



# Nucleic Acid Extraction Kit

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(Magnetic Bead Method)



Molecular

# Nucleic Acid Extraction Kit (Magnetic Bead Method)

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

Zybio nucleic acid extraction kits are designed for samples from different sources. Besides regular manual operation kit, there are also pre-filled and ready-to-use kits that are available for Zybio automatic isolation systems, which made the nucleic acid extraction easier and much faster.



## Easy operation, rapid extraction

Only one step washing

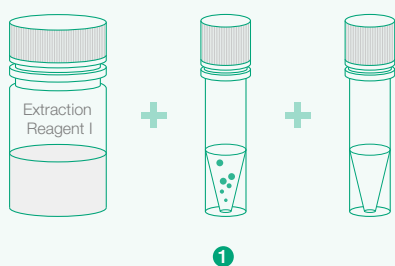
9 min for 32 samples

One extraction to get both DNA and RNA, meeting your needs for different downstream applications, meeting your needs for multiple index detection.

## Manual operation(A-200)

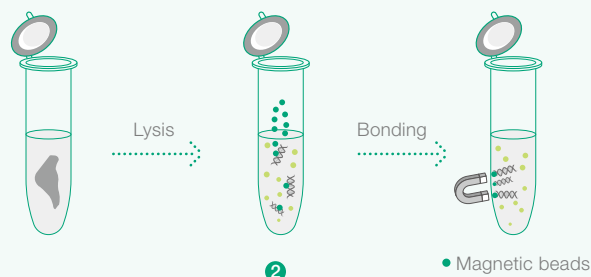
### • Pretreatment

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



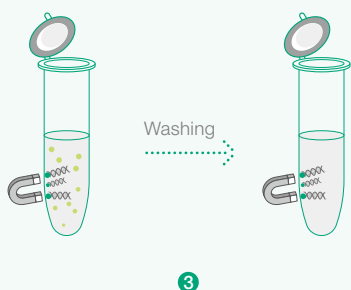
### • Lysate

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



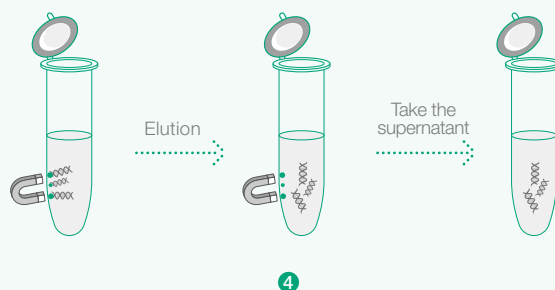
### • Rinsing

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



### • Elution

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



# Efficient isolation, reliable performance

High repeatability

Good linear correlation

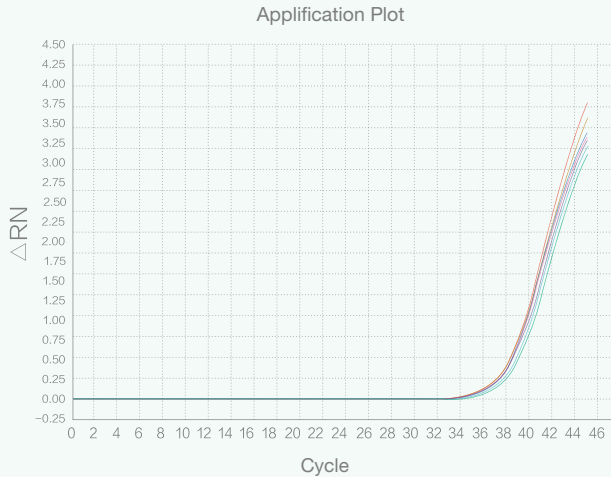


Figure 3-1 Amplification Curve of HBV Reference Material (10 IU/mL)

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

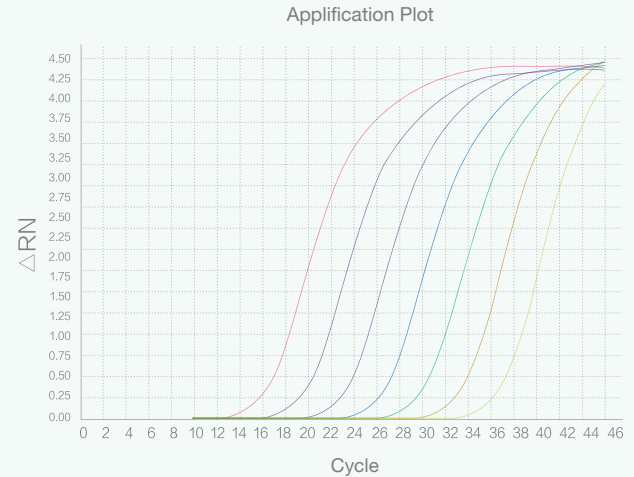


Figure 3-2 Amplification Curve of HCV Reference Material (25 IU/mL)

