

CARE FOR LIFE WITH  
SCIENCE AND TECHNOLOGY



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# BIOER REAGENT SELECTION GUIDE

# COMPANY PROFILE

Hangzhou Bioer Technology Co., LTD is a molecular detection supplier based on a series of products and services. It is located in the beautiful Qiantang River bank, covers an area of 26,000 square meters, has more than 600 employees. Bioer has been focusing on the PCR field for more than 25 years. In 2002, Bioer obtained the registration certificate of China quantitative fluorescent PCR detection system, achieving a milestone breakthrough in the PCR field in China. Bioer Technology has developed into a world-famous PCR industrial base, providing customers with a full set of solutions in the field of life science research and application, including instruments, reagents, consumables, etc.



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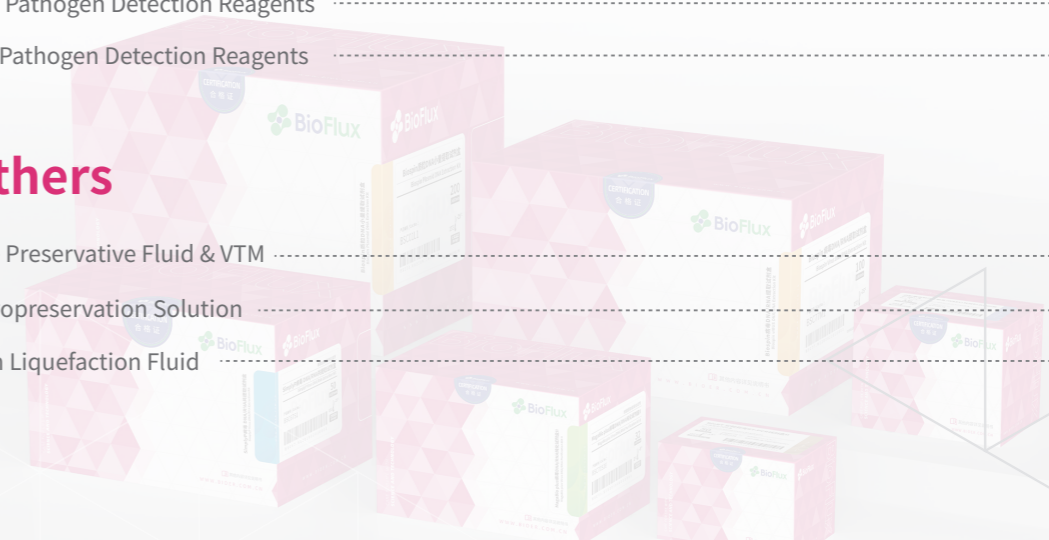
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DNA Extraction Reagents

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1.1 Spin Column Reagents

Product	Cat No	Package	Sample Type
Biospin Plasmid DNA Extraction Kit <b>HOT</b>	BSC01S1/BSC01M1/BSC01L1	50T/100T/250T	E.coli, Agrobacterium and other bacteria plasmids
Biospin Plasmid Mid DNA Extraction Kit	BSC01S1B/BSC01M1B	10T/25T	
Biospin Plasmid Max DNA Extraction Kit	BSC01S1C/BSC01M1C	10T/25T	
Biospin Endo-free Plasmid DNA Mini Extraction Kit <b>HOT</b>	BSC01S1D/BSC01M1D	50T/100T	
Biospin Endo-free Plasmid DNA Mid Extraction Kit	BSC01S1E/BSC01M1E	10T/25T	
Biospin Endo-free Plasmid DNA Max Extraction Kit <b>HOT</b>	BSC01S1F/BSC01M1F	10T/25T	
Biospin Yeast Plasmid DNA Extraction Kit	BSC01S1G/BSC01M1G	50T/100T	Yeast plasmid
Biospin Gel Extraction Kit	BSC02S1/BSC02M1	50T/100T	Gels containing DNA fragments
Biospin Gel and PCR Purification Kit <b>HOT</b>	BSC02M1A	100T	Gels containing DNA fragments, PCR products and various enzymatic reaction products
Biospin PCR Purification Kit <b>HOT</b>	BSC03S1/BSC03M1	50T/100T	PCR products and various enzymatic reaction products
Biospin Tissue Genomic DNA Extraction Kit	BSC04S1/BSC04M1	50T/100T	Animal tissue
Biospin Cell Genomic DNA Extraction Kit	BSC05S1/BSC05M1	50T/100T	Various cultured cells
Biospin Whole Blood Genomic DNA Extraction Kit <b>HOT</b>	BSC06S1/BSC06M1	50T/100T	Blood treated with anticoagulants in mammals, birds, etc
Biospin Whole Blood Genomic DNA Mid Extraction Kit	BSC06S1B	10T	
Biospin Whole Blood Genomic DNA Max Extraction Kit	BSC06S1C	10T	
Biospin Bacteria Genomic DNA Extraction Kit	BSC12S1/BSC12M1	50T/100T	Gram-positive and Gram-negative bacteria
Biospin Plant Genomic DNA Extraction Kit	BSC13S1	50T	Various plants
Biospin Plant Omni Genomic DNA Extraction Kit <b>HOT</b>	BSC13S1B/BSC13M1B	50T/100T	Various plants, including polysaccharides and polyphenols
Biospin Fungus Genomic DNA Extraction Kit	BSC14S1/BSC14M1/BSC14L1	50T/100T/200T	Fruiting solid fungal tissue, liquid fungal culture, liquid yeast culture
Biospin FFPE Tissue Genomic DNA Extraction Kit <b>HOT</b>	BSC24S1/BSC24M1	50T/100T	Paraffin embedded tissue or formalin fixed tissue
Biospin Insect Genomic DNA Extraction Kit	BSC26S1/BSC26M1	50T/100T	Insect tissue
Biospin Ocean Animal Tissue Genomic DNA Extraction Kit	BSC27S1/BSC27M1	50T/100T	Marine animal tissue
Biospin Oral swab DNA extraction Kit <b>HOT</b>	BSC28S1/BSC28M1	50T/100T	Oral swabs
Biospin Plasma free DNA Small Amount Extraction Kit <b>HOT</b>	BSC30S1/BSC30M1	50T/100T	Serum, plasma
Biospin Plasma free DNA medium Extraction Kit	BSC30S1B/BSC30M1B	50T/100T	
Biospin Virus DNA Extraction Kit <b>HOT</b>	BSC32S1/BSC32M1	50T/100T	Plasma, serum, tissue, swab
Biospin Omni Genomic DNA Extraction Kit <b>HOT</b>	BSC39S1/BSC39M1	50T/100T	Animal tissue, cells, blood, dry spots, bacteria
Biospin Blood/Cell/Tissue Genomic DNA Extraction Kit	BSC47S1/BSC47M1	50T/100T	Whole blood, cells, tissue
Biospin Virus DNA Extraction Kit II <b>HOT</b>	BSC72S1/ BSC72M1	50T/100T	Gram-positive and Gram-negative bacteria
SimplyP Virus DNA Extraction Kit <b>HOT</b>	BSC76S1/BSC76M1	50T/100T	Plasma, serum, tissue, swab

1.2 Magnetic Bead Reagents

1.2.1 Bottled Reagents

Product	Cat No	Package	Sample Type
MagaBio plus General Genomic DNA Purification Kit	BSC07S1B/BSC07M1B	50T/100T	Animal tissues, cells, whole blood
MagaBio plus Whole Blood Genomic DNA Purification Kit	BSC08S1B/BSC08M1B	50T/100T	Whole blood
MagaBio plus Bacterium Genomic DNA Purification Kit	BSC09S1B	50T	Gram-positive bacteria, Gram-negative bacteria
MagaBio plus Plant Genomic DNA Purification Kit	BSC10S1B	50T	Plant tissue (Root, Stem, Leaf, Flower, Fruit, Seed)
MagaBio plus Virus DNA Purification Kit	BSC11S1B/BSC11M1B	50T/100T	Serum, plasma, tissue, body fluids, feces, swabs etc.
MagaBio FFPE Tissue Genomic DNA Extraction Kit 	BSC31S1/BSC31M1	50T/100T	Paraffin-embedded tissue or formalin-fixed tissue
MagaBio Insect Genomic DNA Purification Kit	BSC33S1/BSC33M1	50T/100T	Various insect and arthropod tissues
MagaBio Blood Spots Genomic DNA Purification Kit 	BSC34S1/BSC34M1	50T/100T	Dried blood spots, trace whole blood
MagaBio Swabs Genomic DNA Purification Kit 	BSC35S1/BSC35M1	50T/100T	Oral swab, saliva
MagaBio plus Tissue Genomic DNA Purification Kit	BSC37S1/BSC37M1	50T/100T	Various animal tissue and cell samples
MagaBio Plasma Circulating DNA Purification Kit 	BSC40S1/BSC40M1	50T/100T	Cell-free tissue fluids such as plasma and serum
MagaBio Plasmid DNA Purification Kit	BSC41S1/BSC41M1	50T/100T	Plasmids of E. coli
MagaBio PCR Purification Kit	BSC42S1/BSC42M1	50T/100T	PCR reaction products and various enzymatic reaction products
MagaBio Bacterium DNA Fast Purification Kit 	BSC45S1/BSC45M1	50T/100T	Gram-positive bacteria, Gram-negative bacteria
MagaBio Soil and Feces Genomic DNA Purification Kit 	BSC48S1/BSC48M1	50T/100T	Soil and fecal samples
MagaBio plus Virus DNA Purification Kit II 	BSC50S1B/BSC50M1B	50T/100T	Whole blood, serum, plasma, tissues, body fluids, stool, swabs etc.
MagaBio plus Whole Blood Genomic DNA Purification Kit II 	BSC73S1B/BSC73M1B	50T/100T	Whole blood
MagaBio plus General Genomic DNA Purification Kit II 	BSC74S1/BSC74M1	50T/100T	Whole blood, amniotic fluid, saliva, tissues, cells, dried blood spots, oral swabs
MagaBio plus Virus DNA Purification Kit III	BSC84S1BX/BSC84M1BX	50T/100T	For animal epidemic control
MagaBio Bacterium DNA Purification Kit III	BSC96S1B/BSC96M1B	50T/100T	Bacteria

