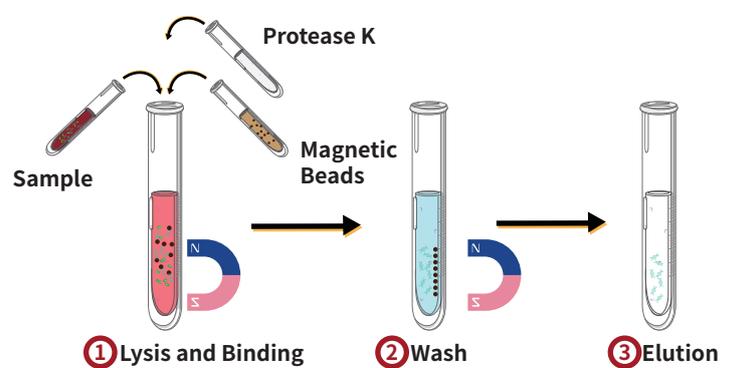




BeaverBeads™ Viral DNA/RNA Extraction Kit

The kit can extract viral DNA or RNA from various samples, including blood, serum, plasma, cell-free body fluid, cell culture supernatant, virus preservative, animal tissue, saliva, swab, stool, and samples from the environment.

The kit contains magnetic beads and pre-made buffers. It can be both used for manual extraction of small samples and automated high-throughput operations. BeaverBeads™ Viral DNA/RNA Extraction Kit can remove impurity proteins and other organic compounds in cells to the maximum extent, and the recovered nucleic acids can be used in a variety of downstream experiments, including Enzyme Digestion, PCR, Fluorescent Quantitative PCR etc.



Viral Nucleic Acid Extraction Illustration

HIGH SAFETY

No toxic reagents such as phenol, chloroform, etc in the extraction process

DNA/RNA SIMULTANEOUS EXTRACTION

Suitable for both DNA and RNA virus

FULLY AUTOMATED

One-Step nucleic acid extraction with fully automated operation

WIDE APPLICABILITY

Suitable for a variety of samples such as whole blood, tissue, saliva, swab, stool, feed, and samples from the environment.



Application : DNA Virus Nucleic Acid Extraction

Experimental Conditions: Add ASFV pseudovirus to blood samples, saliva samples and stool swab samples, as the simulation of DNA virus samples. The sample volume was 300 μL each, and the elution volume was 100μL. Then ASFV virus test kit was adopted for qPCR tests.

Result: For different ASFV samples, the Ct value of the BeaverBeads kit is about 1 lower than that the product from Brand A. It means that the yield of the BeaverBeads™ kit is higher than that of the Brand A product.

Table1 :Ct value of ASFV Fluorescence Quantitative PCR Test

Sample	BEAVER		Brand A	
	ASFV Blood Sample	28.52	28.36	29.09
ASFV Saliva Sample	28.17	28.15	29.31	29.18
	28.13		29.05	
ASFV Stool Swab Sample	28.42	28.3	28.76	28.99
	28.18		29.22	

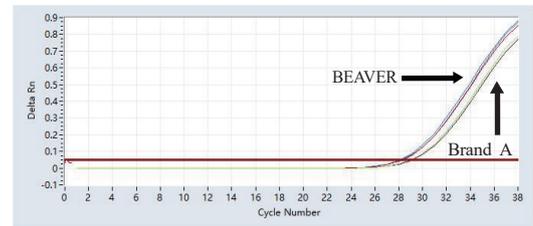


Fig 1: Amplification curves of Fluorescence Quantitative PCR Test

Application : RNA Virus Nucleic Acid Extraction

Experimental conditions: Add COVID-19 pseudovirus to swab preservative sample and the saliva sample, the sample volume was 300μL each, and the elution volume was 100 μL. Then Covid-19 test kit was adopted for qPCR detection

Result:For different Covid-19 samples, the Ct value of the BeaverBeads kit is about 2 lower than that the product from Brand A. It means that the yield of the BeaverBeads™ kit is higher than that of the Brand A product.

Table2:Ct value of Covid-19 Fluorescence Quantitative PCR Test

Sample	BEAVER		Brand A	
	Covid-19 Swab	30.15	30.12	31.95
Preservative Sample	30.09	31.67		
Covid-19 Saliva Sample	29.83	29.88	31.76	31.83
	29.93		31.90	



Fig 2: Amplification curves of Fluorescence Quantitative PCR Test

Product List

Cat.No.	Product Name	Size
70416-100	BeaverBeads™ Viral DNA / RNA Extraction Kit	100 rxns
70416-32FV/FU	BeaverBeads™ Viral DNA / RNA Extraction Kit (Prefilled Plate)	32 rxns
70416-96FV/FU	BeaverBeads™ Viral DNA / RNA Extraction Kit (Prefilled Plate)	96 rxns



more information

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