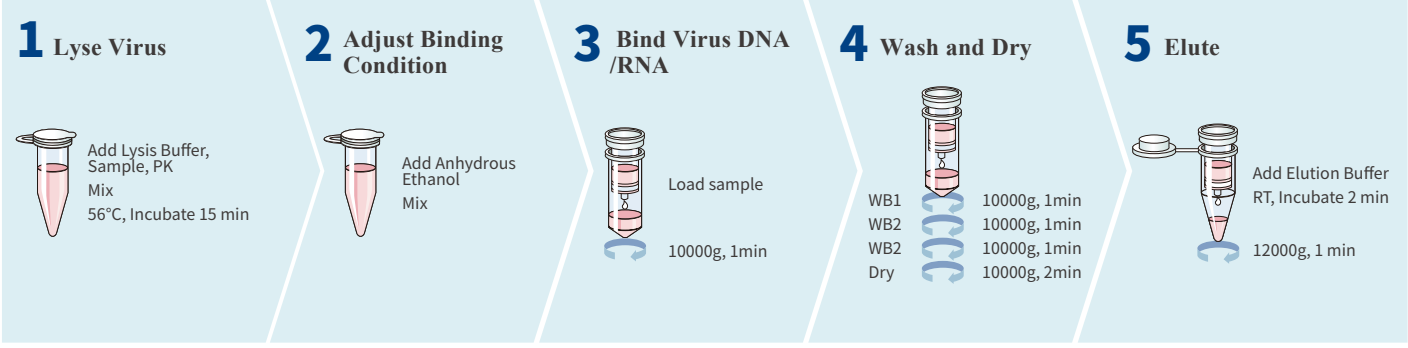
Biospin Virus DNA/RNA Extraction Kit

Product Introduction

The Biospin Virus DNA/RNA Extraction Kit is designed for the rapid and efficient isolation and purification of high quality virus nucleic acid from a variety of samples. It takes about only 30 minutes for the total procedure. The obtained virus nucleic acid can be used directly for a broad range of downstream applications, such as qPCR, NGS, etc.

- **Rapid and Reliable:** Fast procedures and easy to use
- **High Sensitivity:** DNA: 10 IU/mL, RNA: 100 IU/mL
- **Versatile:** Nucleic acid of various virus, e.g. SARS-CoV-2, Hepatitis, etc. in different samples, such as Serum, Plasma, Whole blood, Swabs, Saliva, Body fluid, Tissue, Feces, BALF, etc. for a broad range of down stream applications.
- **Safe:** Toxic free

Principle



Specifications

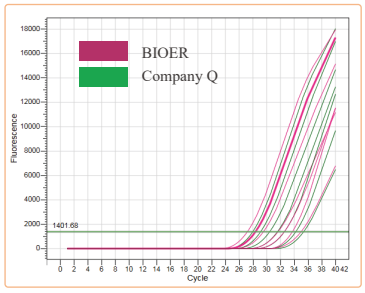
Features	Specifications
Format	Spin Column
Technology	Silica membrane technology
Sample	Serum, Plasma, Whole blood, Swabs, Saliva, Body fluid, Tissue, Feces, BALF, etc.
Sample Volume	200 μL
Elution Volume	50-100 μL

Features	Specifications
Processing	Manual (Centrifugation)
Processing Time	30 minutes
Yield	High purity viral DNA or viral RNA
Storage Conditions	2-30°C (Protease K: 2-8°C)
Shelf life	12 months

Application Cases

Case 1 To Extract RNA from Coronavirus

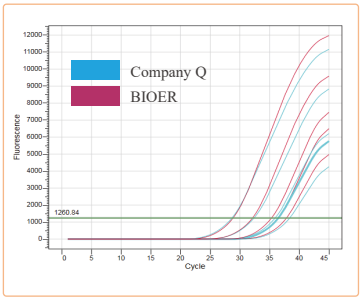
Gradient dilute the supernatant of fecal sample which contain Coronavirus, using the original and the diluted solution as samples, extract the Coronavirus RNA of each samples by using Biospin Virus DNA/RNA Extraction Kit and a leading brand extraction kit from Q company separately, then detect the Coronavirus RNA concentration by Real-Time RT-PCR. The results are as follows:



