



LABOVERITAS
LABORATORY DIAGNOSTIC SOLUTIONS

BEADS KITS FOR HOMOGENIZATION

Homogenization kits

Ref	Description	Application	Size
LVH-002A	Yttria-stabilized zirconia bead ZrO_2 95%, Y_2O_3 35%	Used for homogenization of all sample types, except soil, for the subsequent isolation of genomic DNA and proteins. achieves sample disruption faster than other beads due to the fact that particles have sharp cutting edges and give optimal results just a vortex. Inert material do not bind NA.	5,0mm
	Garnet grit $Fe_3Al_2(SiO_4)_3$		0,5-0,7mm
LVH-003B	Silica oxide beads SiO_2 >67%	Used for homogenization of spores, Gram +/-, bacteria, archaea, oocytes, prokaryotes. ideal for breaking open microorganisms such as bacteria, fungi, yeast, spores. Strong and inert ceramic beads are versatile for human, animal, plant tissue.	0,1mm
LVH-004	Silica oxide beads SiO_2 >67%	Used for homogenization of yeast and fungi, molds, spores and algae. ideal for breaking open microorganisms such as bacteria, fungi, yeast, spores	2,0mm
LVH-005D	Zirconium-Silicate beads ZrO_2 64%, SiO_2 33%	Used for homogenization of softer tissues like brain, liver, kidney, lung and spleen. It can also used to desintegrated plant tissue such a leaves, roots and fruits, cultured cells and whole insects. Strong and inert ceramic beads are versatile for human, animal, plant tissue.	1,2-1,6mm
LVH-006E	Silica oxide beads SiO_2 >67%	Used for homogenization of mixed samples, such as microbe infected tissue and can be used in RNA extraction from tumors and other difficult tissues. Used to grind soil, sediment, water, feces, sludge, compost. ideal for breaking open microorganisms such as bacteria, fungi, yeast, spores	0,1mm
	Zirconium oxide beads, ZrO_2 64%, SiO_2 33%		1,2-1,4mm
	Zirconium oxide beads ZrO_2 95%		5 mm
LVH-007F	Aluminum Oxide grit Al_2O_3	Used for homogenization of animal and plant tissues and lyse bacteria and fungi. is effective at breaking tough, hard, or brittle cell membranes. Effective for applications such as RNA and protein isolation. Softer then LVH-002A	1,6mm
	Silicon Carbide grit SiC		1,6mm
LVH-008G	Silicon Carbide grit SiC	Used for homogenization brittle animal and plant tissues and lyse yeast and fungi. ideal for breaking open microorganisms such as bacteria, fungi, yeast, spores	1,6mm
	Silica oxide beads SiO_2 >67%		2,0mm
LVH-009H	Zirconium oxide beads ZrO_2 95%	Used for homogenization brittle animal and plant tissues and lyse yeast and fungi. Effective at breaking very tough and hard samples, can also be used to isolate RNA and Proteins from bacterial aggregates, biofilms and whole insects. Seeds, animal tissues, plants, soil, bacteria, dried samples, clay, wood.	1,7 – 2,3 mm
	Silica oxide beads SiO_2 >67%		2,0 mm



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LVH-010I	Zirconia oxide beads ZrO_2 95%,	Used for homogenization of seeds, spores, animal tissues, plants, soil, ancient and dried samples, clay, wood		1,7 – 2,3 mm
	Silica oxide beads SiO_2 >67%			3,7 – 4,2 mm
LVH-011J	Zirconium oxide beads, ZrO_2 95%, MgO 5%	Used for homogenization of Gram +/- bacteria, tissues, fungi, plants, fixed samples, mold		1,7 – 2,3 mm
	Aluminum Oxide grit Al_2O_3			1,6 mm
LVH-012K	Zirconium silicate beads ZrO_2 68%, SiO_2 32%	Used for homogenization of hard samples- bone, spores, animal tissues, fixed samples, dried samples		0,8 – 1,0 mm
LVH-013M	Yttria-stabilized zirconia beads ZrO_2 95%, Y_2O 35%	Used for homogenization of hard animal and plant tissues and to isolate intact viruses from infected tissues. Is used to break hard and brittle samples. This includes RNA extraction from difficult samples where lysis by impactation only is preferable with minimal amounts of mechanical shearing.		5,0 mm (1pc)
LVH-014S	Stainless steel beads 6 pcs	Used for homogenization of bone, heart, lung, seeds, skeletal muscle, spores, food, plants, fixed samples, tough tissues, all samples		3,0mm (6pcs)
LVH-015Y	Yttria-stabilized zirconia beads ZrO_2 95%, Y_2O 35%	Used for homogenization of spores, bacteria (Gram +/-), yeast, algae, archaea, oocytes, prokaryotes, fungal culture		0,4 – 0,6 mm
LVH-016Z	Yttria-stabilized zirconia beads ZrO_2 95%, Y_2O 35%	Used for homogenization of animal tissues, cultured cells, kidney, liver, plant tissue, soft tissue		1,5 – 2,0 mm
LVH-017T	Tungsten Carbide with Zirconium Oxide/ Yttrium stabilized beads	Energy- efficient grinding. Carbide matrix is highly effective when isolating RNA from microbes or soil		0,7-0,9 mm
LVH-001L	Zirconium Oxide beads, Cerium stabilized	Used to break hard and brittle samples. This includes RNA extraction from difficult samples where lysis by impactation only is preferable with minimal amounts of mechanical shearing. Strong and inert ceramic beads are versatile for human, animal, plant tissue. Large beads can be used to process RNA from tissues and plants challenging samples, such as fresh bones.		1,2-1,4 mm



