

## Silica Mag Beads COOH SC (300 nm)

### Description

TargetMol Silica Magnetic Beads are specifically designed for the extraction and purification of nucleic acids. The bead surface is composed of high-purity silica, enriched with silanol groups (hydroxyl) or carboxyl groups. Under high-salt and low-pH conditions, these beads achieve efficient and specific binding with nucleic acid molecules through hydrophobic interactions, hydrogen bonding, and electrostatic interactions. Simultaneously, they exhibit minimal adsorption of proteins and other impurities, enabling the rapid separation and purification of nucleic acids from complex biological samples. The product features a simple operation process and high safety, making it suitable for both manual operations and automated platforms, particularly for high-throughput nucleic acid extraction applications.

### Product Information

Product Name	Silica Mag Beads COOH (500 nm) (C0225)	Silica Mag Beads COOH S (500 nm) (C0226)	Silica Mag Beads COOH NS (500 nm) (C0227)	Silica Mag Beads COOH SC (300 nm) (C0228)	Silica Mag Beads COOH PC (300 nm) (C0229)
Mean Particle Size	450-550 nm	500 nm	300-500 nm	300 nm	300 nm
Magnetic Core	Fe <sub>3</sub> O <sub>4</sub>				
Magnetic Shell	Silica				Polymer
Magnetic Type	Superparamagnetic				
Saturation Magnetization	~40 emu/g	50 emu/g	50 emu/g	40 emu/g	50 emu/g
Specific Surface Area	/	25.36 m <sup>2</sup> /g	/	/	/
Concentration	50 mg/mL	10 mg/mL	10 mg/mL	50 mg/mL	50 mg/mL
Storage Solution	20% Ethanol	50 mM NaCl (Sterile water)	20% Ethanol	20% Ethanol	Purified water, 0.05% (V/V) Proclin-300

### Product Features

1. Excellent superparamagnetism and rapid magnetic response: Effectively shortens operation time.
2. Superior dispersibility and resuspension performance: Beneficial for improving nucleic acid binding efficiency and recovery rate.
3. Stable physical and chemical properties: Helps ensure the reproducibility and reliability of experimental results.

### Applications

1. Purification and recovery of PCR products.
2. Extraction and purification of plasmid DNA.
3. Separation and extraction of viral nucleic acids.
4. Extraction of genomic DNA from various samples including blood, tissue, plants, and microorganisms.
5. Magnetic bead-based protein purification.

### Storage

4°C, 2 years.

### Precautions

1. Avoid freezing, drying, or high-speed centrifugation of the magnetic beads.
2. To minimize bead loss, the duration of each magnetic separation should not be less than 1 minute.
3. Before taking beads from the storage tube, shake thoroughly to ensure uniform suspension. Avoid bubble formation during operation.
4. The product is for R&D use only, not for diagnostic procedures, food, drug, household or other uses.
5. Please wear a lab coat and disposable gloves.

#### TargetMol US

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