1.2 Magnetic Bead Reagents

1.2.2 Pre-packaged Reagents

Note: C is applicable to The NPA-32+(GenePure Plus) instrument, E is applicable to the NPA-32P (GenePure Pro) instrument, F is applicable to the NPA-96 (GenePure Pro 96) instrument

Product	Cat No	Package	Sample Type
MagaBio plus General Genomic DNA Purification Kit	BSC07S1C/BSC07S1E	32T/32T	Tissues, cells, whole blood
MagaBio plus Whole Blood Genomic DNA Purification Kit	BSC08S1C/BSC08S1E BSC08L1E/BSC08L1F	32T/32T 96T/96T	Whole blood
MagaBio plus Bacterium Genomic DNA Purification Kit	BSC09S1C/BSC09S1E	32T/32T	Gram-positive bacteria, Gram-negative bacteria
MagaBio plus Plant Genomic DNA Purification Kit	BSC10S1C/BSC10S1E BSC10L1F	32T/32T 96T	Plant tissue (Root, Stem, Leaf, Flower, Fruit, Seed)
MagaBio plus Virus DNA Purification Kit	BSC11S1C/BSC11S1E BSC11T1E/BSC11M1F BSC11L1F	32T/32T 16T/48T 96T	Serum, plasma, tissue, body fluids, feces, swabs etc
MagaBio FFPE Tissue Genomic DNA Extraction Kit 	BSC31S1C/BSC31S1E BSC31L1E	32T/32T 96T	Paraffin-embedded tissue or formalin-fixed tissue
MagaBio Insect Genomic DNA Purification Kit	BSC33S1C/BSC33S1E	32T/32T	Various insect and arthropod tissues
MagaBio Blood Spots Genomic DNA 	BSC34S1C/BSC34S1E BSC34L1E	32T/32T 96T	Dried blood spots, trace whole blood
MagaBio Swabs Genomic DNA Purification Kit 	BSC35S1C/BSC35S1E	32T/32T	Oral swab, saliva
MagaBio plus Tissue Genomic DNA Purification Kit	BSC37S1C/BSC37S1E	32T/32T	Various animal tissue and cell samples
MagaBio Plasma Circulating DNA Purification Kit 	BSC40S1C/BSC40S1E BSC40T1E/BSC40L1F	32T/32T 16T/96T	Cell-free tissue fluids such as plasma and serum
MagaBio Plasma Circulating DNA Purification Kit	BSC41S1C/BSC41S1E	32T/32T	Plasmids of E. coli
MagaBio PCR Purification Kit	BSC42S1C/BSC42S1E	32T/32T	PCR reaction products and various enzymatic reaction products
MagaBio Bacterium DNA Fast Purification Kit	BSC45S1C/BSC45S1E BSC45M1E/BSC45M1F BSC45L1E/BSC45L1F	32T/32T 48T/48T 96T/96T	Gram-positive bacteria, Gram-negative bacteria
MagaBio Soil and Feces Genomic DNA Purification Kit 	BSC48S1C/BSC48S1E BSC48L1E	32T/32T 96T	Soil and fecal samples
MagaBio plus Virus DNA Purification Kit II 	BSC50S1E/BSC50M1F BSC50L1E/BSC50L1F	32T/48T 96T/96T	Whole blood, serum, plasma, tissues, body fluids, stool, swabs etc
MagaBio plus Whole Blood Genomic DNA Purification Kit II 	BSC73S1E/BSC73L1E	32T/96T	Whole blood
MagaBio plus General Genomic DNA Purification Kit II 	BSC74S1E/BSC74L1E	32T/96T	Whole blood, amniotic fluid, saliva, tissues, cells, dried blood spots, oral swabs
MagaBio plus Virus DNA Purification Kit III	BSC84S1EX/BSC84M1EX	32T/48T	For animal epidemic control
MagaBio plus Maxi Whole Blood Genomic DNA Purification Kit	BSC90S1/BSC90M1	10T/25T	Whole blood
MagaBio Maxi Plasma Circulating DNA Purification Kit	BSC95S1/BSC95M1	10T/25T	Plasma
MagaBio Bacterium DNA Purification Kit III	BSC96T1E/BSC96S1E	16T/32T	Bacteria
MagaBio Maxi Plasma Circulating DNA Purification Kit II	BSC97S1/BSC97M1	10T/25T	Plasma

### 1.3 BioFast & dBIOZOL & BioDirect Reagents

Product	Cat No	Package	Sample Type
Biospin Polyacrylamide Gel DNA Extraction Kit	BSC15S1/BSC15M1	50T/100T	Polyacrylamide Gel
dBIOZOL Genomic DNA Extraction Reagent	BSC16S1/BSC16M1	50T/200T	Blood, cells, animal tissue, parts of plant tissue
BioFastspin Plant Genomic DNA Extraction Kit	BSC18T1/BSC18S1	10T/50T	Plant tissue
BioFast Tissue Genomic DNA Extraction Kit	BSC19S	50T	Tissue
BioFastspin Tissue Genomic DNA Extraction Kit	BSC20T1/BSC20S1	10T/50T	Animal tissue
BioFast Soil Genomic DNA Extraction Kit	BSC21T1/BSC21S1	10T/50T	Soil samples
BioFastspin Water Genomic DNA Extraction Kit	BSC38S1/BSC38M1	50T/100T	Water sample
BioDirect One-step DNA Extraction Reagent	BSC43S1/BSC43M1	50T/100T	Animal feces, swab, oral fluid, blood, plasma, etc

## RNA Extraction Reagents

### 2.1 Spin Column Reagents

Product	Cat No	Package	Sample Type
SimplyP Total RNA Extraction Kit 	BSC52S1/BSC52M1/BSC52L1	50T/100T/200T	Whole blood, cells, bacteria, tissues, etc.
SimplyP Total RNA Extraction Kit (DNA-free) 	BSC52S1B	50T	
SimplyP Virus RNA Extraction Kit	BSC56S1/BSC56M1	50T/100T	Liquid samples of animals, plant tissues, plasma, serum, ascites, etc.
Biospin Virus RNA Extraction Kit	BSC62S1/BSC62M1	50T/100T	Plasma, serum, tissue, swab
Biospin Total RNA Extraction Kit	BSC63S1/BSC63M1	50T/100T	Tissues, liquid samples, blood leukocytes, cultured cells
Biospin MiRNA Extraction Kit	BSC64S1/BSC64M1	50T/100T	Animal tissues, cells, bacteria
Biospin Plant Total RNA Extraction Kit 	BSC65S1	50T	Polysaccharide polyphenol plant
Biospin Plant Total RNA Extraction Kit (DNA-free) 	BSC65S1B	50T	
Biospin FFPE Tissue RNA Extraction Kit	BSC66S1/BSC66M1	50T/100T	Paraffin-embedded tissue or formalin-fixed tissue
Biospin Total RNA Extraction Kit II 	BSC80S1/BSC80M1	50T/100T	Tissues, liquid samples, blood leukocytes, cultured cells

### 2.2 Magnetic Bead Reagents


#### 2.2.1 Bottled Reagents

Product	Cat No	Package	Sample Type
MagaBio plus Total RNA Purification Kit	BSC53S1B/BSC53M1B	50T/100T	Fresh human blood, serum, cultured cells, animal and plant tissues treated with anticoagulants
MagaBio plus Virus RNA Purification Kit	BSC58S1B/BSC58M1B	50T/100T	Serum, plasma, tissue, body fluids, feces, sampling swabs and other samples
MagaBio plus Total RNA Purification Kit II	BSC87S1B/BSC87M1B	50T/100T	Viral RNA in serum, plasma, swabs after sampling, etc.
MagaBio plus Virus RNA Purification Kit II 	BSC69S1B/BSC69M1B	50T/100T	Isolate high yields of purified RNA from various samples, including fresh whole blood, isolated white blood cells, and various tissues

### 2.2 Magnetic Bead Reagents

#### 2.2.2 Pre-packaged Reagents

Note: C is applicable to The NPA-32+(GenePure Plus) instrument, E is applicable to the NPA-32P (GenePure Pro) instrument, F is applicable to the NPA-96 (GenePure Pro 96) instrument



Product	Cat No	Package	Sample Type
MagaBio plus Total RNA Purification Kit	BSC53S1C/BSC53S1E	32T/32T	Fresh human blood, serum, cultured cells, animal and plant tissues treated with anticoagulants
MagaBio plus Virus RNA Purification Kit	BSC58S1C/BSC58S1E BSC58S1F	32T/32T 24T	Serum, plasma, tissue, body fluids, feces, sampling swabs and other samples
MagaBio plus Virus RNA Purification Kit II	BSC87S1E	32T	Viral RNA in serum, plasma, swabs after sampling, etc.
MagaBio plus Total RNA Purification Kit II 	BSC69S1C/BSC69S1E	32T/32T	Isolate high yields of purified RNA from various samples, including fresh whole blood, isolated white blood cells, and various tissues

