 mm	100 mm		
			15401			■	■	■						20 mm	145 mm		
			15401W			■	■	■						20 mm	145 mm		
			15020			■	■	■						20 mm	195 mm		
			15020W			■	■	■						20 mm	195 mm		
			150-30NA-195			■	■	■	■					30 mm	195 mm		
			150-30WA-195			■	■	■	■					30 mm	195 mm		
			150-45NA-195					■	■	■				45 mm	195 mm		
			150-55NA-195					■	■	■	■			55 mm	195 mm		
			OMNI µHb (H115/H220)	OMNI TH ₀ (12-200)	OMNI TH _B (THB-01)	OMNI Prep (06-021)	B5-075	■								5 mm	75 mm
							B7-110ST	■	■								7 mm
B10-110ST	■	■					■								10 mm	110 mm	
22-007	■	■													7 mm	110 mm	
30750	■	■													7 mm	110 mm	
30750H	■	■													7 mm	110 mm	

OMNI Prep 6 sample Homogenizer

The OMNI Prep 6-Sample Homogenizer is designed to streamLine the labor and time intensive homogenization process. It features a brush-less motor that is virtually maintenance free, is ultra quiet during operation, and uses about 10% of the power required to process 6 samples individually.

An oscillating sample rack holds up to 6 tubes from 1.5 mL to 50 mL in size and emulates hand processing. Microprocessor control allows the user to program time (up to 10 minutes) and speed (500 - 30,000 rpm). Sample volumes of 0.25 mL to 50 mL can be homogenized using 5, 7 or 10 mm stainless steel generator probes or with OMNI Tip™ disposable generator probes.

OMNI Tips™ can be used to completely eliminate cross-contamination as well as the time consuming cleaning step associated with the use of stainless steel generator probes.



PRODUCT FEATURES: CE

- Process 6 samples per cycle and up to 250 samples per hour
- Utilizes OMNI Tip™ Generator Probes
- Compatible with stainless steel generator probes from 5 to 10 mm
- Microprocessor controlled with ability to store 3 programs
- Speed Control from 500 to 30,000 rpm
- Process most samples in less than 1 minute
- Positive airflow that can be exhausted to a HEPA-filter or Fume Hood
- Sealed and open vessel processing configurations
- Oscillating (up/down) rack for efficient processing of all size samples
- Clear door allows sample viewing and prevents splashing
- Optional ice tray for frozen samples
- Compact design: 15.7in. (40cm) x 7.8 in. (20cm) x 11.8 in. (30cm)
- 1 year motor warranty

OMNI Prep 6 Sample Homogenizer

Includes OMNI Prep Motor Drive Unit and User Manual.

Description	Order #
OMNI Prep Homogenizer	06-021

OMNI Prep Accessories

OMNI Prep Processing Rack

Movable for highly efficient processing. *Required for operating the OMNI Prep.*

Description	Order #
Processing Rack for OMNI Prep	06-220



Rack Tube Holder

Tube holders are available for 1.5-2 mL, 5 mL, 15 mL and 50 mL sample tubes. Custom tube holder size are also available. Each holder holds 2 samples tubes, therefore a total of 3 tube holders must be purchased. *Required for operating the OMNI Prep.*

Description	Order #
Rack Tube Holder for 1.5 - 2 mL	06-209-02
Rack Tube Holder for 5 mL	06-209-05
Rack Tube Holder for 15 mL	06-209-15
Rack Tube Holder for 50 mL	06-209-50

Ice Tray

Keeps frozen and sensitive samples cold during processing. *Rack sold separately.*

Description	Order #
Ice Tray for 1.5 mL - 2 mL Tubes	06-207
Ice Tray for 15 mL - 50 mL Tubes	06-210

Stainless Steel Generator Probes

Description	Order #
5mm X 75mm Stainless Steel Probe	B5-075
5mm X 75mm Stainless Steel Probes (6 Pack)	B5-075-6
7mm X 110mm Stainless Steel Probe	B7-110ST
7mm X 110mm Stainless Steel Probes (6 Pack)	B7-110ST-6
10mm X 110mm Stainless Steel Probe	B10-110ST
10mm X 110mm Stainless Steel Probes (6 Pack)	B10-110ST-6

7 mm OMNI Tip™ Hybrid Generator Probes

The OMNI Tip™ Hybrid Probes combine the convenience of disposable generator probes with the durability of traditional stainless steel probes.