Samples	Ct Value	
	Bioer	Q company
1	26.81	27.31
2	27.77	28.41
3	29.08	30.00
4	30.68	31.00
5	32.05	32.24
6	32.60	33.48
7	34.77	34.80
Negative Control	-	-

Case 2 To Extract RNA from HCV

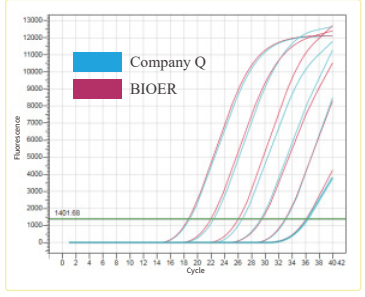
Gradient dilute the HCV positive serum sample, extract the HCV RNA of the original and diluted serum samples by using Biospin Virus DNA/RNA Extraction Kit and a leading brand extraction kit from Q company separately, then detect the HCV RNA concentration by Real-Time RT-PCR. The results are as follows:



Samples	Ct Value	
	Bioer	Q company
1	28.96	28.78
2	32.24	32.49
3	35.44	36.05
4	36.54	36.59
5	37.95	38.50
Negative Control	-	-

Case 3 To Extract RNA from Epidemic Diarrhea Virus

Gradient dilute the homogenates of small intestinal tissue which contain epidemic diarrhea virus, using the original and the diluted solution as samples, extract the virus RNA of each samples by using Biospin Virus DNA/RNA Extraction Kit and a leading brand extraction kit from Q company separately, then detect the RNA concentration by Real-Time RT-PCR. The results are as follows:

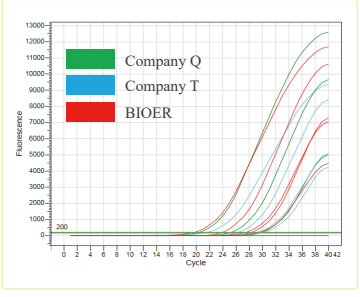


Samples	Ct Value	
	Bioer	Q company
1	18.44	18.71
2	22.02	22.46
3	26.15	26.32
4	29.80	29.49
5	32.49	32.95
6	36.46	36.80
Negative Control	-	-

Conclusion: The Biospin Virus DNA/RNA Extraction Kit has very good performance in extracting virus nucleic acid from different samples. It has very high sensitivity and is consistent with the leading brand extraction kit from Q Company.

Case 4 To Extract DNA from African Swine Fever Virus

Gradient dilute the tissue homogenate that contains African Swine Fever Virus, using the original and the diluted solution as samples, extract the virus DNA of each samples by using Biospin Virus DNA/RNA Extraction Kit and leading brand extraction kit from Q company and T company separately, then detect the DNA concentration by Real-Time PCR. The results are as follows:



Samples	Ct Value		
	Bioer	Q company	T company
1	23.71	23.99	25.95
2	27.30	28.76	29.90
3	31.73	33.45	33.12
4	31.16	-	34.20
5	33.19	-	-
Negative Control	-	-	-

Conclusion: The results show that the performance of the Biospin Virus DNA/RNA Extraction Kit is better than the other two extraction kits. The sensitivity is also higher than other two.

Ordering Information

Product Name	Catalog No.	Type	Sample	Kit Size
Biospin Virus DNA/RNA Extraction Kit	BSC77S1√	Spin column	Serum, Plasma, Whole blood, Swabs, Saliva, Body fluid, Tissue, Feces, BALF, etc.	50 Tests/Kit
	BSC77M1√	Spin column		100 Tests/Kit
	BSC77L1√	Spin column		200 Tests/Kit

√ CE Marked

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