### 2.3 BioFast & dBIOZOL & BioDirect Reagents






Product	Cat No	Package	Sample Type
BIOZOL Total RNA Extraction Reagent	BSC51S1/BSC51M1	50T/100T	The cells or tissues of plants, animals, or bacteria
pBIOZOL Plant Total RNA Extraction Reagent	BSC55S1/BSC55M1	50T/100T	Plant tissue
BioFast Simply P Total RNA Extraction Kit	BSC60T1/BSC60S1	50T/100T	Animal and plant tissue






## DNA / RNA Co-extraction Reagents

### 3.1 Spin Column Reagents

Product	Cat No	Package	Sample Type
Biospin Tissue Cell DNA/RNA Extraction Kit	BSC29S1	50T	Animal tissue or cell
SimplyP Virus DNA/RNA Extraction Kit 	BSC67S1/BSC67M1 BSC67L1	50T/100T 200T	Homogenate supernatant of animal and plant tissues, serum, plasma, ascites and other liquid samples
SimplyP Animal Pathogens DNA/RNA Extraction Kit	BSC70T1/BSC70M1	24T/96T	Homogenate supernatant of animal and plant tissues, serum, plasma, ascites and other liquid samples
Biospin Virus DNA/RNA Extraction Kit 	BSC77S1/BSC77M1	50T/100T	Whole blood, plasma, serum, body fluids, animal and plant tissues, feces, swabs, broncho alveolar lavage(BAL)

▶▶ Human Pathogen Detection Reagents

3.2 Magnetic Bead Reagents			
3.2.1 Bottled Reagents			
Product	Cat No	Package	Sample Type
MagaBio plus Virus DNA/RNA Purification Kit 	BSC57S1B/BSC57M1B	50T/100T	Tissue, feces, serum, plasma, body fluid samples
MagaBio plus Virus DNA/RNA Purification Kit II 	BSC71S1B/BSC71M1B	50T/100T	Tissue, stool, whole blood, serum, plasma and body fluid samples
MagaBio Pathogens Genomic DNA/RNA Purification Kit 	BSC75S1/BSC75M1	50T/100T	Plasma, alveolar lavage fluid, sputum, saliva, animal tissue
MagaBio Fecal Pathogens DNA/RNA Purification Kit (Including grinding tube) 	BSC78S1/BSC78M1	50T/100T	Feces
MagaBio Plus Virus DNA/RNA Purification Kit II 	BSC86S1/BSC86M1	50T/100T	Swabs, tissue, stool, blood, serum, plasma and other body fluid samples
MagaBio plus Virus DNA/RNA Purification Kit IV	BSC94S1BX/BSC94M1BX	50T/100T	For animal epidemic control

3.2 Magnetic Bead Reagents			
3.2.2 Pre-packaged Reagents			
Product	Cat No	Package	Sample Type
MagaBio plus Virus DNA/RNA Purification Kit 	BSC57S1C/BSC57S1E	32T/32T	Tissue, stool, serum, plasma and body fluid samples
	BSC57T1E/BSC57SL1E-T	16T/96T	
	BSC57L1C/BSC57SL1T	96T/96T	
MagaBio plus Virus DNA/RNA Purification Kit II 	BSC71S1E/BSC71L1E	32T/96T	Tissue, stool, whole blood, serum, plasma and body fluid samples
MagaBio pathogens DNA/RNA Purification Kit 	BSC75S1C/ BSC75S1E	32T/32T	Plasma, alveolar lavage fluid, sputum, saliva, animal tissue
	BSC75L1E	96T	
MagaBio Fecal Pathogens DNA/RNA Purification Kit 	BSC78S1C/ BSC78S1E	32T/32T	Feces
	BSC78L1E	96T	
MagaBio Plus Virus DNA/RNA Purification Kit II 	BSC86T1E/BSC86S1E	16T/32T	Swabs, tissue, stool, blood, serum, plasma and other body fluid samples
	BSC86M1E/BSC86L1E	48T/96T	
	BSC86T1S/BSC86S1S	1Tx16/1Tx32	
	BSC86M1S	1Tx48	
MagaBio plus Virus DNA/RNA Purification Kit IV	BSC94S1EX/BSC94M1EX	32T/48T	For animal epidemic control
MagaBio Virus DNA/RNA Maxi Purification Kit	BSC98S1/BSC98M1	10T/25T	Tissue, feces, serum, etc

3.3 BioFast & dBIOZOL & BioDirect Reagents			
Product	Cat No	Package	Sample Type
BioFastspin Soil/Stool Genomic DNA/RNA Extraction Kit 	BSC68S1/BSC68M1	50T/100T	Soil, Feces

4.0 Human Pathogen Detection Reagents		
Product	Cat No	Package
PCR/RT-PCR Kit for HBV PCR Fluorescence Detection	BSB01M1A	48T
PCR/RT-PCR Kit For HBV PCR Fluorescence Quantitative Detection (With internal control and Magabeads Extraction)	BSB01M1B	48T
HCV RT-PCR Fluorescence Quantitative Detection Kit (Magabeads Extraction)	BSB01M1C	48T
HCV RT-PCR Fluorescence Quantitative Detection Kit	BSB02M1A	48T
HCV RT-PCR Fluorescence Quantitative Detection Kit (With Internal control )	BSB02M1B	48T
HCV RT-PCR Fluorescence Quantitative Detection Kit (Magabeads Extraction)	BSB02M1C	48T
PCR/RT-PCR For HCV PCR Fluorescence Quantitative Detection (With Internal control and Magabeads Extraction)	BSB02M1E /BSB02M1D	32T /48T
PCR/RT-PCR Kit For HCV PCR Fluorescence Quantitative Detection II (Magabeads Extraction)	BSB02M1F	48T
PCR / RT-PCR Kit For HCMV PCR Fluorescence Quantitative Detection	BSB18M1	48T
Mycobacterium tuberculosis (TB) PCR Fluorescence Quantitative Diagnostic Kit	BSB19M1	48T
PCR / RT-PCR Kit For HIV-1 RT- PCR Fluorescence Quantitative Detection (without magnetic bead extraction)	BSB24M1A	48T
PCR / RT-PCR Kit For HIV-1 RT- PCR Fluorescence Quantitative Detection	BSB24S1C/ BSB24M1	32T/48T
Human Papillomavirus (HPV) Nucleic Acid Test Kit (Fluorescence PCR)	BSJ01S1/BSJ01M1	32T/48T
NG, CT, UU, Nucleic Acid Detection Kit (Fluorescence PCR method)	BSJ02S1	32T
SARS-CoV-2 Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ16S1/BSJ16M1	24T/48T
SARS-CoV-2/ Influenza A Virus/ Influenza B Virus Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ17S1/BSJ17M1	24T/48T
SARS-CoV-2 Lyophilized Nucleic Acid Detection Kit	BSJ18S1/BSJ18S1	12X8T/96T
Influenza A Virus/Influenza B Virus Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ04S1	32T
Respiratory syncytial virus type A/type B Nucleic Acid Detection Kit (RT-PCR- Fluorescence Probe)	BSJ05M1	48T
Group B Streptococcus Nucleic Acid Detection Kit (Fluorescent PCR)	BSJ07M1	48T
Herpes Simplex Virus Type 1 and 2 Nucleic Acid Typing Detection Kit (Fluorescence PCR)	BSJ08M1	48T
Mycoplasma Pneumoniae Nucleic Acid Detection Kit (PCR Fluorescence Probing)	BSJ09M1	48T
Bordetella Pertussis Nucleic Acid Detection Kit (PCR Fluorescence Probe)	BSJ10S1/BSJ10M1	24T/48T
SARS-CoV-2 B.1.1.7 Variant Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ19M1	48T
SARS-CoV-2 B.1. 351 Variant Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ20M1	48T
SARS-CoV-2 Nucleic Acid Rapid Detection Kit (Fluorescence RT-PCR)	BSJ21S1/BSJ21M1	24T/48T
Ebola Virus Nucleic Acid Detection Kit (Fluorescence PCR)	BSJ23S1/BSJ23M1	24T/48T
HPV (6/11/16/18) Genotyping Real-Time PCR Kit	BSJ24M1	48T
SARS-CoV-2 Antigen Test Kit (colloidal gold method)	BSK01S1S/BSK01M1S	25T/50T
SARS-CoV-2 Antigen Test Kit (colloidal gold method)	BSK02S1S/BSK02M1S	25T/50T

