



## Viral Nucleic Acid Kit (Magnetic Beads Method)

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High quality DNA/RNA applied to PCR, DNA Cloning, NGS and etc.



Molecular

# Viral Nucleic Acid Kit (Magnetic Beads Method)

Our reagents can be used for nucleic acid isolation of multiple of sample. They are prefilled and ready-to-use which can be easily load into analyzer to render security and ease of our end-user.



## Easy operation, rapid extraction

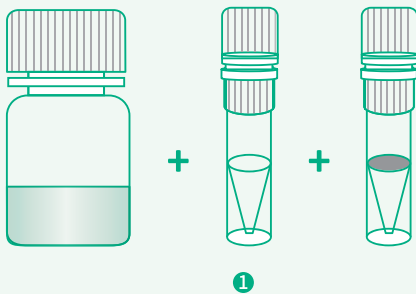
Only one step washing

Semi-automatic, 9 min to results

Extract once and get DNA and RNA meanwhile, meeting your needs for multiple index detection.

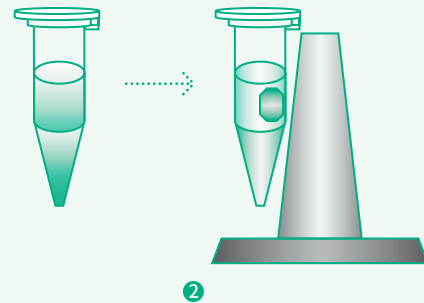
### • Pretreatment

500 $\mu$ L (Isolation Reagent I) + 4 $\mu$ L (Magnetic Beads Solution) + 15 $\mu$ L (Proteinase K), mix into [Working Solution].



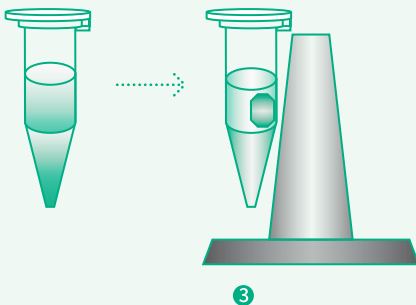
### • Lysate

500 $\mu$ L [Working Solution] + 200 $\mu$ L sample, mix well, lyse at 55 $^{\circ}$ C for 4 min, absorbed by magnetic separator for 1 min, and discard the supernatant.



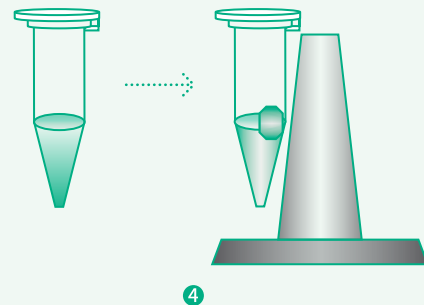
### • Rinsing

add 600 $\mu$ L [Isolation Reagent II], mix well, absorbed by magnetic separator for 1 min, and discard the supernatant.



### • Elution

add 50~100 $\mu$ L [Elution Buffer], elute at 80 $^{\circ}$ C for 2 min, absorbed by magnetic separator for 30s, reserve the supernatant.

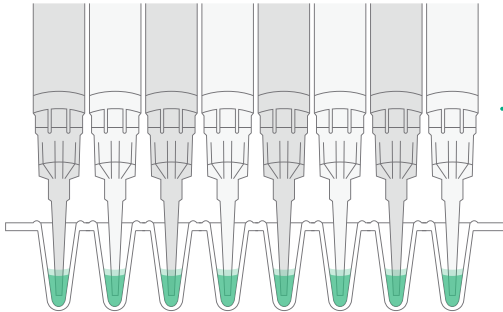
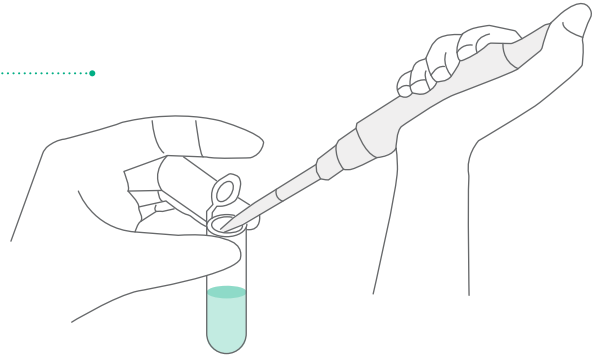


