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# Nucleic Acid Extraction Kit

(Magnetic Bead Method)

Molecular

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# Nucleic Acid Extraction Kit (Magnetic Bead Method)

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

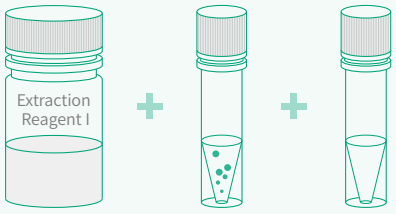

## Easy operation, rapid extraction

Only one step washing
9 min for 32 samples
Extract once and get DNA and RNA meanwhile, meeting your needs for multiple index detection.

## Manual operation(A-200)

- **Pretreatment**

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

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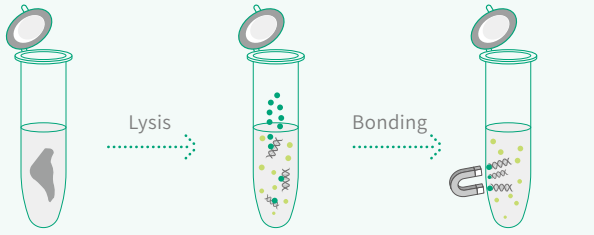
- **Lysate**

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

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- **Rinsing**

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


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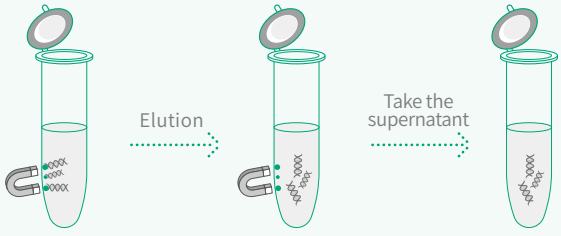
- **Elution**

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

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# Efficient isolation, reliable performance

High repeatability
Good linear correlation

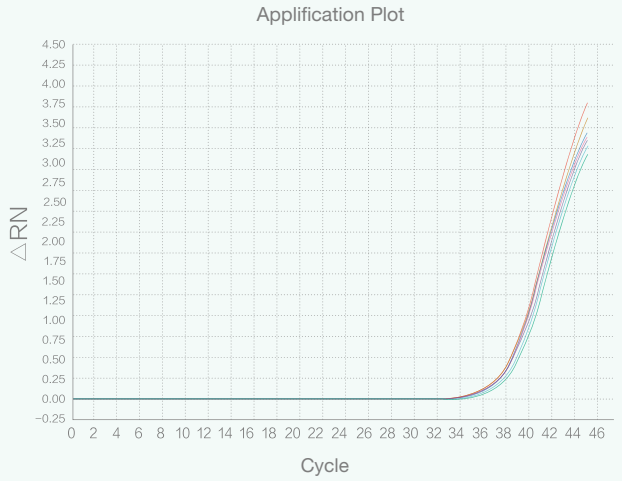



Figure 3-1 Amplification Curve of HBV Reference Material (10 IU/mL)

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

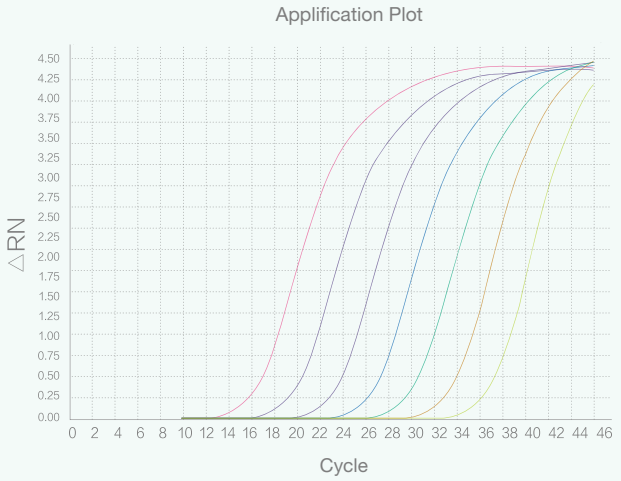



Figure 3-2 Amplification Curve of HCV Reference Material (25 IU/mL)

200 μL 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 μL analyte. The analyte was detected by HBV diagnosis kit 10 times. Positive rate is 100%, as shown in Figure 3-2

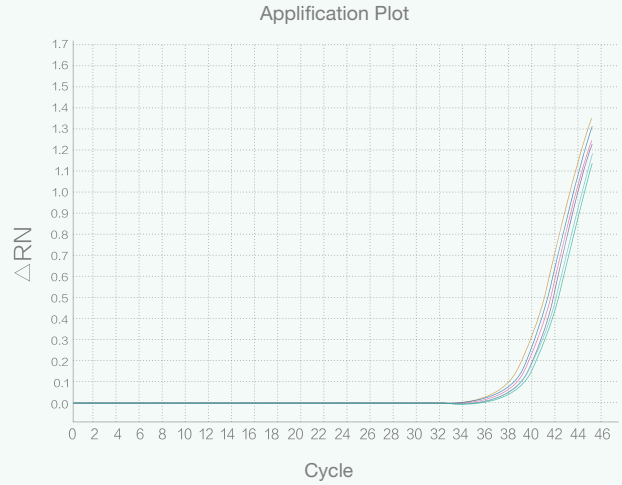



Figure 3-3 Amplification Curve of DNA Pseudoviridae

The DNA Pseudoviridae with a concentration of $5\times10^{8}$IU/mL was diluted with negative serum to $5\times10^{7}$IU/mL, $5\times10^{6}$IU/mL, $5\times10^{5}$IU/mL, $5\times10^{4}$IU/mL, $5\times10^{3}$IU/mL, $5\times10^{2}$IU/mL and 50IU/mL. They were determined after isolation. The results were shown in Figure 3-3