▶▶ Food Safety Detection Reagents

5.0 Food Safety Detection Reagents		
Product	Cat No	Package
Enterobacter sakazaii DNA Fluorescence PCR Detection Kit	BSB10M1	48T
Salmonella PCR Fluorescence Quantitative Detection Kit	BSB37S1/BSB37M1	24T/48T
Escherichia coli O157 PCR Fluorescence Quantitative Detection Kit	BSB38S1/BSB38M1	24T/48T
Staphylococcus Aureus PCR Fluorescence Quantitative Detection Kit	BSB39S1/BSB39M1	24T/48T
Pseudomonas Aeruginosa PCR Fluorescence Quantitative Detection Kit	BSB41S1/BSB41M1	24T/48T
Chicken DNA Real Time PCR Detection Kit	BSB42S1/BSB42M1	24T/48T
Duck DNA Real Time PCR Detection Kit	BSB43S1/BSB43M1	24T/48T
Goose DNA Real Time PCR Detection Kit	BSB44S1/BSB44M1	24T/48T
Bovine DNA Real Time PCR Detection Kit	BSB45S1/BSB45M1	24T/48T
Pig DNA Real Time PCR Detection Kit	BSB46S1/BSB46M1	24T/48T
Ovine DNA Real Time PCR Detection Kit	BSB47S1/BSB47M1	24T/48T
Horse DNA Real Time PCR Detection Kit	BSB48S1/BSB48M1	24T/48T
Donkey DNA Real Time PCR Detection Kit	BSB49S1/BSB49M1	24T/48T
Mouse DNA Real Time PCR Detection Kit	BSB50S1/BSB50M1	24T/48T
Bovine/Pig/Duck DNA Real Time PCR Detection Kit	BSB53S1/BSB53M1	24T/48T
Listeria Monocytogenes PCR Fluorescence Quantitative Detection Kit	BSB54S1/BSB54M1	24T/48T
Vibrio Parahemolyticus PCR Fluorescence Quantitative Detection Kit	BSB55S1/BSB55M1	24T/48T
Bacillus Cereus PCR Fluorescence Quantitative Detection Kit	BSB56S1/BSB56M1	24T/48T
Escherichia coli PCR Fluorescence Quantitative Detection Kit	BSB61S1/BSB61M1	24T/48T
Staphylococcus aureus PCR Fluorescence Quantitative Detection Kit	BSB62S1/BSB62M1	24T/48T
Bacillus Cereus PCR Fluorescence Quantitative Detection Kit	BSB63S1/BSB63M1	24T/48T
Bacteria PCR Fluorescence Quantitative Detection Kit	BSB64S1/BSB64M1	24T/48T

▶▶ Aquatic Pathogen Detection Reagents

6.0 Aquatic Pathogen Detection Reagents		
Product	Cat No	Package
White Spot Syndrome Virus Real Time PCR Detection Kit	BSN01S1/BSN01M1	16T/32T
Infectious hypodermal and haematopoietic necrosis virus Real Time PCR Detection Kit	BSN02S1/BSN02M1	16T/32T
Shrimp Hemocyte Iridescent Virus Real Time PCR Detection Kit	BSN03S1/BSN03M1	16T/32T
Vibrio Harveyi Real Time PCR Detection Kit	BSN04S1/BSN04M1	16T/32T
EMS & EHP Dual Chanel Real Time PCR Detection Kit	BSN05S1/BSN05M1	16T/32T
Bacteria & Vibrio Dual Chanel Real Time PCR Detection Kit	BSN06S1/BSN06M1	16T/32T
Taura Syndrome Virus Real Time RT-PCR Detection Kit	BSN07S1/BSN07M1	16T/32T
Yellow Head Virus Real Time RT-PCR Detection kit	BSN08S1/BSN08M1	16T/32T
Enterocytozoon hepatopenaei (EHP) Real Time PCR Detection Kit	BSN09S1/BSN09M1	16T/32T

6.0 Aquatic Pathogen Detection Reagents

Product	Cat No	Package
Early Mortality Syndrome/Acute Hepatopancreatic Necrosis Disease (EMS/AHPND) Real Time PCR Detection Kit	BSN10S1/BSN10M1	16T/32T
Hepatopancreatic Parvovirus Real Time PCR Detection Kit	BSN11S1/BSN11M1	16T/32T
Baculovirus Penaei Real Time PCR Detection Kit	BSN12S1/BSN12M1	16T/32T
Macrobrachium rosenbergii shrimp Norda Virus Real Time RT-PCR Detection Kit	BSN13S1/BSN13M1	16T/32T
Edwardsiella Real Time PCR Detection Kit	BSN14S1/BSN14M1	16T/32T
White Spot Syndrome Virus and Infectious hypodermal and haematopoietic necrosis Virus Real Time PCR Detection Kit	BSN15S1/BSN15M1	16T/32T
Viral Hemorrhagic Septicemia Virus Real Time RT-PCR Detection Kit	BSN16S1/BSN16M1	16T/32T
Spring Viraemia of Carp Virus Real Time RT-PCR Detection Kit	BSN17S1/BSN17M1	16T/32T
Koi Herpesvirus Real Time PCR Detection Kit	BSN18S1/BSN18M1	16T/32T
EHP/BNV Triple Real Time PCR Detection Kit	BSN19S1/BSN19M1	16T/32T
EMS/BNV Triple Channels Real Time PCR Detection Kit	BSN20S1/BSN20M1	16T/32T
EMS/EHP/BNV Quadruple Real Time PCR Detection Kit	BSN21S1/BSN21M1	16T/32T

▶▶ Animal Pathogen Detection Reagents

7.0 Animal Pathogen Detection Reagents		
Product	Cat No	Package
FHV-1 Real Time PCR Detection Kit	BSL01S1/BSL01M1	16T/32T
RV Real Time RT-PCR Detection Kit	BSL02S1/BSL02M1	16T/32T
FIPV Real Time RT-PCR Detection kit	BSL03S1/BSL03M1	16T/32T
ASFV Real Time PCR Detection Kit	BSL04S1A/BSL04M1A	24T/48T
ASFV Real Time PCR Detection Kit	BSL04S1B/BSL04M1B	24T/48T
ASFV Real Time PCR Detection Kit	BSL04S1C/BSL04M1C	24T/48T
CAV I Real Time PCR Detection Kit	BSL05S1/BSL05M1	16T/32T
CAV II Real Time PCR Detection Kit	BSL06S1/BSL06M1	16T/32T
CPIV Real Time RT-PCR Detection Kit	BSL07S1/BSL07M1	16T/32T
Bordetella bronchiseptica Real Time PCR Detection Kit	BSL08S1/BSL08M1	16T/32T
CHV Real Time PCR Detection Kit	BSL09S1/BSL09M1	16T/32T
Canine Distemper virus Real time RT-PCR Detection Kit	BSL10S1/BSL10M1	16T/32T
Fcov and Ccov Real Time RT-PCR Detection Kit	BSL11S1/BSL11M1	16T/32T
CPV and FPV Wild strain Real Time PCR Detection Kit	BSL12S1/BSL12M1	16T/32T
Leptospira Real Time PCR Detection Kit	BSL13S1/BSL13M1	16T/32T
FCV Real Time RT-PCR Detection Kit	BSL14S1/BSL14M1	16T/32T
Chlamydia DNA Real Time PCR Detection Kit	BSL15S1/BSL15M1	16T/32T
Mycoplasma Real Time PCR Detection Kit	BSL16S1/BSL16M1	16T/32T
Mycoplasma haemofelis Real Time PCR Detection Kit	BSL17S1/BSL17M1	16T/32T

▶▶ Sample Preservative Fluid & VTM

7.0 Animal Pathogen Detection Reagents		
Product	Cat No	Package
CPV and FPV Real Time PCR Detection Kit	BSL18S1/BSL18M1	16T/32T
Toxoplasma gondii Real Time PCR Detection Kit	BSL19S1/BSL19M1	16T/32T
Babesiidae Real Time PCR Detection Kit	BSL20S1/BSL20M1	16T/32T
Babesia gibsoni Real Time PCR Detection Kit	BSL21S1/BSL21M1	16T/32T
FIV Real Time RT-PCR Detection Kit	BSL22S1/BSL22M1	16T/32T
Feline leukemia virus Real time RT-PCR Detection Kit	BSL23S1/BSL23M1	16T/32T
Brucella Real Time PCR Detection Kit	BSL24S1/BSL24M1	16T/32T
Ehrlichia Real Time PCR Detection Kit	BSL25S1/BSL25M1	16T/32T
Giardia Real Time PCR Detection Kit	BSL26S1/BSL26M1	16T/32T
ASFV wild strain and Gene-deleted vaccine strain Real Time PCR Dual Detection Kit	BSL27S1/BSL27M1	24T/48T
CSFV Real Time RT-PCR Detection Kit	BSL28S1/BSL28M1	24T/48T
PCV II Real Time PCR Detection Kit	BSL29S1/BSL29M1	24T/48T
PRV (gE) Real Time PCR Detection Kit	BSL30S1/BSL30M1	24T/48T
High Pathogenicity PRRSV Real Time RT-PCR Detection Kit	BSL31S1/BSL31M1	24T/48T
American Type PRRSV Strains Real Time RT-PCR Detection Kit	BSL32S1/BSL32M1	24T/48T
PRRSV Universal Real Time RT-PCR Detection Kit	BSL33S1/BSL33M1	24T/48T
PEDV Real Time RT-PCR Detection Kit	BSL34S1/BSL34M1	24T/48T
CSFV/PRRSV/PCVII/PRV(gE) Nucleic Acid Detection Kit (Fluorescence PCR)	BSL36S1/BSL36M1	24T/48T
American Type PRRSV Classical strain/Highly pathogenic/NADC-30 Nucleic Acid Detection Kit (Fluorescence PCR)	BSL37S1/BSL37M1	24T/48T
PEDV/TGEV/PoRV Nucleic Acid Detection Kit (Fluorescence PCR)	BSL38S1/BSL38M1	24T/48T
Yersinia Pestis (YP) Nucleic Acid Detection Kit (Fluorescence PCR)	BSL41S1/BSL41M1	24T/48T
Bacillus anthracis Nucleic Acid Detection Kit (Fluorescence PCR)	BSL42S1/BSL42M1	24T/48T
Porcine Parvovirus Nucleic Acid Detection Kit (Fluorescence PCR)	BSL43S1/BSL43M1	24T/48T
Foot-and-mouth Disease Virus O Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL44S1/BSL44M1	24T/48T
Foot-and-mouth Disease Virus A Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL45S1/BSL45M1	24T/48T
Foot-and-mouth Disease Virus Asia-1 Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL46S1/BSL46M1	24T/48T
Foot-and-mouth Disease Virus Nucleic Acid Detection Kit (Fluorescence PCR)	BSL47S1/BSL47M1	24T/48T
Bluetongue Virus Nucleic Acid Detection Kit (Fluorescence PCR)	BSL48S1/BSL48M1	24T/48T
Avian Influenza Virus H5 Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL49S1/BSL49M1	24T/48T
Avian Influenza Virus H7 Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL50S1/BSL50M1	24T/48T
Avian Influenza Virus H9 Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL51S1/BSL51M1	24T/48T
Avian Influenza Virus Nucleic Acid Detection Kit (Fluorescence PCR)	BSL52S1/BSL52M1	24T/48T
Avian Influenza Virus H5/H7/H9 Subtype Nucleic Acid Detection Kit (Fluorescence PCR)	BSL53S1/BSL53M1	24T/48T
Equine Herpesvirus 1 Nucleic Acid Detection Kit (Fluorescence PCR)	BSL56S1/BSL56M1	24T/48T

