

MagCore® Nudeic Acid Extraction Kits

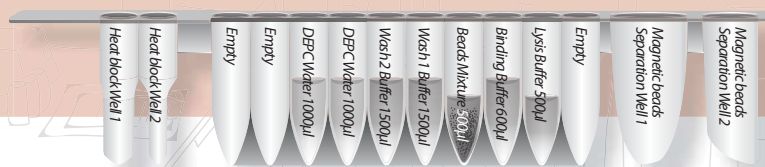


For extraction of viral DNA/RNA from serum, plasma and cell-free body fluids

The MagCore® Viral Nucleic Acid Extraction Kit is designed for purifying viral DNA and RNA from serum, plasma, and cell free body fluids. MagCore® magnetic particle technology delivers high-quality DNA/RNA that is suitable for direct use in downstream applications such as amplification or other enzymatic reactions. To minimize the risk of cross-contamination, plastic consumables inside the Kit are DNase/RNase treated and the operation system is designed to individually process samples at the same time. Multiple protocols are installed on the instrument and optimized for different sample volumes.

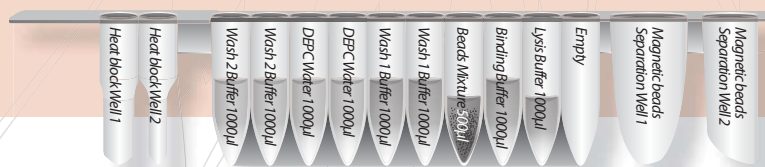
201

MagCore® Viral Nucleic Acid Extraction Kit



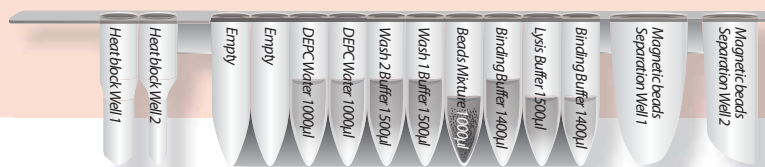
202

MagCore® Viral Nucleic Acid Extraction Kit (Low PCR Inhibition)



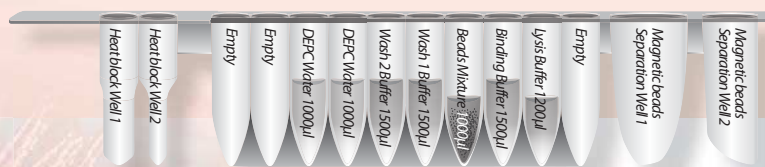
210

MagCore® Viral Nucleic Acid Large Volume Extraction Kit (2.4 ml)



211

MagCore® Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)



Features

1. High performance of purified DNA in downstream applications such as qPCR.
2. High analytical sensitivity.
3. Cartridges are pre-filled and sealed to prevent contamination.
4. Walkaway processing improves work efficiency.

Applications

MagCore® Viral Nucleic Acid Extraction Kit is designed to allow automated processing of multiple sample types in the same run. Sample types include:

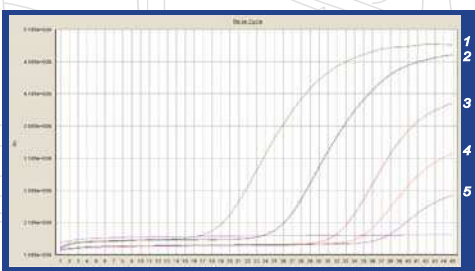
1. Cell-free body fluids
2. Plasma and serum
3. CSF
4. Urine



Performance

HBV detection by Real-Time PCR

The isolations of HBV nucleic acid from samples containing different concentrations of HBV were subsequently detected by Real-Time PCR



Sensitivity test for HBV detection

Lane 1	1x10 ⁹ HBV serums.
Lane 2	1x10 ⁸ HBV serums.
Lane 3	1x10 ⁷ HBV serums.
Lane 4	1x10 ⁶ HBV serums.
Lane N	Negative control.
Lane M	RBC 100 bp DNA Ladder Marker.