## Suitable for different situation

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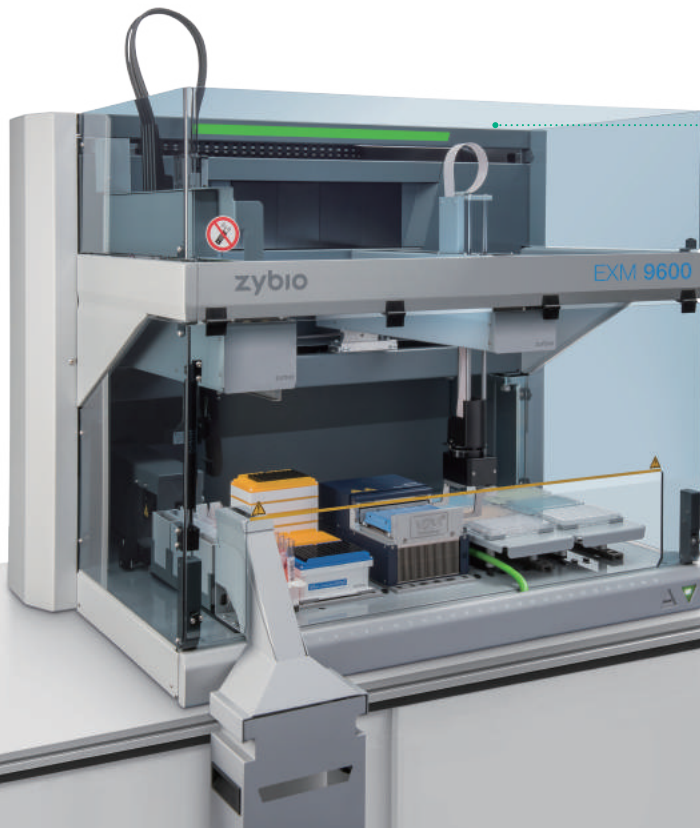
- **Manual Operation**

Up to 16 samples for per test;  
Extraction time : 10-15 min;  
Flexible; suitable for small sample;  
Only one step washing;



- **Operation of Semi-automatic Nucleic Acid Extractor**

Up to 32 samples for per test;  
Extraction time : 9 min;  
Suitable for most mainstream nucleic acid extractors;  
Prefilled and ready-to-use;



- **Operation of Automatic Nucleic Acid Extractor**

1-96 samples for per test;  
Extraction time : 15-60 min;  
Low cross-contamination risk;  
An automatic walkaway system;

# Efficient isolation, reliable performance

High repeatability

Good linear correlation

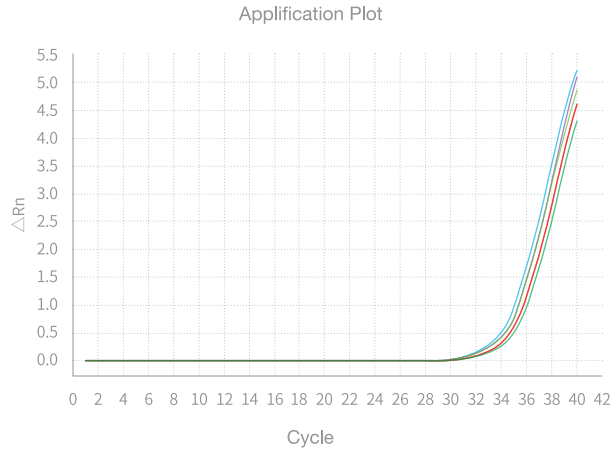


Figure 3-1 Amplification Curve of HBV Reference Material ( 10 IU/mL )

200  $\mu$ L 10 IU/mL diluted HBV reference material from WHO (NIBSC code: 10/264) was isolated by the kit to get 50  $\mu$ L analyte. The analyte was detected by HBV diagnosis kit 10 times. Positive rate is 100%, as shown in Figure 3-1

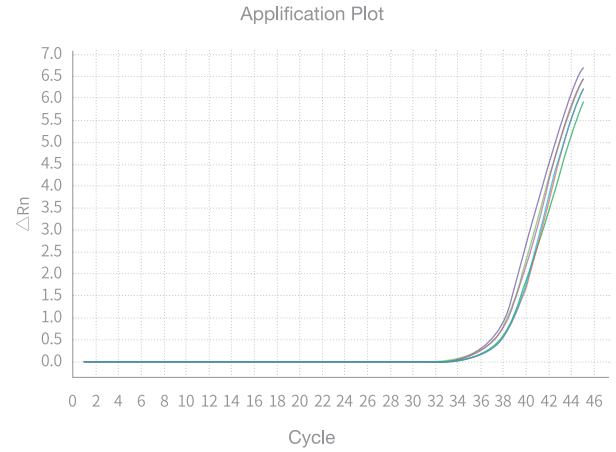


Figure 3-2 Amplification Curve of HCV Reference Material ( 25 IU/mL )