Description	Order #
7 mm x 110 mm Hybrid Probe	22-007
7 mm x 110 mm Hybrid Probes (6 pack)	22-007-6
Replacement Shafts (25 pack)	301725HT

OMNI Tips™

OMNI De-aggregation Tips (7 mm diameter x 110 mm length)

For processing liquids, soft tissues, and samples that require gentle processing



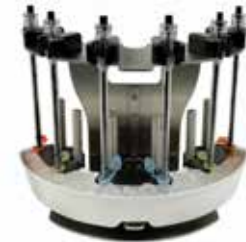
Description	Order #
25 OMNI De-aggregation Tips	30750
50 OMNI De-aggregation Tips	32750
100 OMNI De-aggregation Tips	34750
500 OMNI De-aggregation Tips	35750
1,000 OMNI De-aggregation Tips	3M750

OMNI Hard Tissue Tips (7 mm diameter x 110 mm length)

For processing hard or frozen tissue samples



Description	Order #
25 OMNI Hard Tissue Tips	30750H
50 OMNI Hard Tissue Tips	32750H
100 OMNI Hard Tissue Tips	34750H
500 OMNI Hard Tissue Tips	35750H
1,000 OMNI Hard Tissue Tips	3M750H



Automated Homogenizers

Automated Homogenizers are the ideal solution for researchers needing to homogenize, mix or blend a large number of samples. Automated Homogenizer Systems allow for many samples to be homogenized simultaneously and/or during one processing run period, which reduces researcher time and labor involved in homogenizing as well as provides consistent results and eliminates the risk of cross-contamination.

Prep 96 - Automated Homogenizer Workstation

The Prep 96 is a fully automated sample prep homogenizer workstation designed to eliminate bottlenecks and increase throughput in your lab. Its modular and robust design enables walk away processing of up to 96 samples per batch. The small footprint of the Prep 96 saves valuable bench top space, and will also fit into most standard bio safety cabinets and fume hoods. The User Interface makes it easy for you to program, save, recall or make changes to existing protocols. The latter ability allows for repeatable results while minimizing the element of human error.

PRODUCT FEATURES:

- Walk away automated homogenization
- Reduce the risk of cross contamination
- Increase throughput
- Get consistent results, every time
- Compatible with OMNI Tips™, Hybrid and stainless steel generator probes
- Low noise, high repeatability
- Process 4 samples simultaneously;
24 to 96 samples, depending on tube size



OMNI Prep 96 Automated Homogenizer

OMNI Prep 96 comes standard with four 40-watt brush-less motors, power module, PC, operating software, (1) 14/15 mL x 96 place Sample Tube Rack, and (1) 96 place OMNI Tip™ holder rack.

Description	Order #
OMNI Prep 96 Homogenizer Workstation	51-001-1

OMNI Prep 96 Accessories

Description	Order #
Prep 96 Tip Holder Rack	51-HWR-13
Sample Tube Holder Rack	51-HWR-11
14/15 mL Sample Tube Holder Rack	51-HWR-12

