



Magnetic Microspheres

For Molecular Diagnostics

Magnetic Microspheres for Nucleic Acid Extraction

This series of magnetic microspheres have excellent capture ability and elution efficiency for nucleic acids, and are specially designed for nucleic acid extraction and purification. VDO Biotech's magnetic microsphere series integrates the advantages of excellent dispersion, low non-specific binding and fast magnetic response. It is suitable for nucleic acid extraction of various sample types and could meet the requirements of automatic equipment extraction. It is an ideal choice for nucleic acid extraction and purification of biological samples.



Features

- Large specific surface area Enhanced binding capacity
- Superparamagnetic Excellent resuspension
- Special surface modifications Improved adsorption capacity and easier elution
- Rapid magnetic response Fast magnetic adsorption speed, no magnetic residue
- Production capacity is up to >100L/batch Batch-to-batch consistency, high reproducibility
- Variety selections of diameters and surface groups Applicable to various types of samples

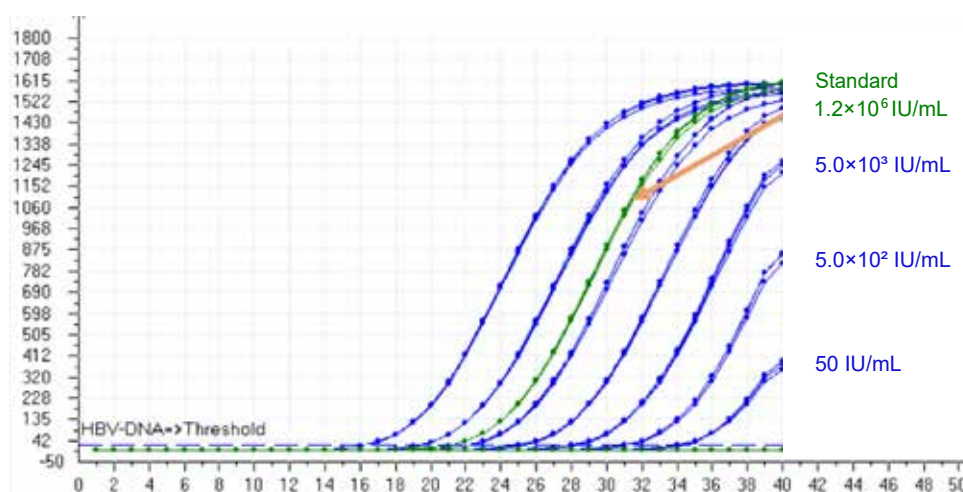


Technical Parameters

Composition:	Iron oxide (Fe ₃ O ₄)
Dispersion medium:	DI water
Particle refractive index:	NA
Particle Size:	50nm-2µm
Additive:	Contains trace amount of surfactant
Storage condition:	Store at 2-25°C, do not freeze

Case Study:

Nucleic acid extraction using VDO Biotech's magnetic microspheres



- ▲ HBV samples were diluted to different concentrations with serum. The sample can still be detected stably when the concentration is as low as 50 IU/ml.

