



Lysing Matrix

FastPrep® Lysing beads and matrices make difficult-to-lyse samples easy. No matter how tough or resistant your samples are our bead beating tubes will effectively disrupt cell walls, providing the highest yields of nucleic acids and proteins in a matter of seconds. Sample lysis tubes from MP Bio are highly reproducible with no cross-contamination. All lysing matrix tubes are standard sizes and fit just about any homogenizer on the market. We offer a wide variety of lysing beads and matrices to fit all sample types and applications.

Optimal cell disruption for any sample.

Size of the beads and composition optimized according to the sample.

No cross contamination with closed Lysing Matrix tubes.

Available in 2 mL, 4.5 mL, 15 mL, 50 mL tubes or 96 well plates.

Fit any high-speed bead-beating homogenizers.

Validated worldwide with 3,000+ Lysing Matrix specific publications.

FastPrep® sample tubes range from low to high impaction breaking down any sample type whether the cell walls are hard or soft. Sample types include but are not limited to: human and animal and plant tissues; microorganisms like bacterial, yeast and fungi; plant, soil, fecal, plus insects and worms.

Impact-resistant lysis tubes with beads are available in 2 mL, 4.5 mL, 15 mL, 50 mL and 96-well format sizes and contain a wide variety of materials to meet your lysing, grinding, and homogenization needs. All matrix particles are produced to the highest quality standards to ensure optimum performance. The lysing matrix particles are then dispensed into the Lysing Matrix Tubes under a rigorous set of proprietary conditions allowing complete confidence for immediate use.

For optimal performance and results we recommend using in conjunction with our FastPrep-24[™] 5G Homogenizer and FastPrep[®] Extraction Kits. Using this combination to easily grind, lyse and homogenize any sample type in seconds. Not only is it fast and efficient but can be dependable time over time.

Lysing	Matrix	Matrix Composition	Lysing	Matrix	Matrix Composition
•	А	Garnet matrix and 1/4 inch ceramic beads	0	I	2 mm yellow zirconium oxide beads and 4 mm black ceramic sphere
•	В	0.1 mm silica spheres	•	J	2 mm yellow zirconium oxide beads and 1.6 mm aluminum oxide particles
•	С	1 mm silica spheres	•	K	0.8 mm zirconium silicate beads
•	D	1.4 mm ceramic spheres	•	М	1/4 inch ceramic beads
•	Е	1.4 mm ceramic spheres, 0.1 mm silica spheres, and 4 mm glass beads	0	S	1/8 inch stainless steel beads
0	F	1.6 mm aluminum oxide particles, and 1.6 mm silicon carbide particles	0	SS	6.35 mm stainless steel grinding balls
•	G	1.6 mm silicon carbide particles and 2 mm glass beads	0	Υ	0.5 mm diameter Yttria-stabilized zirconium oxide beads
•	Н	2 mm glass beads, and 2 mm yellow zirconium oxide beads	0	Z	2 mm diameter Yttria-stabilized zirconium oxide beads

Size:

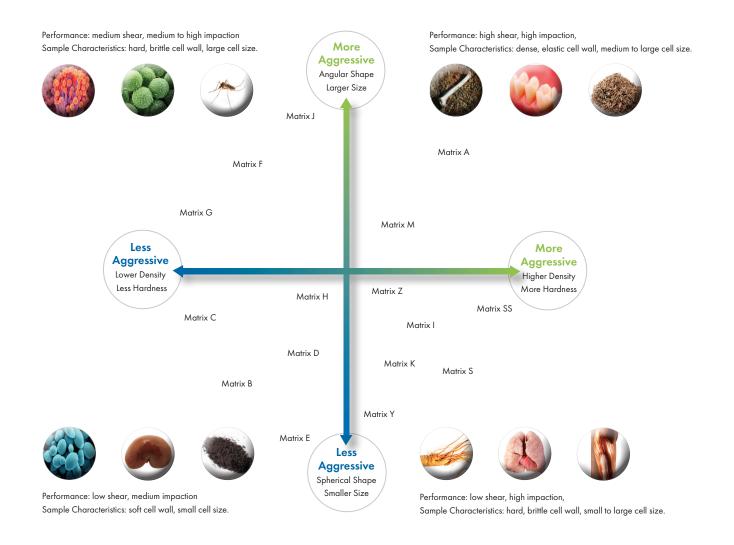
The smaller the particles used in the grinding media, the smaller the average particle size and the smaller the lowest-limiting particle size produced during pulverization. Matrix particle size should be selected based upon the size of the particles you wish to obtain in your lysate.