200  $\mu$ L 25 IU/mL diluted HCV reference material (5th WHO International Standard for HCV NAT, NIBSC code: 14/150) was isolated by the kit to get 50  $\mu$ L analyte. The analyte was detected by HBV diagnosis kit 10 times. Positive rate is 100%, as shown in Figure 3-2

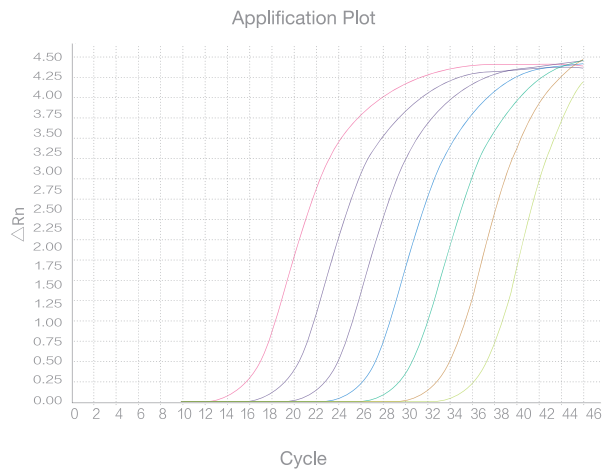


Figure 3-3 Amplification Curve of DNA Pseudoviridae

The DNA Pseudoviridae with a concentration of  $5 \times 10^8$  IU/mL was diluted with negative serum to  $5 \times 10^7$  IU/mL,  $5 \times 10^6$  IU/mL,  $5 \times 10^5$  IU/mL,  $5 \times 10^4$  IU/mL,  $5 \times 10^3$  IU/mL,  $5 \times 10^2$  IU/mL and 50 IU/mL. They were determined after isolation. The results were shown in Figure 3-3

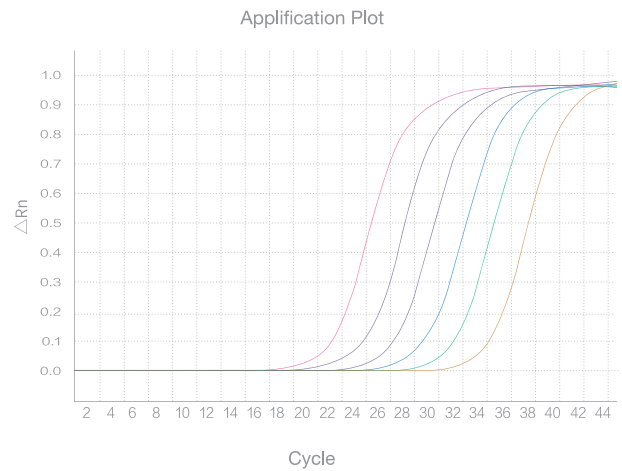


Figure 3-4 Amplification Curve of RNA Pseudoviridae

The RNA Pseudoviridae with a concentration of  $5 \times 10^7$  IU/mL was diluted with negative serum to  $5 \times 10^6$  IU/mL,  $5 \times 10^5$  IU/mL,  $5 \times 10^4$  IU/mL,  $5 \times 10^3$  IU/mL,  $5 \times 10^2$  IU/mL. They were determined after isolation. The results were shown in Figure 3-4

# Performance parameter

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Sample Types: Liquid samples such as serum, plasma, nasopharyngeal swab, cell preservation solution, tissue fluid, urine and secretions.

Test Method: manual, semi-automatic, automatic

Extraction Time: Semi-automatic, 9 min to results

Recovery:  $\geq 90\%$

Repeatability:  $CV \leq 2\%$

Subsequent Use: qPCR, hybridization

Treatment Time (1-96 samples, automatic): 15-60 min

# Specifications

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Reagent Kit	Application	Sample size	Model	Packing Specifications
Viral Nucleic Acid Kit	pathogen infection, pathogen resistance	100 $\mu$ L	A-100	32 T/Kit 96 T/Kit
		200 $\mu$ L	A-200	
		100 $\mu$ L	B-100	8 T/Kit 16 T/Kit 32 T/Kit
		200 $\mu$ L	B-200	

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