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MAGNALINK® STREPTAVIDIN MAGNETIC BEADS (2.8 MM)

SKU: M-1003



DESCRIPTION

MagnaLINK 2.8 µm Streptavidin Magnetic Beads offer the highest biotin binding capacity on the market, combined with exceptional size uniformity. Higher binding translates to reduced bead mass required to immobilize a biotinylated sample and lower background from nonspecific binding, resulting in better signals and lower costs. MagnaLINK Streptavidin Magnetic Beads are 2.8 micron diameter, super-paramagnetic, hydrophilic polymer–encapsulated (no exposed iron), monodispersed microspheres with a uniform size distribution and a fast (<2 min) magnetic response time. They are colloidally stable with or without non-ionic detergents. The key to high biotin binding is in the unique covalently crosslinked streptavidin, based on ChromaLINK® technology. The high surface area, when combined with our efficient linking chemistry, produces a consistent product with a free biotin binding capacity of at least 12 nmol per milligram of beads. MagnaLINK beads also demonstrate exceptional size uniformity of <5% CV, as evidenced by scanning electron microscopy (SEM). These combined technologies make MagnaLINK beads the ideal magnetic bead for high-throughput robotic applications.

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SPECIFICATIONS

Bead Size	2.8 µm
Loading Capacity	≥ 10 nmol/mg
Reactivity	Biotin
Storage Instructions	2° – 8°C – Do Not Freeze

TECHNICAL INFORMATION

Product Description

MagnaLINK Streptavidin Magnetic beads are highly uniform, 2.8 µmeter polymer-encapsulated (no exposed iron), super-paramagnetic beads containing covalently cross-linked streptavidin (Figure 1). MagnaLINK streptavidin magnetic beads are made by covalently cross-linking streptavidin to a hydrophilic surface using the SoluLINK conjugation technology. The high surface area of these paramagnetic beads when combined with the efficient SoluLINK linking technology produces the most consistent and highest biotin binding capacity (≥10 nmol/mg) of any uniform streptavidin magnetic bead on the market. Beads are supplied at 1% solids (10 mg/mL) in nuclease-free water with 0.05% sodium azide.

Features of our MagnaLINK beads

- Highest free biotin binding capacity of any uniform bead (≥ 10 nmol/mg)
- Binds 0.8 nmol/mg biotinylated oligonucleotide
- Binds 0.75 nmol/mg biotinylated-IgG @ 4 biotins/IgG
- Beads are encapsulated (no exposed iron)
- Paramagnetic beads are highly uniform in size (2.8 ± 0.2 microns)
- Fast magnetic response time (18% magnetite content)

Binding Capacity Comparison: MagnaLINK Streptavidin Magnetic Bead Vs. Competitor's Bead of Similar Size

Ligand	MagnaLINK 2.8 µm Binding Capacity	Competitor's 2.8 µm Bead Binding Capacity

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Free biotin	≥ 10 nmol/mg	0.90 nmol/mg
Biotinylated Oligo (23-mer)	≥ 0.8 nmol/mg	N/A
Biotinylated IgG (4 biotins per IgG)	750 pmol/mg (113 µg/mg)	60 pmol/mg (10 µg/mg)

MagnaLINK References:

1. Moore R, Worrallo M, Mitchell P, Harriman J, Glen K, Thomas R. Immobilisation of Delta-like 1 ligand for the scalable and controlled manufacture of hematopoietic progenitor cells in a stirred bioreactor. *BMC Biotechnology* volume 17, Article number: 65 (2017).

CITATIONS

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DOCUMENTS

- Bioconjugation White Paper
- User Guide
- Safety Data Sheet
- Download CoA
- Datasheet

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