Shape:

The shape of the grinding media is a major determining factor in how cells are disrupted. Dull media, such spherical beads, utilize cascade impaction (hammering) as the main force for cell lysis. Sharp and angular shaped media will primarily generate mechanical shear forces (chopping and cutting) which can quickly open difficult cell walls, grind fibrous or elastic animal tissue, or crack spores or oocytes. Shear forces are preferable when isolating stable molecules such as DNA, stable proteins, structural polysaccharides and small molecules or metabolites. RNA and certain easily denatured proteins can be quickly degraded by shear forces, so care needs to be taken when using angular media. For isolation of these molecules, smooth impactor grinding media can be much more forgiving.

Hardness, Density and Composition:

The composition determines two very important qualities: hardness and density, both of which are inherent physical properties derived from the molecular composition of the matrix particle. The hardness must be greater than that of the sample being pulverized, with higher hardness values being more effective at disrupting hard and brittle cell membranes. Hardness and density values help optimize lysis efficiency while preserving the integrity of the analytes of interest.



Ready-to-Use Lysing Matrix

	Sample Type	Ŀ	ysin	g Mc	atrix												
	Animal & Human Tissues	A	В	С	D	E	F	G	н	1	J	K	M	S	SS	Υ	Z
Soft Tissues	Lung, Breast, Kidney, Heart, Intestine, Muscle, Spleen, Liver, Brain	•			•									•	•		•
	Skin	•			•												
	Nail													•			
S	Tail, Ear	•												•			
nple	Artery	•			•												•
Unique Samples	Hair													•			
ne	Bone	•										•	•	•	•		
Jnic	Tumor	•												•			
	Mammalian cell	•			•												•
	Infected tissue (isolation of viruse)												•				
	Microorganisms	Α	В	С	D	Е	F	G	Н	ı	J	K	М	S	SS	Υ	Z
	Bacteria (gram+ and -)	•	•				•				•						
	Yeast, Mold	•		•			•	•				•				•	
	Bacterial & Fungal spore	•	•				•	•		•	•	•			•		
	Algae	•		•				•								•	
	Virus	•	•														
	Environmental Samples	Α	В	С	D	Е	F	G	Н	- 1	J	K	М	S	SS	Υ	Z
	Soil, Marine sediment, Rhizosphere, Manure, Compost, Sludge, Feces, Wastewater					•		•	•	•							
	Plant Tissues	Α	В	С	D	Е	F	G	Н	ı	J	K	М	S	SS	Y	Z
	Leave	•			•		•	•									•
	Seed	•					•	•	•	•			•	•	•		
	Root	•					•	•						•			
	Needle	•					•	•					•	•			
	Wood	•					•	•	•	•							
	Stem, Flower	•			•		•	•									•
	Insects & Worms	Α	В	С	D	Е	F	G	Н	I	J	K	М	S	SS	Υ	Z
	Ticks, Fly	•			•				•	•							•
	Nematode	•		•	•												•
	Bee, Mosquitoe	•			•												•

Lysing Matrices

Pre-aliquoted Tube:

SO x 2mL	Description	Pack Size	Cat. No.
SOO x 2mL 116910500 25 x 4.5mL 116970025 116970025 116970025 116970025 116970025 116970025 116970025 116970100 116970100 116970100 116970100 116970100 116970025 116970005 116970005 116970005 116970005 116970010 116970010 116970010 116970010 116970010 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116970000 116971000 116		50 x 2mL	116910050
Lysing Matrix A 50 × 4.5mL 116970025 100 × 4.5mL 116970100 5 × 15mL 116930005 10 × 50mL 116950010 50 × 50mL 116950050 100 × 50mL 116970050 100 × 50mL 116970050 100 × 20mL 116911050 100 × 2mL 116911050 100 × 2mL 11691100 500 × 2mL 11691100 500 × 2mL 116971025 100 × 4.5mL 116931005 100 × 4.5mL 116931005 100 × 50mL 116951010 500 × 50mL 116951010 500 × 50mL 116951000 500 × 50mL 116951500 100 × 4.5mL 11691100 500 × 50mL 116951500 100 × 50mL 116951500 100 × 50mL 116951500 100 × 50mL 11691005 100 × 50mL 11691005 100 × 50mL 11691005 100 × 50mL 11691005 100 × 50mL 11691000	Lysing Matrix A	100 x 2mL	116910100
Lysing Matrix A 50 × 4.5mL 116970100 5 × 15mL 116930005 Lysing Matrix A 25 × 15mL 116930025 50 × 15mL 116930050 10 × 50mL 116950010 50 × 50mL 116950100 500 × 50mL 116950500 10 × 50mL 116950500 10 × 96-well Rack 116980011 Lysing Matrix B 10 × 96-well Rack 116980010 500 × 2mL 116911050 Lysing Matrix B 100 × 2mL 116911100 500 × 2mL 116971025 Lysing Matrix B 50 × 4.5mL 116971025 Lysing Matrix B 100 × 4.5mL 116931025 50 × 15mL 116931025 50 × 15mL 116931025 50 × 15mL 116931025 50 × 50mL 116951010 50 × 50mL 116951010 50 × 50mL 116951000 500 × 50mL 116951000 100 × 4.5mL 116972050 Lysing Matrix C 100 × 2mL 116912000 500 × 2mL 116912000 500 × 2mL 116972050 Lysing Matrix C 100 × 4.5mL 116972050 Lysing Matrix C 100 × 4.5mL 116972050 100 × 4.5mL 116972050 100 × 4.5mL 116972050		500 x 2mL	116910500
100 x 4.5mL		25 x 4.5mL	116970025
Lysing Matrix A 25 x 15mL 116930005 25 x 15mL 116930025 50 x 15mL 116950010 10 x 50mL 116950050 100 x 50mL 116950100 500 x 50mL 116950100 500 x 50mL 116950500 10 x 96-well Rack 116980010 10 x 96-well Rack 116980010 Lysing Matrix B 100 x 2mL 11691100 500 x 2mL 11691100 500 x 2mL 116971025 Lysing Matrix B 50 x 4.5mL 116971025 Lysing Matrix B 25 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931005 Lysing Matrix B 10 x 50mL 116951010 50 x 50mL 116951010 50 x 50mL 116951100 50 x 50mL 116951100 50 x 50mL 116951100 50 x 50mL 116951100 500 x 50mL 116951500 96-well Rack 11698101 10 x 96-well Rack 116981010 10 x 96-well Rack 116981010 50 x 2mL 116912500 Lysing Matrix C 50 x 2mL 116912500 25 x 4.5mL 116972055 Lysing Matrix C 50 x 4.5mL 116972050 Lysing Matrix C 50 x 4.5mL 116972050 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972050	Lysing Matrix A	50 x 4.5mL	116970050