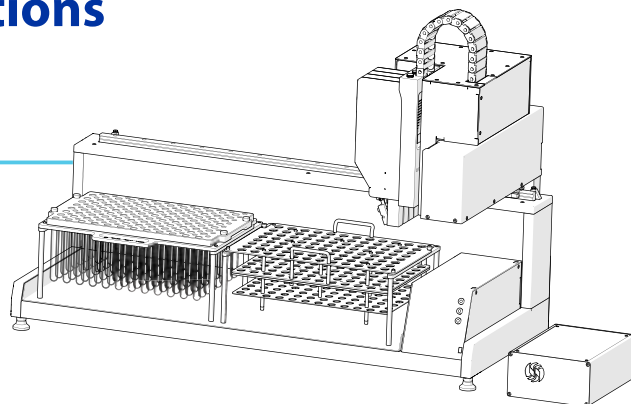


StreamLined, Efficient Sample Processing

Prep 96 is available in 3 configurations

Standard

- Process in 14 mL or 50 mL tubes.
- Stand alone processing.
(96 x 14 mL or 24 x 50 mL)

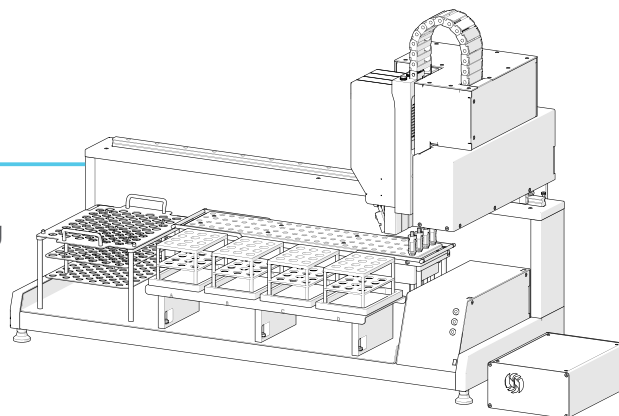


SBS Tube Carriers

- Configured to operate as a component of other larger integrations and liquid handling systems such as Hamilton Star®.
- SBS Footprint (ex. Deep Well Plate)



14 mL
SBS tube carrier



Hamilton Tube Carriers

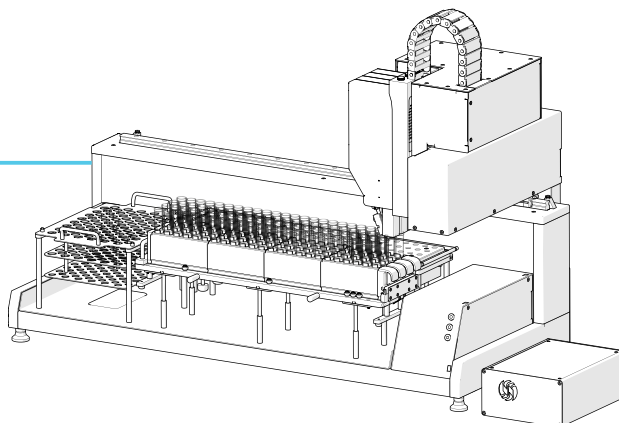
- Process in 10 or 14 mL tubes for use with Hamilton Star®.



14/15 mL
Conical Tubes



50 mL
Conical Tubes



LH 96 - Liquid Handling Automated Homogenizer Workstation

The LH 96 combines multiple sample prep steps into one versatile, efficient and automated device. Quite literally, what used to take hours can now be completed in a matter of minutes.

This product delivers significantly improved performance in the lab, while saving valuable time and greatly reducing costs related to labor intensive processes. No other device can match the versatility and power of the LH 96.

The LH 96 combines a core homogenizing platform, capable of efficiently processing a wide variety of samples, with a fully integrated liquid handling option.

The workstation is compatible with patented OMNI Tip™ disposable homogenizing probes, designed to completely avoid cross-contamination between samples during homogenization.

The LH 96 can automatically dispense buffer or diluteness based on user defined specifications or actual sample weight. Four independent pipette channels transfer homogenate to 96-well plates or other tube formats.

Automatic Sample Weighing is also available for the LH 96. Integrated sample cooling down to 4°C is also available for those working with frozen and/or delicate samples.

