





Lysing Matrix







Your ultimate lysing solution for fast and reproducible sample preparation



Ready-to-use bead beating lysing matrices for complete homogenization of any sample type

Choosing the right lysing matrix for homogenizing your cells, tissues, environmental samples, insects, and plants is easy with MP Bio's comprehensive selection of Lysing Matrix tubes. Our innovative bead beating technology comes in a variety of bead sizes, shapes and compositions to ensure complete homogenization and reproducible sample preparation. Combine our Lysing Matrix with FastPrep instruments and kits for rapid extraction and purification of DNA, RNA and proteins, suitable for a full range of downstream applications.

-  Quick and easy cell disruption with beads optimized for specific sample types
-  Reliable and reproducible sample preparation
-  Compatible with any high-speed bead-beating homogenizer
-  Utilized worldwide with 20,000+ Lysing Matrix-specific publications

Matrix Showcase	Code	Composition
	A	Garnet matrix and 6.35 mm (¼ inch) ceramic beads
	B	0.1 mm silica beads
	C	1 mm silica beads
	D	1.4 mm ceramic beads
	E	1.4 mm ceramic beads, 0.1 mm silica beads, and 4 mm glass beads
	F	1.6 mm aluminum oxide beads and 1.6 mm silicon carbide particles
	G	1.6 mm silicon carbide particles and 2 mm glass beads
	H	2 mm glass beads and 2 mm yellow zirconium oxide beads
	I	2 mm yellow zirconium oxide beads and 4 mm ceramic beads
	J	2 mm yellow zirconium oxide beads and 1.6 mm aluminum oxide beads
	K	0.8 mm zirconium silicate beads
	M	6.35 mm (¼ inch) zirconium oxide ceramic beads
	S	3.2 mm (⅝ inch) stainless steel beads
	SS	5.5 mm stainless steel grinding balls
	Y	0.5 mm yttria-stabilized zirconium oxide beads
	YB	0.1 mm silica beads and 0.5 mm yttria-stabilized zirconium oxide beads
	Z	2 mm yttria-stabilized zirconium oxide beads

Lysing Matrices available in the following sizes:

2 mL

50, 100 & 500 tubes

4.5 mL

25, 50 & 100 tubes

15 mL

5, 25 & 50 tubes

50 mL

10, 50, 100 & 500 tubes

96-well plates

1 & 10 96-well plates



Achieve Optimal Lysing Performance with Ready-to-Use Lysing Matrix

Sample Type	Lysing Matrix																
Animal & Human Tissues	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z
Soft Tissues (Lung, Breast, Kidney, Heart, Intestine, Muscle, Spleen, Liver, Brain)	•			•									•	•			•
Skin	•			•													
Nail													•				
Tail, Ear	•												•				
Vascular tissue	•			•													•
Hair													•				
Bone	•										•	•	•	•			
Tumor	•												•				
Mammalian cell	•			•													•
Infected Tissue (isolation of virus particles)												•					
Microorganisms	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z
Bacteria (gram + and -)	•	•				•				•						•	
Yeast, Mold	•		•			•	•				•				•	•	
Bacterial & Fungal Spore	•	•				•	•		•	•	•			•		•	
Algae	•		•				•								•	•	
Virus	•	•														•	
Environmental Samples	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z
Soil, Marine Sediment, Rhizosphere, Manure, Compost, Sludge, Feces, Wastewater					•		•	•	•							•	
Plant Tissues	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z
Leaf	•			•		•	•										•
Seed	•					•	•	•	•			•	•	•			
Root	•					•	•						•				
Needle	•					•	•					•	•				
Wood	•					•	•	•	•								
Stem, Flower	•			•		•	•										•
Insects & Worms	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z
Tick, Fly	•			•				•	•								•
Nematode	•		•	•													•
Bee, Mosquito	•			•													•



MP BIOMEDICALS

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