

Low Binding Beads

Grinding Beads for Disrupting Yeast, Molds, and Bacteria

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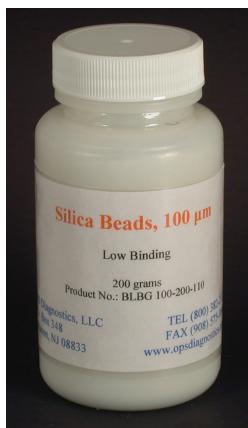
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Sample Preparation Products



Less DNA, RNA, and protein stick to the beads, resulting in higher yields and more sensitive assays

100 µm Zirconium
100 µm Silica
200 µm Zirconium
400 µm Silica
800 µm Silica

Benefits

- ❖ Read to use beads, chemically treated to bind less solutes
- ❖ Baked to fully decontaminate prior to use
- ❖ Made from acid washed beads; silica and zirconium dusts and fines removed
- ❖ Available in multiple sizes which are suitable for grinding bacteria, small and large yeasts, filamentous fungi, algae, and pollen

Relative Enzyme Activity Liberated from *Saccharomyces* Homogenized with Low Binding and Acid Washed Beads



Description

Low Binding Beads are chemically treated so they bind less solutes liberated from homogenized samples. Untreated silica and zirconium beads have surface chemistries that bind DNA, RNA, and proteins upon disruption of cells. Both enzyme and PCR-based assays have lower sensitivity when analytes are liberated using untreated beads. Low Binding Beads yield a greater concentration of solutes and provide greater range and linearity, especially in real-time PCR assays.

Diagnostics now offers pre-filled tubes using our grinding media. Each tube contains 325 µl of Low Binding Beads in a 2 ml screw-cap microfuge tube. This allows for the homogenization of 650 µl sample, typically microorganisms, while allowing for the required headspace for efficient disruption by vortexing or bead beating.

Low Binding Beads

Low Binding Beads (bottles)

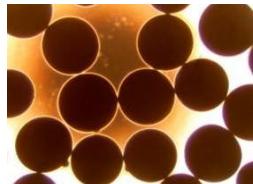
	Product Number	Price
100 μ m Zirconium Beads, Low Binding (250 gm)	OP-BLBZ 100-250-14	\$182
100 μ m Silica Beads, Low Binding (200 gm)	OP-BLBG 100-200-11	\$130
200 μ m Zirconium Beads, Low Binding (250 gm)	OP-BLBZ 200-250-09	\$182
400 μ m Silica Beads, Low Binding (200 gm)	OP-BLBG 400-200-06	\$130
800 μ m Silica Beads, Low Binding (200 gm)	OP-BLBG 800-200-03	\$130

Low Binding Beads (pre-filled tubes)

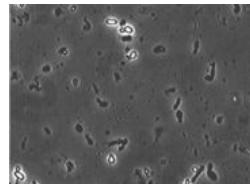
	Product Number	Price
100 μ m Silica Beads, Low Binding (100/bag)	OP-PFLB 100-100-06	\$103
100 μ m Zirconium Beads, Low Binding (100/bag)	OP-PFLB 100-100-07	\$103
200 μ m Zirconium Beads, Low Binding (100/bag)	OP-PFLB 200-100-08	\$103
400 μ m Silica Beads, Low Binding (100/bag)	OP-PFLB 400-100-09	\$103
800 μ m Silica Beads, Low Binding (100/bag)	OP-PFLB 800-100-10	\$103



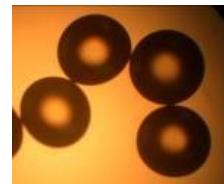
Available in pre-filled tubes!



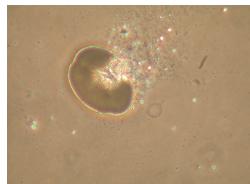
Solid Zirconium Beads (100X)



Yeast ghosts from disruption with 400 μ m Silica Beads (200X)



Translucent Silica Beads (100X)



Pollen cracked with 800 μ m Silica Beads (100X)

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