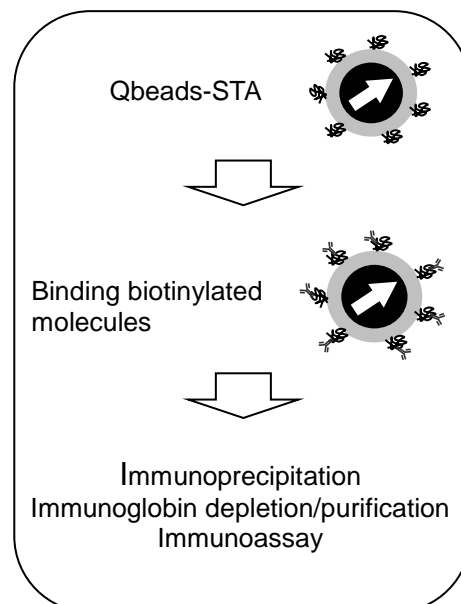


Cat.No. MF-STA-3000

Qbeads-Streptavidin

Product description

Qbeads-Streptavidin (Qbeads-STA) is designed as a rapid and simple tool for immunoprecipitation, purification/depletion assay, and other applications. Biotinylated molecules, such as nucleic acids, peptides and proteins can bind to Qbeads-STA easily. By applying magnetic attraction, Qbeads-STA-molecules complex will be temporarily immobilized at tube wall, so the other parts in supernatant can be removed easily and efficiently. The binding capacity of Qbeads-STA is about 12 nmole biotin per mL.



Material supplied

Qbeads-STA provides Fe_3O_4 beads coated with dextran of an average $\sim 1 \mu\text{m}$ in diameter. Streptavidin, about 60 kDa, is coupled covalently to dextran. Qbeads are supplied in phosphate buffered saline, pH 7.4, containing 0.02% Tween-20, 0.09% sodium azide and 10% glycerol.

Additional material required

- Qbeads-STA Washing Buffer

<i>Target molecules</i>	<i>Washing Buffer</i>
Nucleic acids	TE buffer
Proteins/ peptides/ others	PBS buffer (pH 7.4) with 0.02% Tween 20

- Magnetic stand: **Magdorf**(MDF-08) is suggested for the best performance
- Tilt rotation device or vortexer
- Eppendorf tubes & pipett

Storage

Please keep the reagent at 2-8°C. The validity is warranted for 6 months.

Protocol

Preparation Qbeads-STA for use

1. Resuspend the Qbeads-STA thoroughly by pipetting or vortexing the vial.
2. Transfer adequate volume of Qbeads-STA to 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 the magnetic stand.
6. Add 200 μ L Washing Buffer and resuspend the beads by pipetting.
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 Binding of biotinylated molecule.

NOTE: Qbeads-STA contains 0.09% NaN_3 , so we strongly recommend that wash the beads at least three times before use.

Binding of biotinylated molecule

11. Add adequate amount biotinylated molecule sample to the tube from step 10.
12. Incubate with tilt rotation for 30 minutes at room temperature.
13. Add 200 μ L Washing Buffer and resuspend the beads by pipetting.
14. Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
15. Discard the supernatant, and then remove the tube from the magnetic stand.
16. Repeat steps 13-15 for three times to remove unbound molecules.
17. Finally resuspend the beads-biotinylated molecule complex in Washing buffer.

Elution of biotinylated molecule

18. For elution of biotinylated-nucleic acids from Qbeads_STA.
 - 18.1 Remove Washing buffer from the tube.
 - 18.2 Add 200 μ L 10 mM EDTA (pH 8.2) solution with 95% formamide in the tube, and then resuspend the Qbeads_STA evenly.
 - 18.3 Incubate the tube at 65°C for 5 mins.
 - 18.4 Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
 - 18.5 Collect the supernatant to a new tube.
19. For elution of biotinylated-protein from Qbeads_STA.
 - 19.1 Remove Washing buffer from the tube.
 - 19.2 Add 200 μ L Washing buffer (PBS) with 0.1% SDS in the tube, and then resuspend the Qbeads_STA evenly.

20. 18.3 Incubate the tube at 95°C for 5 mins.
21. 18.4 Place the tube on the magnetic stand for 30-60 seconds to immobilize the beads at tube wall.
22. 18.5 Collect the supernatant to a new tube.

Trouble Shooting

Troubles	Solutions
Biotinylated molecule binding is low.	<ol style="list-style-type: none"> 1. Make sure the Qbeads are suspended thoroughly before use. 2. Mix Qbeads and sample thoroughly and continuously with either a tilt rotation device or a vortexer.
Qbeads do not collect on the magnet.	<ol style="list-style-type: none"> 1. Make sure the tube is directly contact with the magnetic stand. 2. Use Magdorf magnetic stand for best performance.

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 Qbeads-STA away from magnets during storage.
2. Do not freeze.
3. Qbeads-STA is for research use only.



MF-STA-3000-09.02.2015

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
Qbeads-Silica	MF-SIL-5010 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 magnetic separating column	MSD-01
Magstand	for 15 ml falcon tube	MSD-15
	for 50 ml falcon tube	MSD-50
Magtractor	for 96-well culture plates	MTR-96
	for 24-well culture plates	MTR-24
	for 6-well culture plates	MTR-06

Magnetic NanoParticle Series

Products	Particle size	Cat. No.
Magnetic Fluid- Hydroxyl	30 nm	MF-DEX-0030
	60 nm	MF-DEX-0060
	90 nm	MF-DEX-0090
Magnetic Fluid- Carboxyl	30 nm	MF-COO-0030
	60 nm	MF-COO-0060
	90 nm	MF-COO-0090
Magnetic Fluid- Amine	30 nm	MF-NHH-0030
	60 nm	MF-NHH-0060
	90 nm	MF-NHH-0090
NanoQ-Carboxyl Labeling Kit	60 nm	KT-COO-0060-1SE

Fluorescent Magnetic Nanoparticles

Products	Particle size	Cat. No.
Blue FluoroNanoQ	60 nm	MF-FBL-0060
Green FluoroNanoQ	60 nm	MF-FGR-0060
Red FluoroNanoQ	60 nm	MF-FRE-0060

Customized Conjugation Service

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



www.magqu.com

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