

NUCQX® Magnetic SpeedBeads (Low DNA)

Cat. no. LM18397

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Product Information

Product	NUCQX® Magnetic SpeedBeads (Low DNA)
Catalog No.	LM18397
Storage conditions	Stored at room temperature for two years.(Note: For long-term storage, recommended to store at 2~8 °C)
Size	1 mL / 10 mL / 100 mL / 500 mL

2. Product Description

The NUCQX® Magnetic SpeedBeads are superparamagnetic nano-Fe₃O₄ hydroxyl magnetic beads modified with a large number of silicon hydroxyl groups on the surface, which have the characteristics of high magnetic response, high dispersion, high suspension and high nucleic acid binding rate. Can be specifically combined with nucleic acid in a solution through hydrophobic interaction, hydrogen bonding interaction, electrostatic interaction and the like under the conditions of high salt and low pH, is not combined with other impurities (such as protein), can be quickly separated from a biological sample, and can be used for separating virus DNA/RNA in various samples such as serum/plasma/whole blood/saliva/urine, various protective solutions and the like, Plasma free DNA separation is safe and simple, and is very suitable for the automation and high-throughput extraction of nucleic acid.

3. Components

Components No.	Components Name	Components Volume
18397	NUCQX® Magnetic SpeedBeads	1 mL / 10 mL / 100 mL / 500 mL

4. Product characteristics

Composition	60~70% Fe ₃ O ₄ , 0~10% FeO and 30% SiO ₂
Appearance	Dark brown or black
Concentration	45~55 mg/ml
Hydrated average particle size	~500 nm
Magnetic core	Fe ₃ O ₄
Surface group	Silicon hydroxyl groups
Magnetic type	Superparamagnetic

Saturation magnetization	40-60 emu/g, in the magnetic bead preservation solution, the ordinary magnetic rack can complete the complete separation in 5-10 sec.
Suspensibility	Almost no settlement in 60 minutes
Preservation solution	Deionized water, 0.1% Proclin 300

5. Notes

- 5.1. Operations such as freezing, drying and centrifugation will lead to the agglomeration of magnetic beads, which is not easy to resuspend and disperse, and affect the chemical characteristics of functional groups on the surface of magnetic beads.
- 5.2. Before using this product, be sure to fully oscillate or ultrasonically to keep the magnetic beads in a uniform suspension state.
- 5.3. This product shall be used together with magnetic separation equipment.

6. Usage Instructions

For extracting viral nucleic acids from 200 μ L of serum / plasma / whole blood / nucleic acid preservation solution, or extracting cell-free DNA from 700 μ L of plasma, the recommended usage amount is 20 μ L.