8.0 Sample Preservative Fluid & VTM		
Product	Cat No	Package
Sample Preservative Fluid(with nasal swab)	BSC82N1-1	1ml/Tube
Sample Preservative Fluid(with oral swab)	BSC82N1-2	1ml/Tube
Sample Preservative Fluid(with nasal swab)	BSC82X1-A1	2ml/Tube
Sample Preservative Fluid(with oral swab)	BSC82N1-A2	2ml/Tube
Sample Preservative Fluid(with nasal swab)	BSC82X1-B1	3ml/Tube
Sample Preservative Fluid(with oral swab)	BSC82X1-B2	3ml/Tube
Sample Preservative Fluid(with nasal swab)	BSC82X1-C1	4ml/Tube
Sample Preservative Fluid(with oral swab)	BSC82X1-C2	4ml/Tube
Sample Preservative Fluid	BSC82N1-M1	200ml/Bottle
Sample Preservative Fluid	BSC82N1-N1	1000ml/Bottle
Viral Transport Medium (with nasal swab)	BSC85N1	1.8ml/Tube
Viral Transport Medium (with nasal swab)	BSC85X1-A1	2ml/Tube
Viral Transport Medium (with oral swab)	BSC85X1-A2	2ml/Tube
Viral Transport Medium (with nasal swab)	BSC85X1-B1	3ml/Tube
Viral Transport Medium (with oral swab)	BSC85X1-B2	3ml/Tube
Viral Transport Medium (with nasal swab)	BSC85X1-C1	4ml/Tube
Viral Transport Medium (with oral swab)	BSC85X1-C2	4ml/Tube
Viral Transport Medium	BSC85S1	100ml/Bottle
Viral Transport Medium	BSC85M1	200ml/Bottle
Viral Transport Medium	BSC85L1	1000 ml/Bottle
Sample Preservative Fluid	BSC89S1	100mL/Bottle
Sample Preservative Fluid	BSC89M1	200mL/Bottle
Sample Preservative Fluid	BSC89L1	1000mL/Bottle
Sample Preservative Fluid	BSC89X1-A	1mL/ tube
Sample Preservative Fluid	BSC89X1-B	2mL/ tube
Sample Preservative Fluid	BSC89X1-C	3mL/ tube
Sample Preservative Fluid	BSC89X1-D	4mL/ tube
Sample Preservative Fluid	BSC89X1-E	5mL/ tube
Sample Preservative Fluid	BSC89X1-F	6mL/ tube
Sample Preservative Fluid	BSC89X1-G	7mL/ tube
Sample Preservative Fluid	BSC89X1-H	8mL/ tube
Sample Preservative Fluid	BSC89X1-I	9mL/ tube
Sample Preservative Fluid	BSC89X1-J	10mL/ tube
Saliva Collection Kit	BSC91X1-B	1T
Saliva Collection Kit	BSC92X1-B	1T
Saliva Collection Kit	BSC93X1-B3	3mL/tube



▶▶ Cell Cryopreservation Solution

9.0 Cell Cryopreservation Solution		
Product	Cat No	Package
BioBanker Cell Cryopreservation Solution	BSI07M1	120mL
BioBanker Easy Cell Cryopreservation Solution	BSI08S1	20mL
BioBanker RM Cell Cryopreservation Solution	BSI09S1	20mL

▶▶ Sputum Liquefaction Fluid

10.0 Sputum Liquefaction Fluid		
Product	Cat No	Package
Sputum Liquefaction Fluid	BSC83S1	10ml
Sputum Liquefaction Fluid	BSC83M1	20ml

▶▶ PCR/RT-PCR Reagents

11.0 PCR/RT-PCR Reagents		
Product	Cat No	Package
RT007 AMV Reverse Transcriptase	BSA01T2	30U (10U/μL)
RT007 AMV Reverse Transcriptase	BSA01S2	200U (10U/μL)
RT007 AMV Reverse Transcriptase	BSA01M2	1000U (10U/μL)
RT007 AMV Reverse Transcriptase	BSA01L2	10000 (10U/μL)
Phenol, Equilibrated(Tris-HCl, pH8.0)	BSA02M1	100mL
Phenol:Chloroform:Isoamyl Alcohol(25:24:1)	BSA03M1	100mL
Citrate Balanced Phenol, pH4.3±0.2	BSA04M1	100mL
Water Saturated Phenol	BSA05M1	100mL
Red Blood Cell Lysis Buffer	BSA06M1	120mL
BioReady Taq Pac.	BSA09S1/BSA09M1	200U/500U
BioReady Pfu pac.	BSA10T1	100U
BioReady Pfu pac.	BSA10M1	250U
BioReady Pfu pac.	BSA10L1	500U
BioReady Pfu (no dNTP,ddH2O)	BSA10M1B	250U
BioReady Hot Start Taq	BSA11S1B	100U

11.0 PCR/RT-PCR Reagents		
Product	Cat No	Package
BioReady Hot Start Taq	BSA11M1B	250U
BioReady Hot Start Taq	BSA11L1B	1000U
BioReady rTaq	BSA12N1	100U
BioReady rTaq	BSA12S1	250U
BioReady rTaq	BSA12M1	500U
BioReady rTaq	BSA12L1	1000U
BioReady rTaq	BSA12X1	5000U
BioReady rTaq	BSA12X1A	50000U
BioReady LA Taq	BSA13T2	50U
BioReady LA Taq	BSA13S2	250U
BioReady LA Taq	BSA13M2	500U
dNTP Mixture	BSA14S2A	1mL (2.5mM)
dNTP Mixture	BSA14M2A	5×1mL (2.5mM)
dNTP Mixture	BSA14L2A	100mL (2.5mM)
dNTP Mixture	BSA14T2B	100μL (10mM)
Ultrapure water	BSA15S1	20mL
Ultrapure water	BSA15M1	100mL
DNase/RNase Free H2O	BSA16T1	1mL
DNase/RNase Free H2O	BSA16S1	10mL
DNase/RNase Free H2O	BSA16M1	100mL
Bio DL2000	BSA21T1	10T
Bio DL2000	BSA21S1	50T
Bio DL2000	BSA21M1	200T
BioReady Taq Mix	BSA31T1	20T
BioReady Taq Mix	BSA31S1	1.25mL / 50T
BioReady Taq Mix	BSA31M1	5mL / 200T
BioReady Taq Mix	BSA31L1	10mL / 400T
T4 DNA Ligase	BSA33S1	100U
DNase I	BSA35S1	50T
DNase I	BSA35L1	2mL
6×Loading Dye	BSA36S1	5×1mL
Fluorescent Quantitative PCR Calibration Dye	BSA41S1	96T

# Sample Preservative Fluid

This product is suitable for stably storing viruses in samples such as nasopharyngeal swabs, anal swabs, tissues, feces, saliva, whole blood, serum, plasma, alveolar lavage fluid, and pleural effusion. This product could directly inactivate the virus during storage, which is safe and harmless; it can effectively store DNA / RNA virus for a long time with stable performance. We fully consider the usage environment and set different specifications for easy use. Sample Preservative Fluid is very popular in medical treatment, graziery, inspection and quarantine, scientific research.

## Product Features

### Safety

Rapidly inactivate virus sample and cut off the source of infection to ensure the safety of frontline medical workers.

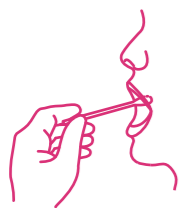
### Stability

Inhibit DNase / RNase activity, stable for transportation and storage at room temperature, effective detection rate.

### Convenience

Different packaging specifications available, suitable for different application scenarios. The swab is convenient to operate, after the medical staff has collected the sample, put the swab directly into the sample preservation tube.