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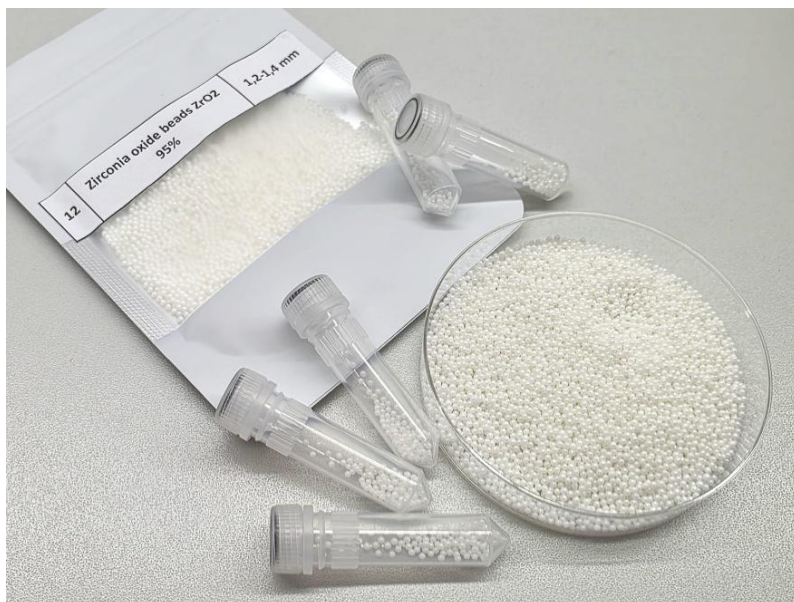
LVH-018N	Garnet grit $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$	Used for homogenization of spores, bacteria (Gram +/-), yeast, algae, archaea, oocytes, prokaryotes, fungal culture. achieves sample disruption faster than other beads due to the fact that particles have sharp cutting edges and give optimal results just a vortex. Inert material do not bind NA		0,7mm
LVH-019NN	Garnet grit $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$	Used for homogenization of spores, bacteria (Gram +/-), yeast, algae, archaea, oocytes, prokaryotes, fungal culture. achieves sample disruption faster than other beads due to the fact that particles have sharp cutting edges and give optimal results just a vortex. Inert material do not bind NA		0,15mm
LVH-020P	Zirconium oxide beads ZrO_2 95%	Used for homogenization of animal tissues, cultured cells, kidney, liver, plant tissue, soft tissue. Strong and inert ceramic beads are versatile for human, animal, plant tissue. Large beads can be used to process RNA from tissues and plants challenging samples, such as fresh bones.		2,8 mm
LVH-021R	Silica oxide beads SiO_2 >67%	Used for homogenization of spores, bacteria (Gram +/-), yeast, algae, archaea, oocytes, prokaryotes, fungal culture		0,5mm
LVH-023O	Black silicone carbide beads SiC	Used for homogenization of spores, bacteria (Gram +/-), yeast, algae, archaea, oocytes, prokaryotes, fungal culture. Carbide matrix is highly efective when isolating RNA from microbes or soil		0,2-0,3mm
LVH-024SS	Stainless steel beads 1pc	Used for homogenization of bone, heart, lung, seeds, skeletal muscle, spores, food, plants, fixed samples, tough tissues, all samples		3,0mm (1pc)



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