



Viral Nucleic Acid Extraction Magnetic Particles

PRODUCT DATA SHEET

Viral Nucleic Acid Extraction Magnetic Particles

Description

Viral nucleic acid extraction magnetic particle is a core-shell structure of polydisperse magnetic microsphere, with magnetic material as the core, the surface after special treatment modified with silicon hydroxyl group, can be used as an important tool in molecular biology research, which has fast magnetic response speed, excellent suspension, outstanding hydrophilicity and satisfactory nucleic acid capture ability. Viral nucleic acid extraction magnetic particle is highly efficient in extracting nucleic acids from virus, pseudovirus particles and small fragments, and especially suitable for large-scale purification. Besides, compared with other technologies used for the same purpose, nucleic acid can be separated directly by viral nucleic acid extraction magnetic particles from crude materials such as blood, tissue homogenates, medium and water, which is suitable for nucleic acid extraction of various types of samples and meets the requirements of automated instruments, and is an ideal choice for biological sample purification and can be used for the diagnosis of viral infection. In addition, the particles are used for batch processing where there are almost no restrictions on sample volumes. Since the magnetic properties of the solid materials can be adjusted, they can be removed relatively easily and selectively even from viscous sample suspensions.

Abvigen Inc. offers a wide range of magnetic particles, including Viral Nucleic Acid Extraction Magnetic Particles. The product can be further flexibly adjusted according to customer requirements and use conditions to achieve customized supply.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com

Characteristics

Particle Size: ~150 nm

Material: SiO₂/Fe₃O₄

Surface: OH

Disperse Medium: DI water

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Additives: Trace amount of surfactant, 0.1% Proclin 300

Store: Storage at 2 - 25°C

Quality guarantee period: 36 months

Advantages

Large specific surface area: the high capability to combine with nucleic acid

High hydrophilic property: reduce the possibility of the beads adhering to the tube walls

Multiple sample compatibility: are suitable for the virus, pseudoviral and small nucleic acid fragment

Special chemical groups: the high capacity to adsorb nucleic acid and ease to elute

Notes

1 Do not freeze, more than 25°C should add a small amount of ice to maintain a suitable temperature, do not directly contact the ice with the magnetic beads;

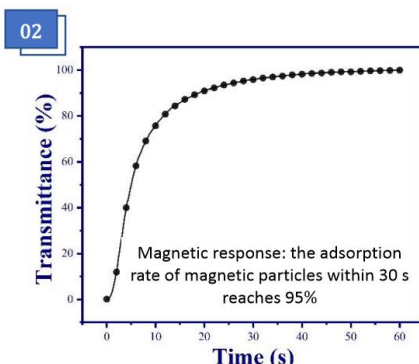
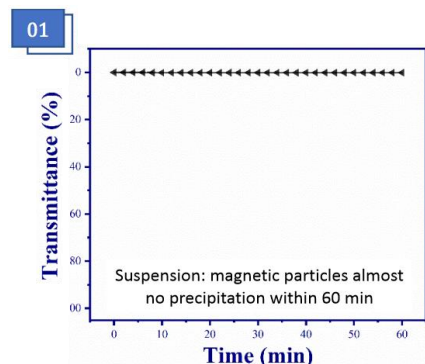
2 The magnetic bead should be fully oscillated before being used, and the bubble should be avoided during removal;

3 This product is only used for scientific research.

For 10 mg/ml of Viral Nucleic Acid Extraction Magnetic Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.15	10	1.09E+11	1.09E+12

Physicochemical properties



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The specific surface area is about 70 ~ 90 m²/g

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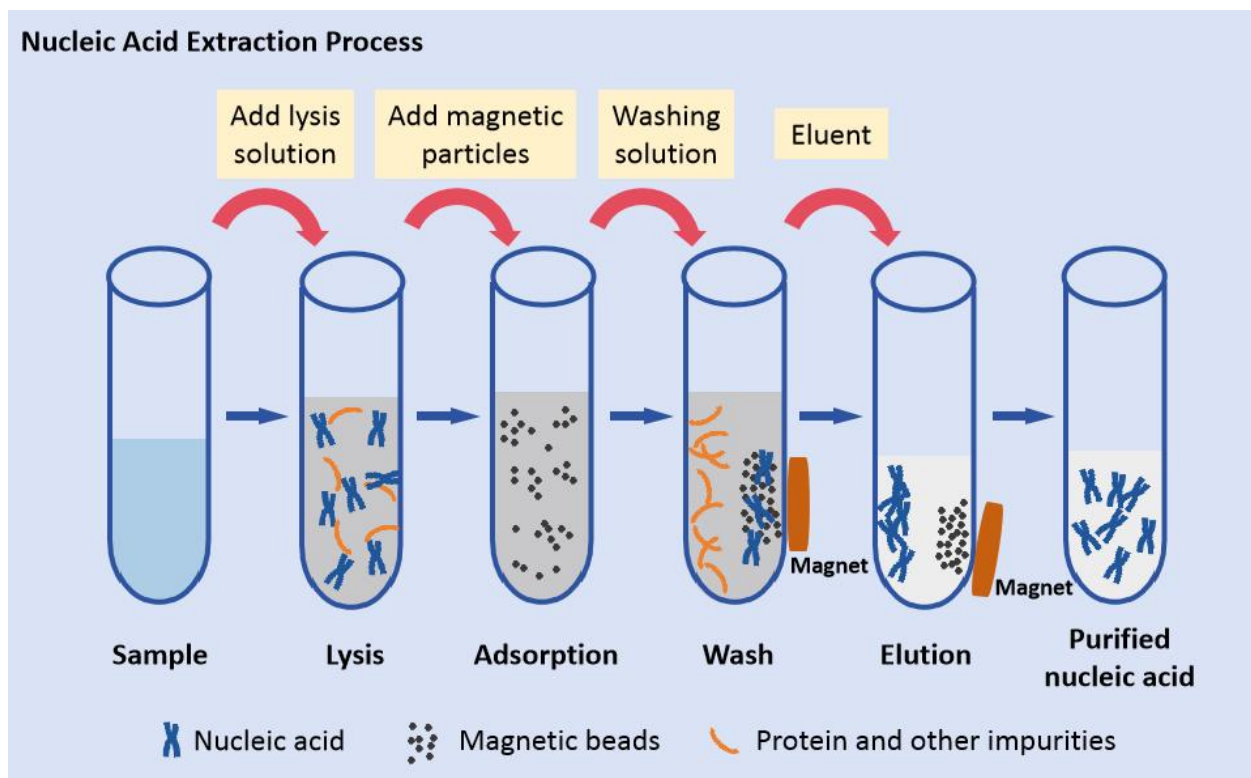
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Nucleic Acid Extraction Process

The nucleic acid binding to magnetic microspheres relies on electrostatic, hydrogen bond, hydrophobic effects. Utilizing the difference in the physical and chemical properties of nucleic acid and protein, after washing to remove impurities, the target nucleic acid is eluted under a low-salt solution. Nucleic acid extraction by magnetic microspheres consists of four steps: lysis, adsorption, washing, elution. As shown in the figure:



Ordering Information

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