Lysing Matrix A 25 x 15mL 116930025 50 x 15mL 116930050 10 x 50mL 116950010 50 x 50mL 116950100 500 x 50mL 116950500 Lysing Matrix A 100 x 50mL 116950500 116950500 96-well Rack 116980001 10 x 96-well Rack 11698010 50 x 2mL 11691100 500 x 2mL 116911100 500 x 2mL 116971025 Lysing Matrix B 100 x 4.5mL 116971025 100 x 4.5mL 116971100 5 x 15mL 116931025 5 x 15mL 116931025 5 x 15mL 116931025 5 x 15mL 116951010 5 x 50mL 116951010 5 x 50mL 116951010 5 x 50mL 116951010 5 x 50mL 11695100 5 x 50mL 11695100 5 x 50mL 11695100 5 x 50mL 11695100 5 x 50mL 116951500 1 x 96-well Rack 116981001 1 x 96-well Rack 11698101 1 x 96-well Rack 116981010 5 x 2mL 11691200 5 x 2mL 116912500 25 x 4.5mL 116972055 1 x 4.5mL 116972055 1 x 4.5mL 116972050		100 x 4.5mL	116970100
SO x 15mL		5 x 15mL	116930005
Lysing Matrix A 10 x 50mL	Lysing Matrix A	25 x 15mL	116930025
Lysing Matrix A 50 x 50mL 116950050 100 x 50mL 116950100 500 x 50mL 116950500 96-well Rack 116980001 10 x 96-well Rack 116980010 50 x 2mL 11691100 500 x 2mL 116911100 500 x 2mL 116911100 500 x 2mL 116911500 25 x 4.5mL 116971025 Lysing Matrix B 50 x 4.5mL 11697100 5 x 15mL 116931025 50 x 15mL 116931025 50 x 15mL 116951010 50 x 50mL 116951010 50 x 50mL 116951000 500 x 50mL 116951000 500 x 50mL 116981001 Lysing Matrix B 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912050 100 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972050 100 x 4.5mL 116972100		50 x 15mL	116930050
Lysing Matrix A 100 x 50mL 116950100 500 x 50mL 116950500 96-well Rack 116980001 10 x 96-well Rack 116980010 50 x 2mL 116911050 Lysing Matrix B 100 x 2mL 116911100 500 x 2mL 116911500 25 x 4.5mL 116971025 Lysing Matrix B 50 x 4.5mL 11697100 5 x 15mL 11697100 5 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931005 10 x 50mL 116931050 10 x 50mL 116951010 50 x 50mL 116951010 50 x 50mL 116951000 500 x 50mL 116951500 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 11691200 500 x 2mL 11691200 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972050 100 x 4.5mL 116972050		10 x 50mL	116950010
100 x 50mL		50 x 50mL	116950050
Lysing Matrix B 96-well Rack 116980001 10 x 96-well Rack 116911050 50 x 2mL 11691100 500 x 2mL 11691100 500 x 2mL 116911500 25 x 4.5mL 116971025 Lysing Matrix B 50 x 4.5mL 116971000 5 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951010 50 x 50mL 116951050 100 x 50mL 116951050 100 x 50mL 116951050 500 x 50mL 116951000 500 x 50mL 116951000 500 x 50mL 116951000 500 x 50mL 116951000 500 x 2mL 116912050 Lysing Matrix B 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 50 x 2mL 116912000 500 x 2mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972050 100 x 4.5mL 116972050	Lysing Matrix A	100 x 50mL	116950100
Lysing Matrix B 10 x 96-well Rack 116980010 50 x 2mL 116911000 500 x 2mL 116911100 500 x 2mL 116911500 25 x 4.5mL 116971025 Lysing Matrix B 50 x 4.5mL 116971050 100 x 4.5mL 116971000 5 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951010 50 x 50mL 116951000 500 x 2mL 116912000 10 x 96-well Rack 116981010 50 x 2mL 116912000 500 x 2mL 116912500 Lysing Matrix C 100 x 2mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972050 100 x 4.5mL 116972100		500 x 50mL	116950500
10 x 96-well Rack 116980010 50 x 2mL 116911050 116911000 500 x 2mL 116911100 116911500 25 x 4.5mL 116971025 116971025 116971025 116971000 1169711000		96-well Rack	116980001