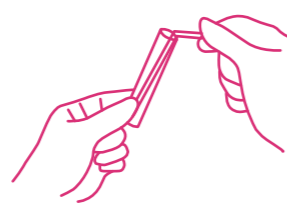
## Usage



Collect samples



Insert into the tube



Break at crease



Tight the cap

## Application Cases

### Case 1

Tested samples were swabs from upper respiratory tract with different concentrations of influenza A virus stored in the Sample Preservative Fluid. The experiment was carried out to test stability of storage for 7 days at 4 °C and 37 °C. After extracting RNA by using BIOER MagaBio Virus DNA / RNA Purification Kit II (Cat. # BSC71) and detecting by Real time RT-PCR, the comparison results of average Ct values are as follows:

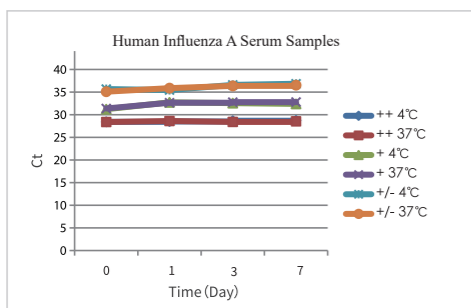


Figure-1

Sample	Storage Temp	Day 0	Day 1	Day 3	Day 7
++	4°C	28.43	28.51	28.67	28.74
	37°C	28.39	28.61	28.41	28.54
+	4°C	31.22	32.73	32.56	32.39
	37°C	31.38	32.65	32.78	32.81
+/-	4°C	35.67	35.45	36.59	36.84
	37°C	35.09	35.87	36.37	36.53

Figure-2

### Case 2

Tested samples were feline coronavirus-positive feces. Sample Preservative Fluid was used at a ratio of 1:10 (1 g feces was stored in 10 mL Sample preservative Fluid). The experiment was carried out to test stability of storage for 7 days at 4 °C and 37 °C. After extracting Feov-RNA from BIOER MagaBio Virus DNA / RNA Purification Kit II (Cat. # BSC71) and detecting it by Real time RT-PCR, the Ct value is as follows:

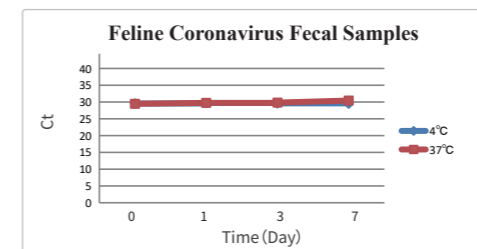


Figure-3

Storage Temp	Day 0	Day 1	Day 2	Day 7
4°C	29.56	29.71	29.6	29.51
37°C	29.47	29.75	29.83	30.44

Table -1

### Case 3

Tested samples are whole blood positive with African Swine fever virus (ASFV) at different concentrations stored in Sample Preservative Fluid. The experiment is carried out to test stability of storage for 7 days at 4 °C and 37 °C. After extracting ASFV-DNA with BIOER MagaBio Virus DNA / RNA Purification Kit II (Cat. # BSC71) and detecting it by Real time PCR, the Ct values are as follows:

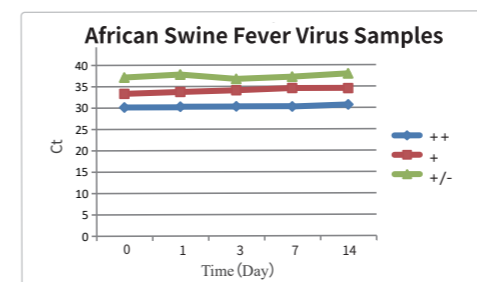


Figure-5

Sample	Day 0	Day 1	Day 3	Day 7	Day 14
++	30.14	30.28	30.32	30.25	30.69
+	33.33	33.73	34.09	34.57	34.51
+/-	37.15	37.81	36.75	37.23	37.97

Table -2

Cat#	Product	Package	Sample Type
BSC82S1	Sample Preservative Fluid	100mL	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC82M1	Sample Preservative Fluid	200mL	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC82L1	Sample Preservative Fluid	1000mL	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC82G1	Sample Preservative Fluid	10L	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC82N1-1	Sample Preservative Fluid (with nasal swab)	1mL/Tube	Nasal swab
BSC82X1-A1	Sample Preservative Fluid (with nasal swab)	2mL/Tube	Nasal swab
BSC82X1-B1	Sample Preservative Fluid (with nasal swab)	3mL/Tube	Nasal swab
BSC82X1-C1	Sample Preservative Fluid (with nasal swab)	4mL/Tube	Nasal swab
BSC82N1-2	Sample Preservative Fluid (with oral swab)	1mL/Tube	Oral swab
BSC82X1-A2	Sample Preservative Fluid (with oral swab)	2mL/Tube	Oral swab
BSC82X1-B2	Sample Preservative Fluid (with oral swab)	3mL/Tube	Oral swab
BSC82X1-C2	Sample Preservative Fluid (with oral swab)	4mL/Tube	Oral swab&Anal swab
BSC82N1	Sample Preservative Fluid (with nasal&oral swab)	1mL/Tube	Nasal swabs&Oral swab
BSC82X1-A	Sample Preservative Fluid (with nasal&oral swab)	2mL/Tube	Nasal swabs&Oral swab
BSC82X1-B	Sample Preservative Fluid (with nasal&oral swab)	3mL/Tube	Nasal swabs&Oral swab
BSC82X1-C	Sample Preservative Fluid (with nasal&oral swab)	4mL/Tube	Nasal swabs&Oral swab

# Viral Transport Medium

This product is based on Hank's, adding BSA, HEPES, amino acids, glycerin and other components, suitable for virus stable preservation from nasopharyngeal swabs, anal swabs, tissues, feces, saliva, whole blood, serum, plasma, alveolar lavage fluid, pleural effusion and other samples. This product has a non-inactivated preservation system, which can effectively protect the protein and nucleic acid of the virus, and relatively complete preservation of the virus activity, so as to facilitate its subsequent application in the isolation, culture and research of virus.

## Product Features

### Wide application

suitable for the collection and preservation of all kinds of virus.

### Easy to use

provide a variety of packaging specifications, convenient to use in different situations.

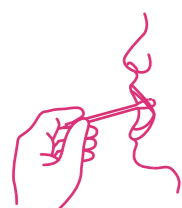
### Flexible application

while satisfying the requirements of nucleic acid extraction, the virus can also be isolated and cultured for subsequent scientific research and testing experiments.

### Quality assurance

Hundred level laminar flow workshop, fully automated production.

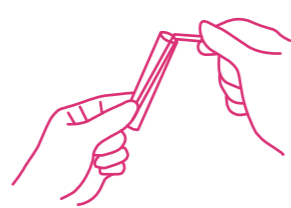
## Usage



Collect samples



Insert into the tube



Break at crease



Tight the cap

## Application Case

### Case 1

The CoV RNA virus was stored in Viral Transport Medium and stored at 2-8°C and 37°C for 1, 3, 5, 9, 22 and 30 days, respectively, to compare the stability of nucleic acids under different temperature conditions. CoV RNA was extracted using Bioer MagaBio Plus virus DNA/ RNA purification kit II, and RT-PCR amplification was performed using Bioer 9600 Plus fluorescence quantitative PCR instrument. Ct results are as follows:

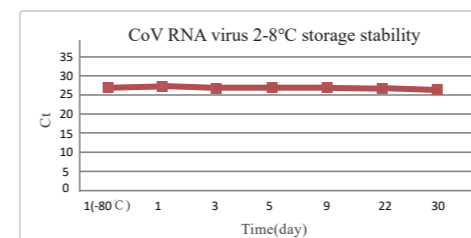


Figure-1

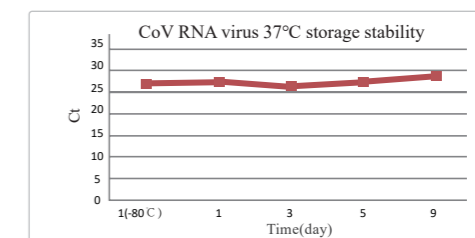


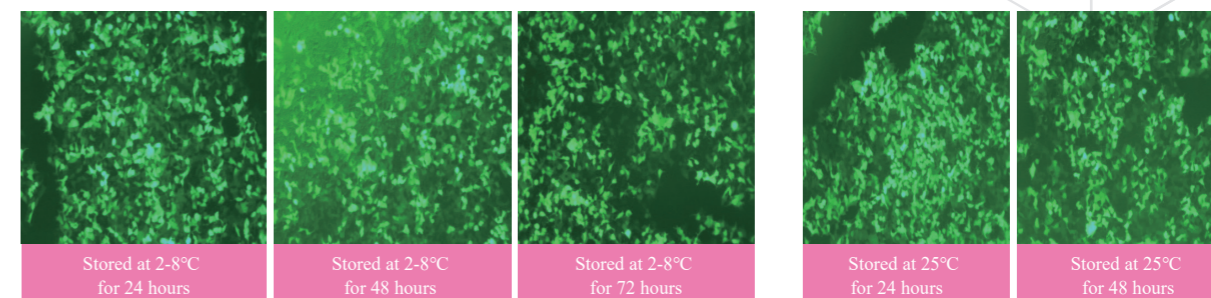
Figure-2

Sample	Storage Temp	Day 1(-80°C)	Day 1	Day 3	Day 5	Day 9	Day 22	Day 30
CoV virus	2-8°C	27.115	27.415	26.605	26.725	26.735	26.725	26.525
	37°C	27.120	27.575	26.210	27.495	28.830	-	-
Negative	-	-	-	-	-	-	-	-

Table -1

### Case 2

Lentivirus samples were stored in Viral Transport Medium and placed under the conditions of 2-8°C and 25°C respectively. 293T cells were infected at 24h, 48h and 72h. The activity of virus was verified by monitoring the expression of green fluorescent protein:



Result: BSC85 can improve the positive rate of virus isolation and preserve the virus and its activity.