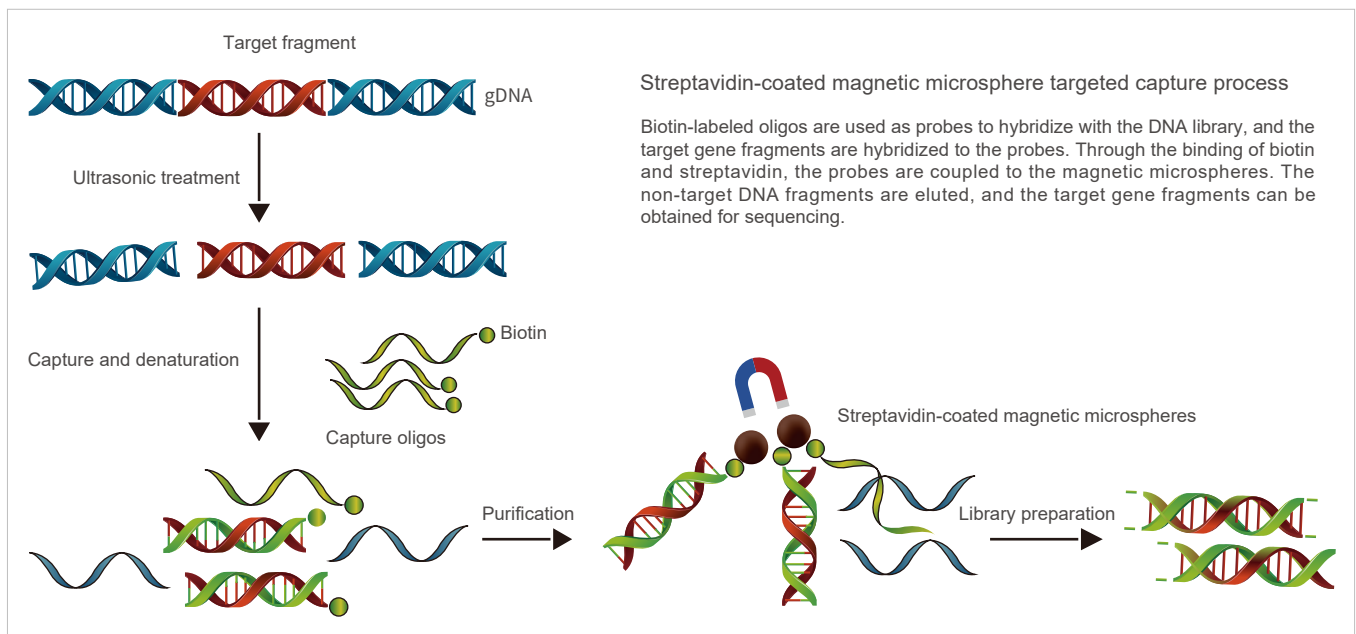
Streptavidin (SA)-coated Magnetic Microspheres for Targeted DNA/RNA Capture



Features

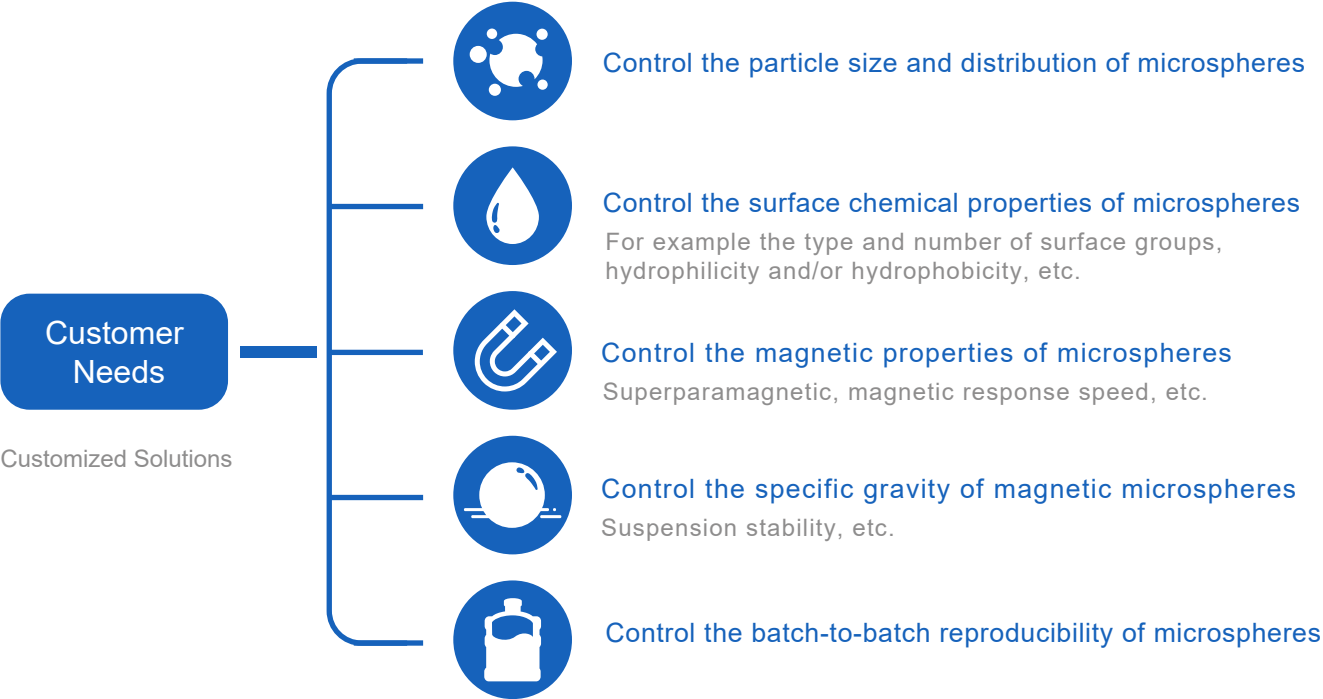
- Superparamagnetic Excellent resuspension
- Hydrophilic surface Low non-specific binding
- Uniform diameter, CV < 5% High reproducibility
- Coated with streptavidin(SA) Effectively binds biotinylated derivatives
- Large scale production Batch-to-batch consistency, superior quality with consistent test results