Lysing Matrix B 100 x 2mL 116911100 500 x 2mL 116911500 25 x 4.5mL 116971025 Lysing Matrix B 50 x 4.5mL 116971050 100 x 4.5mL 116971000 5 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951000 500 x 50mL 116951500 10 x 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972050	Lysing Matrix B	10 x 96-well Rack	116980010
Soo x 2mL 116911500		50 x 2mL	116911050
Lysing Matrix B 50 x 4.5mL 116971050 100 x 4.5mL 116971000 5 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951000 500 x 50mL 116951500 10 x 96-well Rack 116981001 10 x 96-well Rack 116981001 10 x 96-well Rack 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116972050 100 x 4.5mL 116972050 100 x 4.5mL 116972100	Lysing Matrix B	100 x 2mL	116911100
Lysing Matrix B 50 x 4.5mL 116971000 5 x 15mL 116931005 Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951050 100 x 50mL 116951500 500 x 50mL 116951500 100 x 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100		500 x 2mL	116911500
100 x 4.5mL		25 x 4.5mL	116971025
Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951050 100 x 50mL 116951100 500 x 50mL 116951500 Lysing Matrix B 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 100 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	Lysing Matrix B	50 x 4.5mL	116971050
Lysing Matrix B 25 x 15mL 116931025 50 x 15mL 116931050 10 x 50mL 116951010 50 x 50mL 116951100 500 x 50mL 116951500 Lysing Matrix B 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972100		100 x 4.5mL	116971100
50 x 15mL		5 x 15mL	116931005
Lysing Matrix B 10 x 50mL 116951010 50 x 50mL 116951050 100 x 50mL 116951100 500 x 50mL 116951500 P6-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	Lysing Matrix B	25 x 15mL	116931025
Lysing Matrix B 50 x 50mL 116951050 100 x 50mL 116951100 500 x 50mL 116951500 P6-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100		50 x 15mL	116931050
Lysing Matrix B 100 x 50mL 116951100 500 x 50mL 116951500 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100		10 x 50mL	116951010
100 x 50mL 116951100 500 x 50mL 116951500 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	1	50 x 50mL	116951050
Lysing Matrix B 96-well Rack 116981001 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	Lysing Matrix B	100 x 50mL	116951100
Lysing Matrix B 10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100		500 x 50mL	116951500
10 x 96-well Rack 116981010 50 x 2mL 116912050 Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	1	96-well Rack	116981001
Lysing Matrix C 100 x 2mL 116912100 500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	Lysing Matrix B	10 x 96-well Rack	116981010
500 x 2mL 116912500 25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100		50 x 2mL	116912050
25 x 4.5mL 116972025 Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100	Lysing Matrix C	100 x 2mL	116912100
Lysing Matrix C 50 x 4.5mL 116972050 100 x 4.5mL 116972100		500 x 2mL	116912500
100 x 4.5mL 116972100		25 x 4.5mL	116972025
	Lysing Matrix C	50 x 4.5mL	116972050
5 x 15mL 116932005		100 x 4.5mL	116972100
		5 x 15mL	116932005
Lysing Matrix C 25 x 15mL 116932025	Lysing Matrix C	25 x 15mL	116932025
50 x 15mL 116932050		50 x 15mL	116932050