Cat No	Product	Package	Sample Type
BSC85S1	Viral Transport Medium	100mL	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC85M1	Viral Transport Medium	200mL	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC85L1	Viral Transport Medium	1000mL	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC85G1	Viral Transport Medium	10L	Nasal swabs, pharyngeal swabs, body fluids, feces
BSC85N1-1	Viral Transport Medium (with nasal swab)	1mL/Tube	Nasal swab
BSC85X1-A1	Viral Transport Medium (with nasal swab)	2mL/Tube	Nasal swab
BSC85X1-B1	Viral Transport Medium (with nasal swab)	3mL/Tube	Nasal swab
BSC85X1-C1	Viral Transport Medium (with nasal swab)	4mL/Tube	Nasal swab
BSC85N1-2	Viral Transport Medium (with oral swab)	1mL/Tube	Oral swab
BSC85X1-A2	Viral Transport Medium (with oral swab)	2mL/Tube	Oral swab
BSC85X1-B2	Viral Transport Medium (with oral swab)	3mL/Tube	Oral swab
BSC85X1-C2	Viral Transport Medium (with oral swab)	4mL/Tube	Oral swab&Anal swab
BSC85N1	Viral Transport Medium (with nasal&oral swab)	1mL/Tube	Nasal swabs&Oral swab
BSC85X1-A	Viral Transport Medium (with nasal&oral swab)	2mL/Tube	Nasal swabs&Oral swab
BSC85X1-B	Viral Transport Medium (with nasal&oral swab)	3mL/Tube	Nasal swabs&Oral swab
BSC85X1-C	Viral Transport Medium (with nasal&oral swab)	4mL/Tube	Nasal swabs&Oral swab

# Simply P Virus DNA/RNA Extraction Kit

Simply P Virus DNA/RNA Extraction Kit is a kit launched by Bioer for the customers' rapid extraction demand of virus nucleic acid. The operation of this kit is simple and fast, the whole process only need nine minutes. The extracted nucleic acid can be directly used in PCR, RT-PCR and other downstream experiments.

## Product Features

### Fast

The extraction process can be finished in 9min.

### Simple extraction

Only four steps are used for the extraction.

### Innovative

High sensitivity can be achieved without the protease K and Carrier RNA.

### Low dependence

Metal baths (or water baths) and frozen centrifuges are not necessary.

### Versatility

Suitable for animal tissues, cultured cells and other liquid samples (such as plasma, serum, ascites, cerebrospinal fluid, etc.)

### Widely usage

Can be used in hospitals, inspection and quarantine, customs and other inspection institutions.

### Good stability

Can be stored at room temperature for 24 months.

## Application Cases

### Case 1

Utilize the negative plasma to make the gradient dilution (10<sup>2</sup>-10<sup>6</sup> IU/mL) of the HBV-positive plasma samples (known concentration), extract the DNA with the Simply P Virus DNA/RNA Extraction Kit, and then test with the high sensitivity HBV DNA Real-time PCR detection kit. The results are as follows:

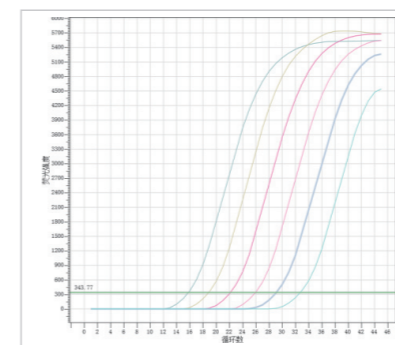


Figure-1

HBV (Unit: IU/ml)	Ct value
10 <sup>6</sup>	19.94
10 <sup>5</sup>	23.13
10 <sup>4</sup>	26.47
10 <sup>3</sup>	29.11
10 <sup>2</sup>	32.77
Negative reference	No Ct

Table -1

The result: Bioer Simply P Virus DNA/RNA Extraction Kit has high sensitivity, can purify the virus DNA of 100IU/mL from the plasma sample.

### Case 2

Make the gradient dilution (10<sup>-1</sup>-10<sup>5</sup>) of positive tissue homogenate sample of porcine epidemic diarrhea virus (PEDV) with PBS, then extract the virus RNA with this kit and test it with PEDV RNA Real-time RT-PCR detection kit of high sensitivity, the result is as following:

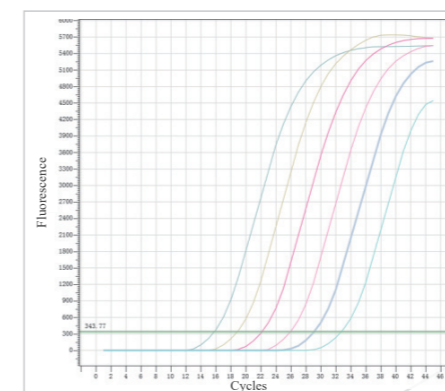


Figure-3

PEDV homogenate	Ct value
Tissue homogenate	16.78
10 <sup>-1</sup>	19.61
10 <sup>-2</sup>	22.95
10 <sup>-3</sup>	26.54
10 <sup>-4</sup>	29.40
10 <sup>-5</sup>	32.99
Negative reference	No Ct

Table -2

The result: Bioer Simply P Virus DNA/RNA Extraction Kit can obtain high quality RNA from the PEDV homogenate sample of different concentrations and the linearity is good. It shows that this kit has high sensitivity and strong stability.

Cat No	Product	Package	Sample Type
BSC67S1	Simply P Virus DNA/RNA Extraction Kit	50T	Animal and plant tissue homogenate supernatant, serum, plasma, ascites and other fluid samples
BSC67M1	Simply P Virus DNA/RNA Extraction Kit	100T	
BSC67L1	Simply P Virus DNA/RNA Extraction Kit	200T	

# Biospin Virus DNA/RNA Extraction Kit

Biospin Virus DNA/RNA Extraction Kit is a kit with special polymeric membrane as adsorption column membrane, which can adsorb the virus DNA/RNA selectively. The operation is simple and has wide application, high security, etc. It only takes 30mins for the whole experiment.

## ★ Product Features

### Wide application

Suitable for the novel coronavirus, mycoplasma, chlamydia and bacterial pathogens causing respiratory disease.

### Simple operation

The extraction can be finished in 30min, fast and effective.

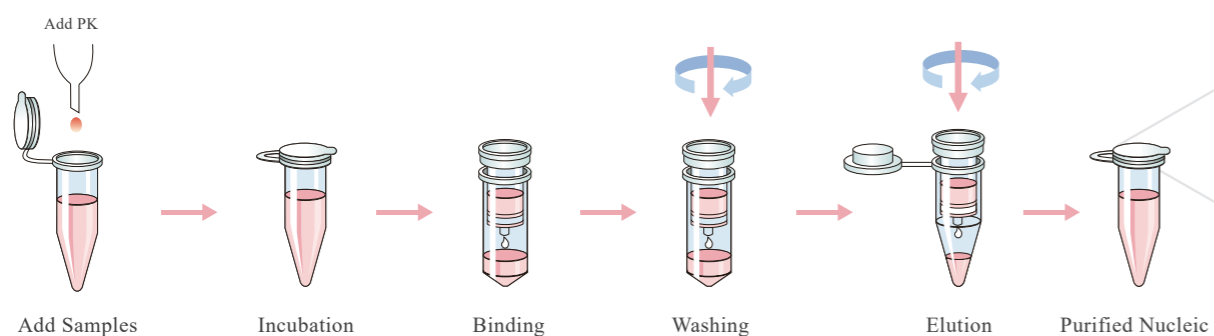
### High sensitivity

The minimum limit of DNA extraction can be 10IU/mL, minimum limit of RNA extraction can be 100IU/mL.

### High security

The reagents are non-toxic and harmless.

## 🔧 Usage



## 📊 Application Cases

### Case 1

Extract the tissue homogenate sample of porcine epidemic diarrhea virus (PEDV) after gradient dilution with PBS by three different brands of spin column nucleic acid extraction reagent, then test it by Real-time RT-PCR, the result is as following:

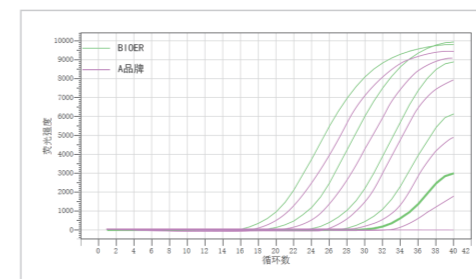


Figure-1

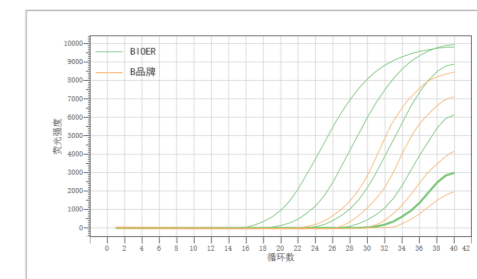


Figure-2

PEDV	Bioer Ct value	A Company Ct value	B Company Ct value
Tissue homogenate	19.95	21.57	26.06
10 <sup>-1</sup>	23.90	25.42	29.67
10 <sup>-2</sup>	27.99	28.69	33.10
10 <sup>-3</sup>	32.45	28.69	36.05
10 <sup>-4</sup>	35.78	37.11	No Ct
Negative reference	No Ct	No Ct	No Ct

Table -1

📊 The result: Biospin Virus DNA/RNA Extraction Kit can extract the RNA efficiently and the performance is superior to other brands.

