zybio

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.

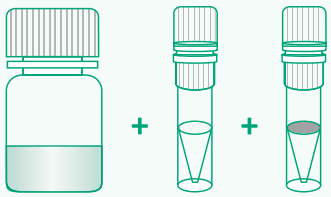
Easy operation, rapid extraction

Only one step washing
Semi-automatic, 9 min to results
Extract once and get DNA and RNA meanwhile, meeting your needs for multiple index detection.

Manual operation(A-200)

- **Pretreatment**

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



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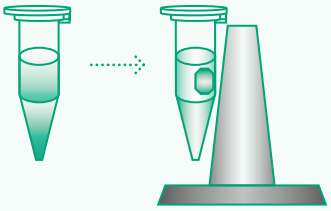
- **Lysate**

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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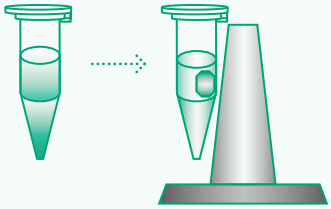
- **Rinsing**

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



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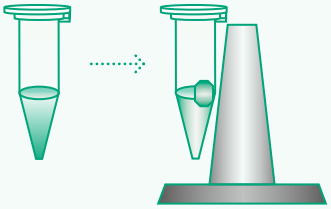
- **Elution**

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

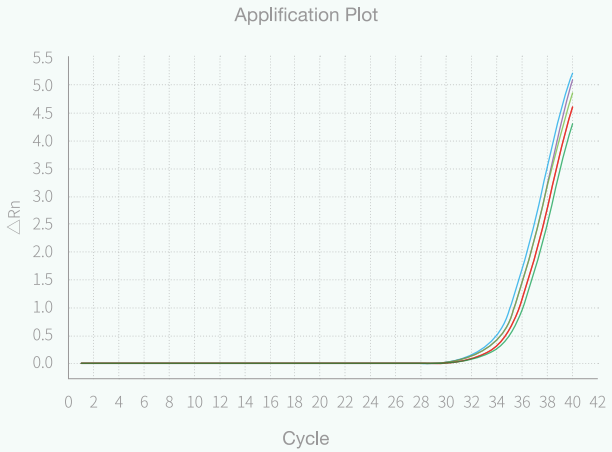


Figure 3-1 Amplification Curve of HBV Reference Material (10 IU/mL)

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

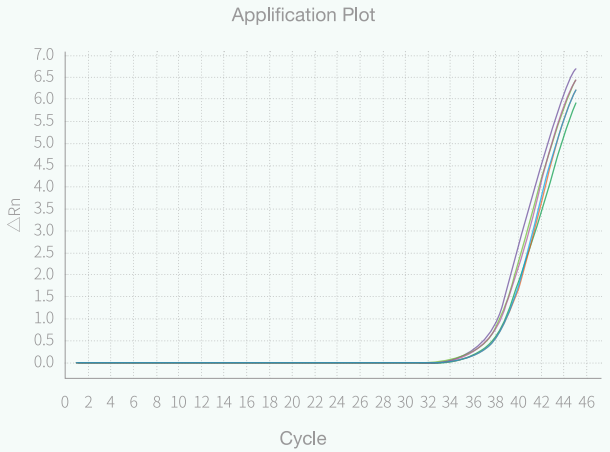


Figure 3-2 Amplification Curve of HCV Reference Material (25 IU/mL)

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

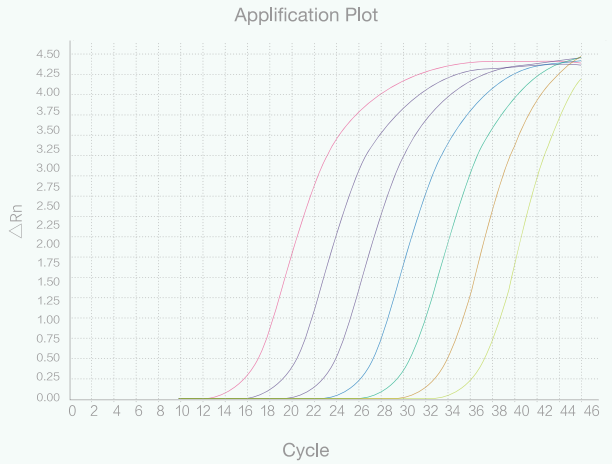


Figure 3-3 Amplification Curve of DNA Pseudoviridae

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

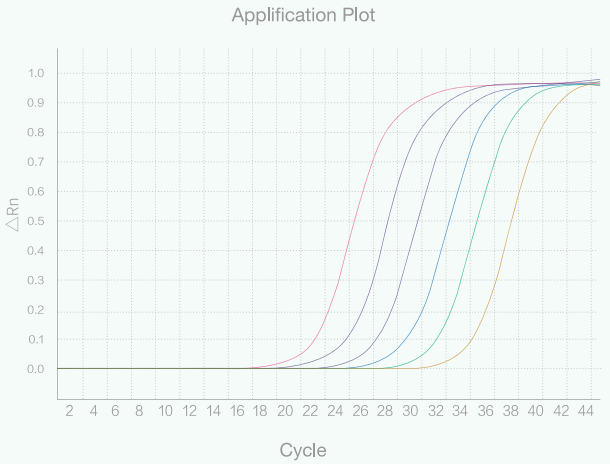


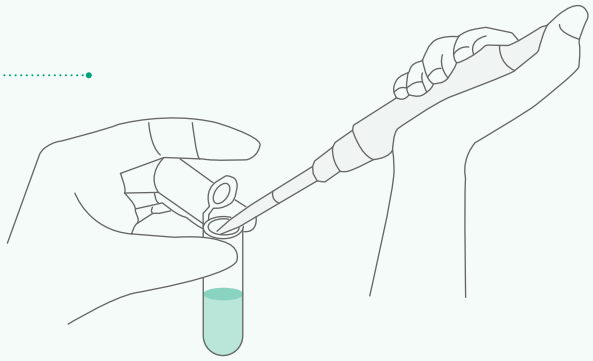
Figure 3-4 Amplification Curve of RNA Pseudoviridae

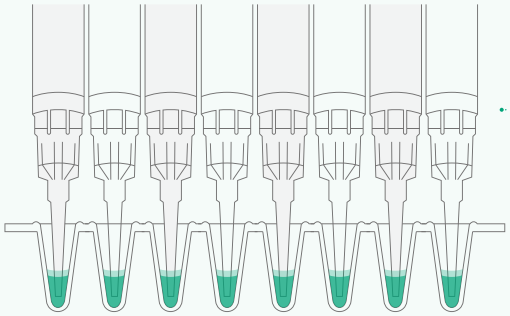
The RNA Pseudoviridae with a concentration of 5×10^{7}IU/mL was diluted with negative serum to 5×10^{6}IU/mL, 5×10^{5}IU/mL, 5×10^{4}IU/mL, 5×10^{3}IU/mL, 5×10^{2}IU/mL. They were determined after isolation. The results were shown in Figure 3-4

Flexible extraction method

Manual Operation

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





Operation of Semi-automatic Nucleic Acid Extractor

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

Operation of Automatic Nucleic Acid Extractor

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

Performance parameter

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: ≥ 90%
Repeatability: CV ≤ 2%
Subsequent Use: qPCR, hybridization
Treatment Time (1-96 samples, automatic): 15-60 min

Specifications

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

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