Description	Pack Size	Cat. No.		
- Sootilphon-		116952010		
Lysing Matrix C		116952050		
	Pack Size 10 x 50mL 50 x 50mL 96-well Rack 10 x 96-well Rack 50 x 2mL 100 x 2mL 500 x 2mL 25 x 4.5mL 50 x 4.5mL 50 x 15mL 10 x 50mL 100 x 50mL 50 x 50mL 100 x 2mL 25 x 15mL 50 x 15mL 10 x 50mL 50 x 50mL 100 x 50mL 500 x 50mL 500 x 5mL 100 x 2mL 500 x 4.5mL 50 x 4.5mL 50 x 4.5mL 50 x 2mL 100 x 4.5mL 50 x 4.5mL 50 x 4.5mL 50 x 4.5mL 50 x 50mL 100 x 50mL 50 x 50mL 100 x 4.5mL 50 x 15mL 10 x 50mL 50 x 15mL 10 x 50mL 50 x 50mL 10 x 50mL 50 x 50mL 10 x 50mL 50 x 50mL 10 x 96-well Rack 10 x 96-well Rack 10 x 96-well Rack	116982001		
Lysing Matrix C		116982010		
L. C. Mart. D		116913050		
Lysing Matrix D		116913100		
		116913500		
		116973025		
Lysing Matrix D		116973050		
		116973100		
		116933005		
Lysing Matrix D	25 x 15mL	116933025		
	50 x 15mL	116933050		
	10 x 50mL	116953010		
Lysing Matrix D	50 x 50mL	116953050		
Lysing Mainx D	100 x 50mL	116953100		
	500 x 50mL	116953500		
Ii.a. a. A.A. astain. D	96-well Rack	116983001		
Lysing Matrix D	10 x 96-well Rack	116983010		
	50 x 2mL	116914050		
Lysing Matrix E	100 x 2mL	116914100		
	500 x 2mL	116914500		
	25 x 4.5mL	116974025		
Lysing Matrix E	50 x 4.5mL	116974050		
	100 x 4.5mL	116974100		
	5 x 15mL	116934005		
Lysing Matrix E	25 x 15mL	116934025		
	50 x 15mL	116934050		
	10 x 50mL	116954010		
Lysing Matrix E	50 x 50mL	116954050		
	100 x 50mL	116954100		
	96-well Rack	116984001		
Lysing Matrix E	10 x 96-well Rack	116984010		
	50 x 2mL	116915050		
Lysing Matrix F	100 x 2mL	116915100		
	500 x 2mL	116915500		
	50 x 2mL	116916050		
Lysing Matrix G	100 x 2mL	116916100		