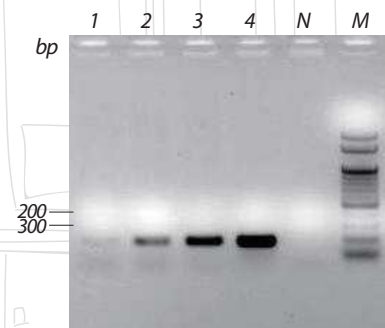


Figure 1. Nested PCR results of HBV at different concentrations. Viral nucleic acids were purified from samples containing different amount of HBV using MagCore® Viral Nucleic Acid Extraction Kit.

Sensitivity test for HCV detection

Lane 1	5x10 ⁹ HCV serums.
Lane 2	5x10 ⁸ HCV serums.
Lane 3	5x10 ⁷ HCV serums.
Lane 4	5x10 ⁶ HCV serums.
Lane 5	5x10 ⁵ HCV serums.
Lane 6	5x10 ⁴ HCV serums.
Lane P	Positive control.
Lane N	Negative control.
Lane M	RBC 100 bp DNA Ladder Marker.

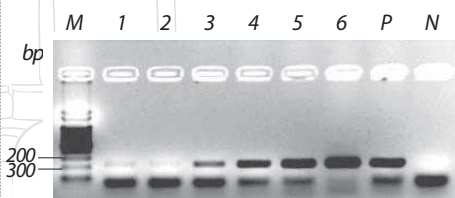


Figure 2. Nested PCR results of HCV at different concentrations. Viral nucleic acids were purified from samples containing different amount of HCV using MagCore® Viral Nucleic Acid Extraction Kit.

MagCore® Automated Nucleic Acid Kits Specification

MagCore® Super/HF16Plus/PlusII

Cartridge Code	Cat No.	Cat No.	Cat No.	Running Time	Cat No.	Cat No.	Cat No.	Running Time
	36preps	72preps	96preps		36preps	72preps	96preps	

201

MagCore® Viral Nucleic Acid Extraction Kit

For 200 and 400 µl sample volumes.

Contents: Pre-Filled Cartridges, Proteinase K, PK Storage Buffer, Carrier RNA, Rnase Free Water, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes

Shelf life: 18 months

MVN400-01	MVN400-02	44 min (sample volume:200 µl) 55 min (sample volume:400 µl) *optical detection is not provided	MVN400-01	MVN400-02	45 min (sample volume:200 µl) 56 min (sample volume:400 µl) (Applicable models: HF16, Compact)
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202

MagCore® Viral Nucleic Acid Extraction Kit (Low PCR Inhibition)

For 200 and 400 µl sample volumes.

Contents: Pre-Filled Cartridges, Proteinase K, PK Storage Buffer, Carrier RNA, Rnase Free Water, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes

Shelf life: 18 months

MVN400-03	MVN400-04	62 min (sample volume:200 µl) 73 min (sample volume:400 µl) *optical detection is not provided	MVN400-03	MVN400-04	57 min (sample volume:200 µl) 66 min (sample volume:400 µl)
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210

MagCore® Viral Nucleic Acid Large Volume Extraction Kit (2.4 ml)

For 2400 µl sample volumes.

Contents: Pre-Filled Cartridges, Proteinase K, PK Storage Buffer, Carrier RNA, Rnase Free Water, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes (special T-rack required for 5 ml sample tubes)

Shelf life: 18 months

				MVN2400	90 min (sample volume:2400 µl) (Applicable models: HF16, Compact)
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211

MagCore® Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)

For 1200 µl sample volumes.

Contents: Pre-Filled Cartridges, Proteinase K, PK Storage Buffer, Carrier RNA, Rnase Free Water, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes

Shelf life: 18 months

	MVN1200	80 min (sample volume:1200 µl) *optical detection is not provided		MVN1200	73 min (sample volume:1200 µl)
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Enzyme Selection Guide

Product	Contents	Cat No.
Proteinase K Set	11 mg Proteinase K, 1.25 ml PK Storage Buffer	PK011
Carrier RNA Set	1 mg Carrier RNA, RNase Free Water	CR001



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