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

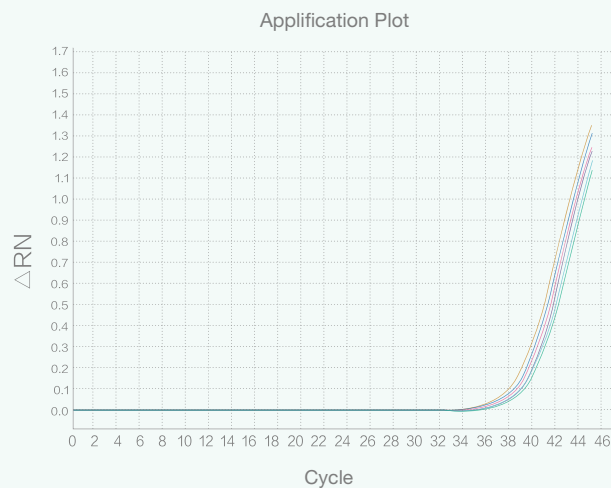


Figure 3-3 Amplification Curve of DNA Pseudoviridae

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

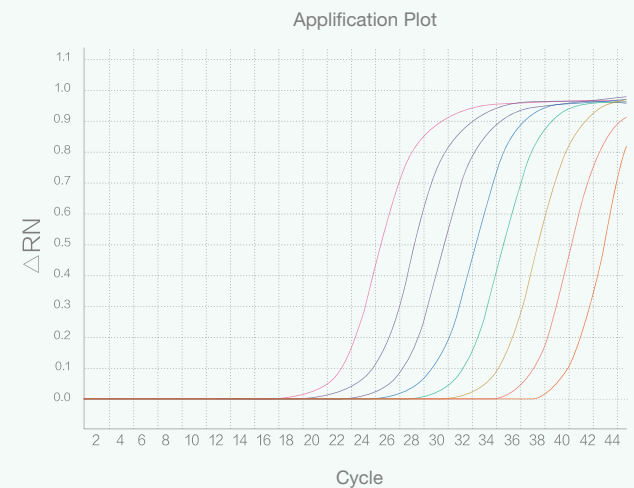
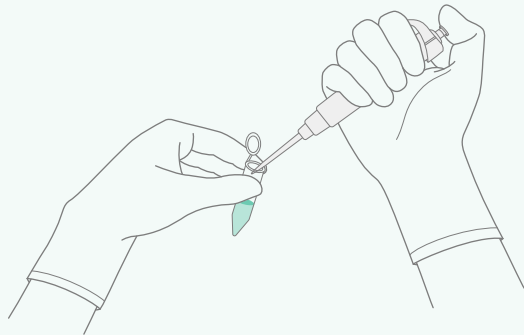


Figure 3-4 Amplification Curve of RNA Pseudoviridae

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

## Flexible extraction method

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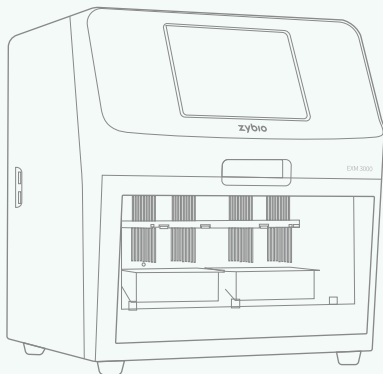


### Manual Operation

Magnetic bead method: easy for operation;

Extraction time: Around 15 minutes for 16 samples;

Available kit specification: A-200.



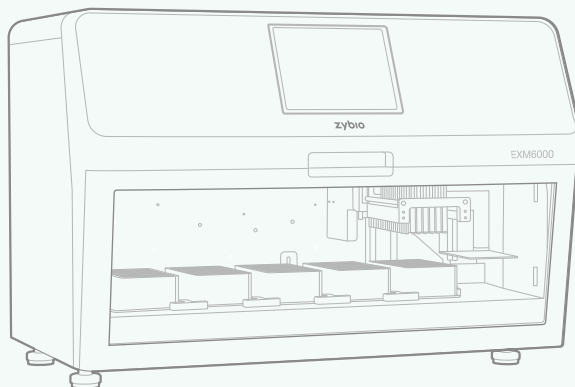
### Nucleic Acid Isolation

#### System EXM3000

1 to 32 samples per run;

Extraction time : As low as 9 min for 32 samples;

Available kit specification: B-200.



### Nucleic Acid Isolation

#### System EXM6000

1 to 96 samples per run;

Extraction time : As low as 12 min for 96 samples;

Available kit specification: T-200.


# Performance parameter

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


Extraction time: 9-12 minutes

Nucleic acid recovery rate: ≥ 90%


# Main Application Scenarios




Molecular biology lab



Hospital clinical Dpt.



Customs



Pet clinic

# Specifications

Reagent Kit	Application	Sample size	Model	Packing Specifications
Viral Nucleic Acid Kit	pathogen infection, pathogen resistance	200μL	A-200	32 T/Kit 96 T/Kit
		200μL	B-200	16 T/Kit 20 T/Kit 32 T/Kit
		200μL	T-200	32 T/Kit 96 T/Kit



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