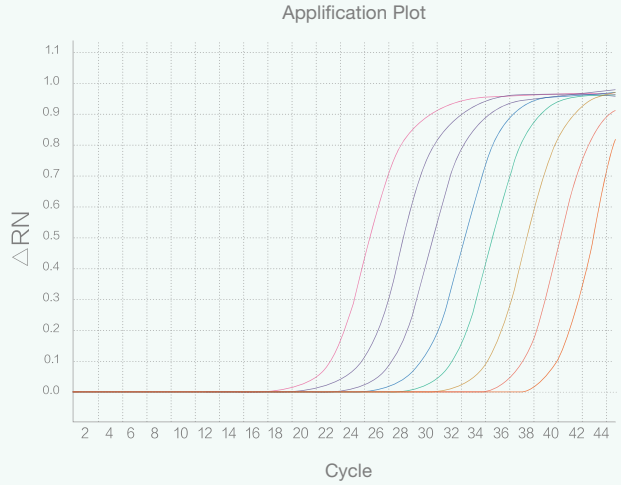
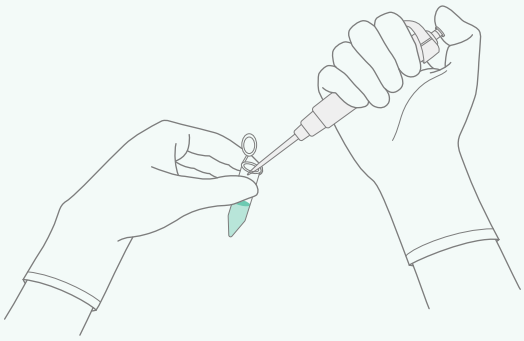



Figure 3-4 Amplification Curve of RNA Pseudoviridae

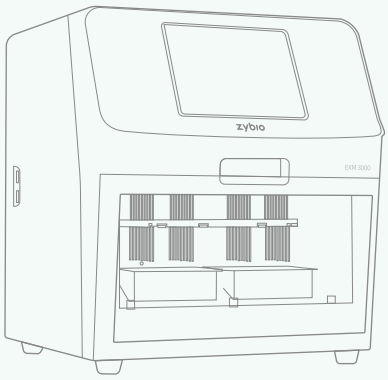
The RNA Pseudoviridae with a concentration of $5\times10^{7}$IU/mL was diluted with negative serum to $5\times10^{6}$IU/mL, $5\times10^{5}$IU/mL, $5\times10^{4}$IU/mL, $5\times10^{3}$IU/mL, $5\times10^{2}$IU/mL. They were determined after isolation. The results were shown in Figure 3-4

# Flexible extraction method



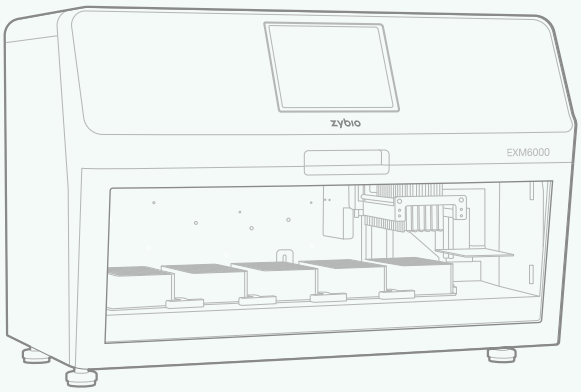
## Manual Operation

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




## Nucleic Acid Isolation System EXM3000

Up to 32 samples for per test;
Extraction time : 9 min;
Prefilled and ready-to-use;




## Nucleic Acid Isolation System EXM6000

Up to 96 samples for per test;
Extraction time : 12 min;
Low cross-contamination risk;

## Performance parameter

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

Extraction Time: 9 - 12 min

Recovery: ≥ 90%

Repeatability: CV ≤ 2%

Subsequent Use: qPCR, hybridization

## Specifications

| Reagent Kit | Application | Sample size | Model | Packing Specifications |
|---|---|---|---|---|
| Viral Nucleic Acid Kit | pathogen infection, pathogen resistance | 200μL | A-200 | 32 T/Kit<br>96 T/Kit |
| | | 200μL | B-200 | 8 T/Kit<br>16 T/Kit<br>32 T/Kit |
| | | 200μL | T-200 | 32 T/Kit<br>96 T/Kit |

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