Lysing Matrices

Pre-aliquoted Tube:

Description	Pack Size	Cat. No.
	50 x 2mL	116917050
Lysing Matrix H	100 x 2mL	116917100
	50 x 2mL	116918050
Lysing Matrix I	100 x 2mL	116918100
1	50 x 2mL	116919050
Lysing Matrix J	100 x 2mL	116919100
louis a AA atrio K	50 x 2mL	116920050
Lysing Matrix K	100 x 2mL	116920100
	50 x 2mL	
Lysing Matrix M	100 x 2mL	116923100
	500 x 2mL	116923500
Lucia a AA atain AA	25 x 15mL	116939025
Lysing Matrix M	50 x 15mL	116939050
Today AAsid AA	25 x 15mL 50 x 15mL 10 x 50mL 50 x 50mL 50 x 2mL 100 x 2mL 500 x 2mL	116959010
Lysing Matrix M	50 x 50mL	116959050
	50 x 2mL	116925050
Lysing Matrix S	100 x 2mL	116925100
	50 x 2mL 100 x 2mL 50 x 15mL 50 x 15mL 10 x 50mL 50 x 2mL 10 x 50mL	116925500
	5 x 15mL	116938005
Lysing Matrix S	H 100 x 2mL 100 x 2mL 50 x 2mL M 100 x 2mL 50 x 2mL M 100 x 2mL 50 x 2mL M 100 x 2mL 500 x 2mL M 50 x 15mL 10 x 50mL 50 x 2mL 50 x 2mL S 100 x 2mL 50 x 2mL S 25 x 15mL 50 x 2mL S 100 x 2mL 50 x 2mL 50 x 2mL 50 x 2mL 50 x 2mL 7 100 x 2mL 10 x 50mL 10 x 2mL 10 x 50mL 10 x 50mL 50 x 2mL 7 100 x 2mL 50 x 2mL 7 100 x 2mL 50 x 2mL 7 100 x 2mL 50 x 2mL 50 x 15mL 10 x 50mL 50 x 2mL 7 100 x 2mL 50 x 15mL 100 x 4.5mL 50 x 15mL 100 x 4.5mL 50 x 15mL	116938025
		116938050
	10 x 50mL	116941010
Lysing Matrix SS	50 x 50mL	116941050
	100 x 50mL	116941100
	50 x 2mL	116960050
Lysing Matrix Y	100 x 2mL	116960100
	500 x 2mL	116960500
	25 x 4.5mL	116977025
Lysing Matrix Y	50 x 4.5mL	116977050
	50 x 2mL 100 x 2mL 50 x 2mL 25 x 15mL 50 x 15mL 10 x 50mL 50 x 2mL 50 x 2mL 100 x 2mL 50 x 2mL 100 x 2mL 50 x 50mL 50 x 50mL 50 x 2mL 100 x 2mL 50 x 2mL 50 x 2mL 100 x 2mL 50 x 15mL 25 x 15mL 50 x 15mL 10 x 50mL 50 x 50mL	116977100
	5 x 15mL	116975005
Lysing Matrix Y	25 x 15mL	116975025
	100 x 2mL 50 x 2mL 25 x 15mL 50 x 50mL 50 x 2mL 100 x 2mL 50 x 50mL 50 x 50mL 50 x 2mL 100 x 2mL 50 x 2mL 100 x 2mL 50 x 50mL 50 x 2mL 100 x 2mL 50 x 15mL 25 x 15mL 50 x 15mL 10 x 50mL 50 x 2mL 50 x 35mL 50 x 4.5mL 50 x 4.5mL 50 x 15mL 50 x 15mL 50 x 15mL	116975050
Lycina Matrix V	10 x 50mL	116976010
Lysing Matrix Y	50 x 50mL	116976050

Description	Pack Size	Cat. No.	
Lucia a Madain V	96-well Rack	116960001	
Lysing Matrix Y	10 x 96-well Rack	116960010	
	50 x 2mL		
Lysing Matrix Z	100 x 2mL	116961100	
	500 x 2mL	116961500	
	25 x 4.5mL	116985025	
Lysing Matrix Z	50 x 4.5mL	116985050	
	100 x 4.5mL	116985100	
	5 x 15mL	116978005	
Lysing Matrix Z	25 x 15mL	116978025	
	96-well Rack 10 x 96-well Rack 50 x 2mL 100 x 2mL 500 x 2mL 25 x 4.5mL 50 x 4.5mL 100 x 4.5mL 5 x 15mL 25 x 15mL 50 x 15mL 10 x 50mL 96-well Rack	116978050	
Lucia a Manteia 7	10 x 50mL	116979010	
Lysing Matrix Z	10 x 96-well Rack 50 x 2mL 100 x 2mL 500 x 2mL 25 x 4.5mL 50 x 4.5mL 100 x 4.5mL 5 x 15mL 25 x 15mL 50 x 15mL 10 x 50mL	116979050	
Lucia a Mantaia 7	96-well Rack	116961001	
Lysing Matrix Z	10 x 96-well Rack	116961010	

Biopulverizer System I

Cat. No. 116750200

The perfect starter pack for new FastPrep® Instrument owners. Suitable for all sample types.

System I contains Lysing Matrix A, B, C, D, E.

Biopulverizer System II

Cat. No. 116850200

The perfect pack for processing difficult samples, such as skeletal muscle, pancreas, lung, heart, bone, seeds and spores.

System II contains Lysing Matrix F, G, H, I, J.



ORDER NOW!

