

Mag Beads

For Research Use Only

Cat. No.: N8011, N8021, N8031, N8041

Product Specifications

Type	Mag Beads A	Mag Beads B	Mag Beads C	Mag Beads D
Cat. No.	N8011/N8011-2	N8021/N8021-2	N8031/N8031-2	N8041
Size	380ml/800ml	380ml/800ml	380ml/800ml	100ml
Concentration	100mg/ml	60mg/ml	40mg/ml	10mg/ml
Form	Amorphous and Porous	Amorphous and Porous	Porous	Nonporous
Surface Function	Si-OH, Silica Beads	Si-OH, Silica Beads	Si-OH, Silica Beads	COOH, Carboxyl Beads
Dispersion	Polydisperse	Polydisperse	Monodisperse	Monodisperse
Particle Size	2~10 μm	0.5~2 μm	2 μm	1 μm
Color	Black	Yellow	Brown	Yellow
Magnetic Response	Fast	Fast	Medium	Slow
Settling Time (1ml)	>3min	>3min	>4min	>30min
Usage (0.2ml Sample)	20 μl	20 μl	20~30 μl	20~30 μl
DNA Recover Rate (only 4M GITC)	>80%	>80%	>90%	<10%
DNA Recover Rate (10% PEG8000/NaCl)	>80%	>80%	>80%	>90%
Recommended Use	<ul style="list-style-type: none"> gDNA/RNA Isolation from Blood, Tissue, Plant, Swab, Spots, Stool, Soil and etc Viral DNA/RNA Isolation Agarose Gel DNA Purification 	<ul style="list-style-type: none"> DNA/RNA Isolation from low nucleic acid content samples Plasmid Isolation DNA/RNA Clean Up 	<ul style="list-style-type: none"> Circulating DNA Isolation Viral Nucleic acid Isolation gDNA Isolation FFPE DNA/RNA Isolation 	<ul style="list-style-type: none"> DNA/RNA Clean Up and concentration DNA/RNA Isolation from low nucleic acid content samples Research immunoassays

Description

The Mag Beads is silica-based magnetic beads, and is designed for DNA/RNA extraction and purification. The surface of the beads has a large number of silanol group (hydroxyl) or carboxyl group. Magnetic beads can bind nucleic acids in solution under high salt and low pH conditions through hydrophobic action, hydrogen bonding and electrostatic action, but do not bind with other impurities (such as protein), and quickly separate nucleic acids from biological samples. The operation is safe and simple, which is very conducive to the automatic and high-throughput extraction of nucleic acids.

Features

1. Flexible: manual or automatic high-throughput DNA/RNA isolation
2. Fast magnetic response: only 3 seconds for complete separation
3. High yields: up to 10 µg of genomic DNA from 200 µL of whole blood
4. High purity: isolated DNA/RNA is immediately ready-to-use in downstream application such as sequencing, in vitro transcription, restriction enzyme digestion, and transfection of robust cell lines
5. Reproducible results and lot to lot consistency: CV < 5%

Storage Condition

Store at room temperature, up to 2 years. It is recommended to store it at 2-8°C to prevent microbial growth.