The LH 96 is an ideal instrument for any lab looking to automate processes, especially those who are performing medium to high throughput tissue homogenization.

OMNI LH 96 Automated Homogenizer

Includes 8-sample homogenization platform. Customize by choosing from the following options: Liquid Handling/Automated Sample Transfer, Automated Pipetting, Sample Weighing and Sample Cooling (Active or Passive)



PRODUCT FEATURES:

- Replace your homogenizer, liquid handler, pipette & weighing platform, all in one automated machine
- Speed up your sample prep
- Reduce space in the lab
- Eliminate risk of cross contamination
- Get consistent results, every time
- Walkaway processing
- Fits in a fume hood

Description	Order #
OMNI LH 96 Homogenizer Workstation	Call for ordering info

Ultrasonic Homogenizers

Ultrasonic Homogenizers are recommended for samples that require particle size reduction below 1 μm . Common applications include nanoparticle dispersion, creating emulsions, bacteria cell disruptions and DNA shearing. Small and large ultrasonic probes are available to allow for a variety of sample volumes to be processed. Ultrasonic probes are made of chemical resistant solid titanium.

Sonic Ruptor 400 Ultrasonic Homogenizer

The Sonic Ruptor 400 Ultrasonic Homogenizer (SR 400) offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. It can disintegrate most cells, bacteria, spores or tissues. The OMNI Sonic Ruptor can prepare an emulsion down to 1/100 of a micron, homogenize "immiscible" liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids, degas liquids and shear DNA.

PRODUCT FEATURES:

- 400 Watt max power (20kHz System)
- Processing Range: 500 μ L - 1 L
- Variable power supply
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20 kHz systems
- Pulse mode for sensitive samples



Sonic Ruptor 400 Ultrasonic Homogenizer

Includes 400 watt control unit and transducer with variable power output, 2 year warranty, tool kit and instruction manual. *Stand Assembly, Tips, and Accessories sold separately.**

Description	Order #
115V OMNI Sonic Ruptor 400 Homogenizer	18-000-115
220V OMNI Sonic Ruptor 400 Homogenizer	18-000-220
Baseplate, stainless steel support post, three prong clamp & clamp holder	18-205

Sound Abatement Chamber

The Sound Abatement Chamber contains much of the cavitation sound emitted by the OMNI SonicRuptor400. This product is recommended for applications that require extended operation. A clear Plexiglas door permits viewing of the sample while protecting the operator against accidental splashing.

Description	Order #
Sound Abatement Chamber	OR-A-01

250 mL Cup Tip

The 250 mL cup tip consists of a solid titanium tip of 2" diameter with a 250 mL cavity machined into one end. The cup tip acts as a small-batch, closed system. High intensity processing. *The Micro-tube Tray is required for use with the cup tip.*

Description	Order #
250 mL Cup Tip	OR-C-250
Micro-tube Tray for OR-C-250 - holds 8 micro-tubes	OR-C-250-T



Sonic Ruptor 4000 Ultrasonic Homogenizer

The OMNI Sonic Ruptor 4000 Ultrasonic Homogenizer (SR 4000) has an integrated Sound Control Chamber to contain much of the cavitation sound emitted during processing. It offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. The OMNI Sonic Ruptor can disintegrate most cells, bacteria, spore or tissue. It can also prepare an emulsion down to 1/100 of a micron, homogenize "immiscible" liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids and degas liquids.

PRODUCT FEATURES:

- 400 Watt Max Power (20kHz System)
- Processing Range: 500 µL - 1 L
- Integrated Sound Abating Chamber with Clear Plexiglas Door
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20kHz systems
- Pulse mode for sensitive samples
- 2 year control unit warranty



Sonic Ruptor 4000 Ultrasonic Homogenizer

Includes 400 watt control unit and integrated Sound Control Chamber with variable power output, 2 year warranty, tool kit and instruction manual. *Tips sold separately.**

Description	Order #
115V OMNI Sonic Ruptor 4000 Homogenizer	OR4000-115
220V OMNI Sonic Ruptor 4000 Homogenizer	OR4000-220

Solid Titanium Tips

All Solid Tips are of a single-piece design. Each includes a package of five Interface Washers.