Bulk Beads:

Description	Pack Size	Cat. No.
	50/pk	116540034
1 / All CED A MIC COLLEGE	100 per bag	116540424
1/4" CERAMIC SPHERE	500 each	116540412
	1000 each	116540422
Later Adal : A D III (Carrell)	200 g	116540423
Lysing Matrix A Bulk (Garnet)	500 g	116540427
	250 g	116540425
Lysing Matrix B Bulk	500 g	116540428
	1 kg	116540429
Lucia a AA atriu C Bull	500 g	116540432
Lysing Matrix C Bulk	1 kg	116540433
Lysing Matrix D Bulk	500 g	116540434
Ii A At.i V DII.	500 g	116540436
Lysing Matrix Y Bulk	1 kg	116540437
Lata Mart 7 D II	500 g 250 g 500 g 1 kg 500 g 1 kg 500 g 500 g	116540438
Lysing Matrix Z Bulk	1 kg	116540439
Lysing Matrix F Bulk	500 g	116540440
0.3mm Glass Beads	500 gm	116540446
O.Smm Glass Bedas	1 kg	116540447
0.5mm Glass Beads	500 gm	116540448
U.3mm Glass Beads	1 kg	116540449
2.0mm Glass Beads	1 kg	116540441
4 mm Glass Beads	100 beads	116914801
0.8mm Zirconium Silicate Beads	1 kg	116540443
2.0mm Yellow Zirconium Oxide Beads	1 kg	116540442
Lysing Matrix SS bulk (1/4")	1 kg	116540431

Empty Tubes & Caps:

Description	Pack Size	Cat. No.
Empty FastPrep® tubes	500x2 ml	115076200
(non-skirted)	1,000x2 ml	115076400
(CAPS NOT INCLUDED)	5,000x2 ml	115076600
Caps	500 each	11506X002
(Option: Orange, Purple, Blue,	1000 each	11506X005
Red, Green, Clear)	5000 caps	11506X010

Metal Lysing Matrix Tubes:

Application

- Dry grinding very tough or hard samples where heat generated can damage plastic tubes
- Cryogenic dry grinding where severe cold temps (dry ice or LN2) can damage plastic tubes
- Milling or grinding non-biological samples where plastic contamination is of concern
- Sample processing with solvents or chemicals that are incompatible with plastics

Research Areas and Sample Types

Environmental and Agriculture

Tough seeds such as Dried Corn, Soybeans, Wheat, Tomato and Chile; Wood, Bark, Roots, animal claws and hooves

Forensics

Bone, Teeth, Hair, Fingernails, non-Biological substrates

Cancer and Disease

Tough tissues, Bone, Cartilage, Skin

Industrial

Non Biological, Rocks and Minerals, Plastics and Composites, Printed Circuit Boards, Wood and Building Materials



Metal tubes ordering info:

Description	Pack Size	Cat. No.
	2 Each	116991002
Metal Lysing Tube, 2 mL, w/ Grinding Ball	3 Each	116991003
	6 Each	116991006
	2 Each	116992002
Metal Lysing Tube, 2 mL, w/ Grinding Cylinder	3 Each	116992003
	6 Each	116992006
Replacement O-rings for Metal Lysing Tube, 2 mL	50 Each	116990100





Our Products. Your Answers.

Apoptosis

Cell Biology

Culture Growth Media

FastPrep® Sample Prep

Immunology

Molecular Biology

Adsorbents

Biochemicals

Fine Chemicals

Labware

Radiochemicals

Research Diets

SafTest[™] Food Quality

LEARN MORE!

MP Biomedicals

Americas: 800.854.0530 | custserv@mpbio.com Europe: 00800.7777.9999 | custserv.eur@mpbio.com Japan: 03.6667.0730 | mpbioj@wg8.so-net.ne.jp Singapore: 65.6775.0008 | enquiry_ap@mpbio.com South Korea: 82.2.425.5991 | info.korea@mpbio.com Australia: 61.2.8824.2100 | aus.cs@mpbio.com China: 86.4000.150.0680 | mpchina@mpbio.com India: 91.22.27636921/22/24 | info.india@mpbio.com New Zealand: 64.9.912.2460 | nzsales@mpbio.com