Streptavidin-coated magnetic microsphere targeted capture process



Customized Overall Solution

VDO Biotech provides customized solutions according to customers' specific needs.



Microsphere OEM services for global customers

Large scale protein-microsphere conjugation services

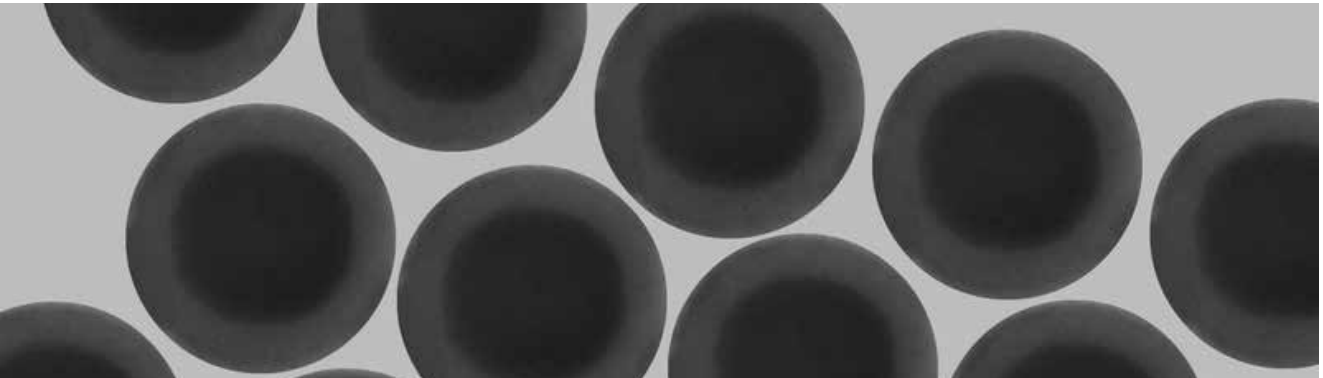
OEM services of microsphere intermediates



High quality microspheres of nanometer and micrometer level

Customized microsphere services

Overall solution for microsphere applications



Ordering Information:

Magnetic Microspheres for Nucleic Acid Extraction

Cat. No.	Color	Surface Groups	Solids	Selected Applications
MS02H	Brownish black	OH	2.5%	Viral nucleic acid extraction
MA200H	Brownish black	OH	2.5%	cfDNA extraction PCR products purification
MA0308C	Brownish yellow	COOH	2.5%	Viral nucleic acid extraction
MA0309C	Brownish yellow	COOH	2.5%	Nucleic acid extraction of swine fever virus
MS05HC	Brownish yellow	OH	2.5%	Viral nucleic acid extraction cfDNA extraction PCR products purification
MS05HE	Brownish yellow	OH	3.0%	Viral nucleic acid extraction
MS04T	Brownish yellow	Oligo(dT)	1.0%	mRNA extraction from animal and plant samples

The magnetic microsphere products above are all available in 10ml, 100ml, and 1L.

Magnetic Microspheres for Targeted DNA/RNA Capture

Streptavidin-coated Magnetic Microspheres

Cat. No.	Particle Size	Color	Surface Groups	Solids	Size
NMP0600SA	0.6µm	Brownish yellow	SA	1.0%	10ml, 100ml, 1L
NMP1001SA	1µm	Brownish yellow	SA	1.0%	10ml, 100ml, 1L
NMP1003SA	3µm	Brownish yellow	SA	1.0%	10ml, 100ml, 1L

Inspiring & Enabling Life Science Innovation



Suzhou Vdo Biotech Co., Ltd.

Tel: +86-512-80905220

Email: vdo@vdobiotech.com

Fax: +86-512-80905230

Add: Building C18 Biobay, 218 Xinghu Street,

Web: www.vdobiotech.com

SIP, Suzhou, 215123, China