

## BeaverBeads™ OH

### Product Introduction

BeaverBeads™ Mag -OH magnetic beads are specially designed for nucleic acid extraction and purification, with a large amount of silanol groups. The nucleic acid can be combined by hydrophobic effect, hydrogen bonding and electrostatic action in the solution of high salt and low pH, but won't combined with other impurities (such as protein), it quickly separates nucleic acids from biological samples and operates safely and easily, which is very helpful for the automation of nucleic acid and high-throughput extraction.

BeaverBeads™ Magrose -OH is the magnetic agarose beads modified by hydroxyl. Compared with the traditional magnetic beads, Magrose -OH has faster magnetic responsiveness in suspension. At the same time, Magrose -OH can maintain good dispersibility, low non-specific adsorption and more binding spots features. It can be modified into epoxies, carboxyl groups and amino groups under the special chemical reagents. Polypeptide, protein, oligonucleotide and other bio ligand covalent can be coupled to Magrose -OH surface, so it is an important carrier of the medical and molecular biology research tool.

### Product Information

Product name	Mag OH-500	Mag OH-1000	Magrose OH
Mean particle size	500nm single dispersion	1000 nm	30~150 μm
Magnetic core	Fe <sub>3</sub> O <sub>4</sub>	Fe <sub>3</sub> O <sub>4</sub>	Fe <sub>3</sub> O <sub>4</sub>
Shell	Silica	Silica	Magrose
Magnetic	superparamagnetism	superparamagnetism	superparamagnetism
Saturation magnetization	53.51 emu/g	40.37 emu/g	/
Specific Surface Area	25.36 m <sup>2</sup> /g	9.06 m <sup>2</sup> /g	/
Shelf Life	2 years, store at 2 °C~8 °C (long term preservation)		
* water average particle size, Malvern Nano determination			

### Product Advantages

1. Super paramagnetic and high magnetic responsiveness, saving operation time.
2. Good dispersibility and heavy suspension, which is conducive to efficient combination and recovery of nucleic acid.
3. Good physical and chemical stability to ensure repetitive effects.

### Note

1. This product should not be frozen, dried or centrifuged. Freezing, drying and centrifugation will cause the beads to agglomerate, not easy to resuspend and disperse, and affect the chemical activity of beads surface functional group.
2. Before using this product, be sure to fully oscillate or ultrasonic to keep the beads in a uniform suspension.
3. This product must be used with magnetic separation equipment.
4. This product is for research use only.

### Product list

NO.	Product name	Specification	Size	Concentration
70301-5	BeaverBeads™ Mag OH-500	5mL	500 nm	10 mg/mL
70301-50	BeaverBeads™ Mag OH-500	50mL	500 nm	10 mg/mL
70302-5	BeaverBeads™ Mag OH-1000	5mL	1000 nm	10 mg/mL
70302-50	BeaverBeads™ Mag OH-1000	50mL	1000 nm	10 mg/mL
70302-1000	BeaverBeads™ Mag OH-1000	4*250 mL	1000 nm	10 mg/mL
70303-5	BeaverBeads™ Mag OH-1000	5mL	1000 nm	20 mg/mL
70303-50	BeaverBeads™ Mag OH-1000	50mL	1000 nm	20 mg/mL
70802-10	BeaverBeads™ Magrose OH	10mL	30~150μm	50% (v/v)
70802-100	BeaverBeads™ Magrose OH	100mL	30~150μm	50% (v/v)
70802-1000	BeaverBeads™ Magrose OH	1000mL	30~150μm	50% (v/v)

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