Product	Intensity	Tip Size	Processing Range	Order #
5/32" Processing Tip	Very High	Diameter: 5/32" (3.8 mm) Length: 10.1" (25.6 cm)	250 µL - 10 mL	OR-T-156
3/8" Processing Tip	High	Diameter: 3/8" (9.5 mm) Length: 8.6" (21.8 cm)	10 mL - 250 mL	OR-T-375
1/2" Processing Tip	Medium-High	Diameter: 1/2" (12.7 mm) Length: 5.38" (13.65 cm)	10 mL - 300 mL	OR-T-500
3/4" Processing Tip	Medium	Diameter: 3/4" (19 mm) Length: 4.1" (10.5 cm)	25 mL - 500 mL	OR-T-750
1" Processing Tip	Low	Diameter: 1" (25.4 mm) Length: 4.85" (12.3 cm)	50 mL - 1 L	OR-T-1000



Manual Homogenizers

Tissue Grinders are an inexpensive way to homogenize small samples.
Available in disposable or non disposable options.

Glass Homogenizers

Dounce Tissue Grinders are often used to disrupt cells for the extraction of cell products including proteins, RNA and DNA. This grinder design is usually “stroked” a certain number of times to extract cell products or nuclei with minimal disruption. Each set contains both a tight and a loose fitting pestle.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
1	11 x 48	125	2	07-357538
7	13 x 82	175	2	07-357542
15	22 x 94	210	2	07-357544
40	32 x 140	285	2	07-357546

Tenbroeck Tissue Grinders have a hollow handle that allows packing with ice, making them suitable for liver, intestines and heart tissue. The ice reduces the stress on the cells, helping to maintain cell viability and increase viable cell count.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
1	11 x 48	140	2	07-357421
2	11 x 50	140	2	07-357422
7	16 x 82	190	2	07-357424
15	22 x 94	250	2	07-357426
40	32 x 140	320	2	07-357428

The Potter-Elvehjem Grinder with Teflon® pestle is well suited for soft tissue, such as brain and liver. The design of this grinder allows for quick homogenization of the tissue.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
2	11 x 45	203	2	07-358029
5	13 x 66	219	2	07-358034
10	16 x 74	219	2	07-358039
15	19 x 84	219	2	07-358044
30	24 x 118	266	2	07-358049
55	30 x 130	266	2	07-358054

Overhead Stirrer are compact unit with solid state speed control capable of providing RPM/torque combinations for most laboratory operations such as homogenizing or mixing. *For use with the Potter-Elvehjem Tissue Grinders.*

Description	Order #
Overhead Stirrer	07-903475

Micro Tissue Grinder Kit offers a selection of 7 micro tissue grinders, assuring the availability of the right style for the job. Contains: 1 mL Tenbroeck, 0.5 mL G.P.I., 1 mL Dounce, 2 mL Potter-Elvehjem, 1 mL Tapered, 0.1 mL Potter-Elvehjem, and 0.2 mL micro tissue grinders.

Description	Order #
Micro Tissue Grinder Kit	07-358204

BioMasher Single Use Homogenizer is an essential tool for any researcher performing cell disruption.

Description	Quantity	Order #	Quantity	Order #
BioMasher 1.5 mL	60	09-A10-050	300	09-A10-300
BioMasher 1.5 mL with O-Ring	60	09-A11-050	300	09-A11-300





OMNI
International

935 Cobb Place Blvd. NW
Kennesaw, GA 30144
Phone: 800.776.4431
E-mail: sales@omni-inc.com
www.omni-inc.com