

Cat. No. MF-SIL-5010/MF-SIL-5024

Qbeads-Silica

Product description

Qbeads-Silica is Fe₃O₄ magnetic beads coated with a silicon dioxide (SiO₂) layer. Since silica is able to bind to the nucleic acids, Qbeads-Silica serves as simple and efficient tool for plasmid DNA purification for transfection or sequencing applications, genomic DNA purification for research or clinical applications, RNA purification for qPCR analysis, or PCR product clean-up for downstream analysis.

Specifications

- I. Core material: Fe₃O₄
- II. Surface coating: silica (SiO₂)
- III. Concentration: 20 or 50 mg/ml

Additional material required

- Binding Buffer, pH 8.0
 - 4 M Guanidinium thiocyanate
 - 40 mM Tris
 - 17.6 mM EDTA
- Wash Buffer, pH 8.0
 - 10 mM Tris-HCl buffer
 - 1 mM EDTA
 - 70 % EtOH
- Elution Buffer, pH 8.0
 - 10 mM Tris-HCl
 - 1 mM EDTA

Protocol

Preparation of the beads for use

1. Resuspend the Qbeads-Silica thoroughly by pipetting or vortex the vial.
2. Transfer adequate amount of Qbeads-Silica into a clean tube.
3. Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
4. Discard the supernatant by aspiration with a pipette.
5. Remove the tube from magnetic stand.
6. Add 100 μL Elution Buffer (or ddH₂O) and resuspend the beads by pipetting or vortex.
7. Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
8. Discard the supernatant, and then remove the tube from the magnetic stand.
9. Repeat steps 6-8 twice.
10. Ready for purification of nucleic acid.

Purification of nucleic acid

11. Mix 10 μL sample and 90 μL Binding Buffer with magnetic beads thoroughly by pipetting.
12. Incubate with tilt rotation for 2 minutes at room temperature.
13. Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
14. Discard (or collect) the supernatant as unbound substances by aspiration with a pipette, and then remove the tube from the magnetic stand.
15. Add 100 μL Wash Buffer and resuspend the beads by pipetting.
16. Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
17. Discard (or collect) the supernatant as unbound substances, and then remove the tube from the magnetic stand.
18. Repeat steps 15-17 twice.
19. Air-dry with shaking 5 ~ 20 min.
20. Proceed to elution of nucleic acid.

Elution of nucleic acid

21. Add 10-100 μL Elution Buffer (or ddH₂O) and resuspend the beads complex by vortex or shaking.
22. Incubate with tilt rotation for 3 minutes at room temperature.
23. Place the tube on the magnetic stand for 30-60 seconds and collect the supernatant to a clean tube.

Storage

Please keep the reagent at room temperature. The validity is warranted for 2 years. It's suggested to keep at 2-8 °C, if the bottle is open.

Contact Information

Please contact us when you have any question or comments via e-mail: info@magqu.com, or phone: +886-2-8667-1897.

Remarkable Notes

1. Please keep the reagent away from magnets during storage.
2. Do not freeze.
3. Qbeads-Silica is for research use only.



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Product Information

Magnetic Qbeads Series

Products	Cat. No.
Qbeads-Protein A	MF-PRA-3000
Qbeads-Protein G	MF-PRG-3000
Qbeads-NTA-Ni	MF-HIS-3000
Qbeads-Streptavidin	MF-STA-3000
	MF-SIL-5010
Qbeads-Silica	MF-SIL-5024
Qbeads-Hydroxyl	MF-DEX-3000
Qbeads-Carboxyl	MF-COO-3000
Qbeads-Amine	MF-NHH-3000
Qbeads-Carboxyl Labeling Kit	KT-COO-3000-5SE

Accessory

Products	Description	Cat. No.
Magdorf	for 1.5 ml eppendorf tube	MDF-08
	for 15 ml falcon tube	MSD-15
Magstand	for 50 ml falcon tube	MSD-50
	for 96-well culture plates	MTR-96
Magtractor	for 24-well culture plates	MTR-24
	for 6-well culture plates	MTR-06

Magnetic NanoParticle Series

Products	Particle size	Cat. No.
	30 nm	MF-DEX-0030
Magnetic Fluid- Hydroxyl	60 nm	MF-DEX-0060
	90 nm	MF-DEX-0090
	30 nm	MF-COO-0030
Magnetic Fluid- Carboxyl	60 nm	MF-COO-0060
	90 nm	MF-COO-0090
	30 nm	MF-NHH-0030
Magnetic Fluid- Amine	60 nm	MF-NHH-0060
	90 nm	MF-NHH-0090

Customized Conjugation Service

Products	Particle size	Cat. No.
	3 μ m	MF-CCS-3000
Customized conjugated magnetic beads	30 nm	MF-CCS-0030
Antibody or peptide provided by customers (100 ug)	60 nm	MF-CCS-0060
	90 nm	MF-CCS-0090



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磁量生技股份有限公司

新北市 231 新店區中正路 538 巷 12 號 3 樓
電話 +886-2-8667 1897
傳真 +886-2-8667 1809
統一編號 28953128
電子郵件 info@magqu.com

MAGQU CO. LTD.

3F, No.12, Lane 538, Zhongzheng Rd., Xindian Dist.,
New Taipei City 231, Taiwan
TEL +886-2-8667 1897
FAX +886-2-8667 1809
Email info@magqu.com