### Case 2

Take known concentrations of HBV positive plasma sample and make gradient dilution (10<sup>-5</sup> IU/mL) with HBV negative plasma. Extract the DNA with this kit and test it by HBV DNA Real-time PCR test kit of high sensitivity. The result is as following:

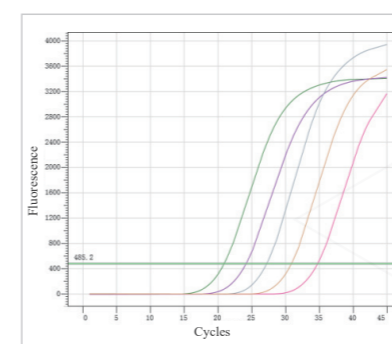


Figure-3

HBV (Unit: IU/ml)	Ct value
10 <sup>5</sup>	21.20
10 <sup>4</sup>	24.40
10 <sup>3</sup>	27.40
10 <sup>2</sup>	31.10
10	35.00
Negative reference	No Ct

Table -2

📊 The result: Bioer Biospin Virus DNA/RNA Extraction Kit can extract the DNA from the virus of 10IU/mL and it shows the high sensitivity.

Cat#	Product	Package	Sample Type
BSC77S1	Biospin Virus DNA/RNA Extraction Kit	50T	Whole blood, plasma, serum, body fluids, animal and plant tissues, feces, swabs, alveolar lavage fluid
BSC77M1	Biospin Virus DNA/RNA Extraction Kit	100T	

# Biospin Total RNA Extraction Kit II

Biospin Total RNA Extraction Kit II is suitable for the purification of high-quality total RNA from animal tissues, cultured cells, bacteria, feces, plants, fungi and other samples. The purified RNA can be directly used for Northern blot analysis, dot blot hybridization, in vitro translation, RNase protection analysis, RT-PCR, construction of cDNA library, etc.

## ★ Product Features

### High purity

High yield and good purity.

### Convenient

Fast and simple operation.

### Strong versatility

Suitable for animals, bacteria, plants, fungi, feces, etc.

### Wide applications

Suitable for a variety of downstream experiments.

## Application Cases

### Case 1

Extract the total RNA of 50mg mice lung, 20mg mice kidney and monolayer cultured cell with spin column total RNA extraction kits of three different brands, elute with 50μL. The extracted product was tested by ultra-micro UV spectrophotometer and agarose gel electrophoresis, the result was as following:

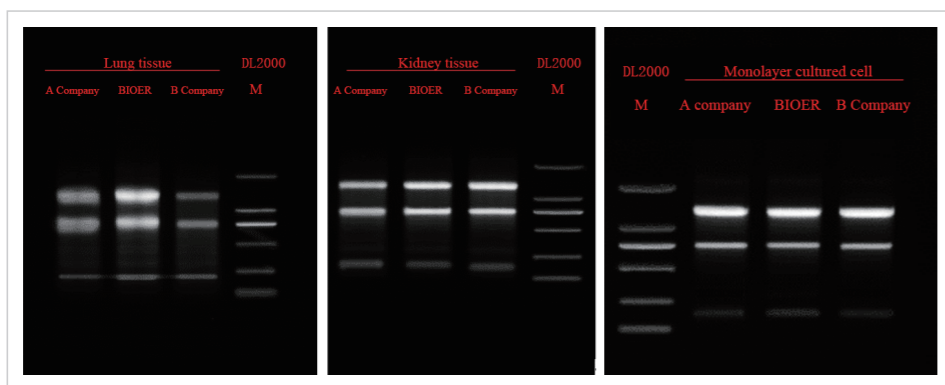


Figure-1 1% agarose gel electrophoresis graph

Brand	Lung tissue			Kidney tissue			Monolayer cell		
	Con. (ng/μL)	OD260/OD280	OD260/OD230	Con. (ng/μL)	OD260/OD280	OD260/OD230	Con. (ng/μL)	OD260/OD280	OD260/OD230
Bioer	1342.90	2.13	2.24	503.10	2.12	2.17	361.40	2.06	1.82
A Company	933.30	2.08	2.06	451.90	2.10	2.10	352.00	2.08	1.90
B Company	948.70	2.10	2.10	513.60	2.08	2.18	356.30	2.06	1.72

Table -1 The concentration and purity measured by ultra-micro UV spectrophotometer

Result: The performance of Bioer Biospin Total RNA Extraction Kit II is superior to other brand and the operation is simple.

### Case 1

Take two kinds of plant leaves sample (Radix Ophiopogonis leaf, Buxus leaf), take each 50mg after grinding by liquid nitrogen, extract the total RNA with spin column total RNA purification kits of three different brands, elute with 100μL elution buffer. The extracted product was tested by ultra-micro UV spectrophotometer and agarose gel electrophoresis. The result was as following:

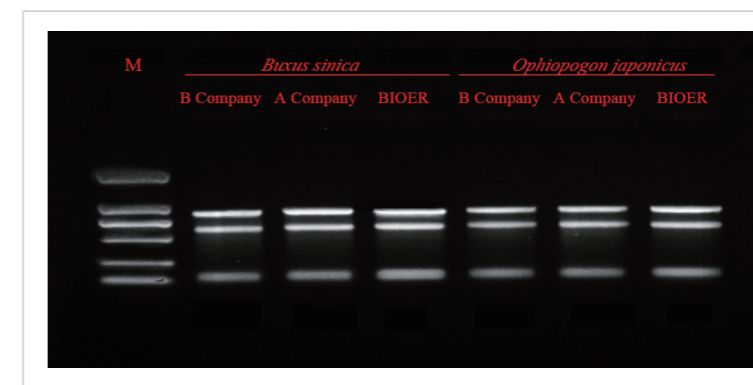


Figure-2 1% agarose gel electrophoresis graph

Sample	Bioer			A Company			B Company		
	Con. (ng/μL)	OD260/OD280	OD260/OD230	Con. (ng/μL)	OD260/OD280	OD260/OD230	Con. (ng/μL)	OD260/OD280	OD260/OD230
Buxus	228.90	2.12	1.60	204.30	2.00	1.03	337.50	2.15	2.38
Radix Ophiopogonis	301.50	2.12	1.26	251.80	2.13	2.15	308.00	2.12	1.51

Table -2 The concentration and purity measured by ultra-micro UV spectrophotometer

Result: Bioer Biospin Total RNA Extraction Kit II can be used for extracting the total RNA of plants(not polysaccharide, polyphenol plants).

Cat No	Product	Package	Sample Type
BSC80S1	Biospin Total RNA Extraction Kit II	50T	Tissue, fluid samples, white blood cells, culture cells
BSC80M1	Biospin Total RNA Extraction Kit II	100T	Tissue, fluid samples, white blood cells, culture cells

## MagaBio plus General Genomic DNA Purification Kit II

This kit is designed for rapid and reliable isolation of high-quality genomic DNA from blood, tissue, saliva, oral swabs, cultured cells, and dry blood spots. This system provides a fast and convenient method to isolated DNA from a variety of samples. High-quality DNA is suitable for direct use in most downstream applications.

### ★ Product Features

#### Wide applications

It can extract whole blood (fresh anticoagulated whole blood, frozen blood, bone marrow blood), saliva, oral swabs, animal tissues, dried blood spots and other samples.

#### Convenient

Different samples can be extracted on the instrument at the same time using the same procedure.

#### Rapid extraction

Fast, efficient, and high-throughput extraction of high-quality genomic DNA.

#### Wide applications

The purified DNA can be used directly in downstream experiments.

### Application Cases

#### Case 1

Utilize this kit to extract DNA from samples of dried blood spots, tissues, whole blood and saliva. The extracted products are detected by ultra-micro UV spectrophotometer and agarose gel electrophoresis. The results are as follows:

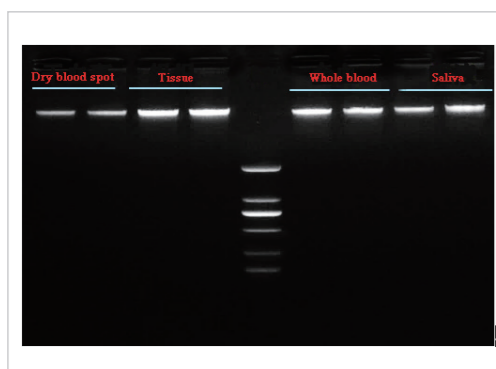


Figure-1 1% agarose gel electrophoresis graph

Samples	NanoDrop Con.(ng/μL)	OD260/OD280	OD260/OD230	Qubit Con.(ng/μL)	Nano/Qubit
Dry blood spots 3mm×8	27.3	1.84	1.43	20.90	1.31
Dry blood spots 3mm×8	24.2	1.86	1.43	17.80	1.36
30mg Kidney tissue	262.1	1.88	2.09	263.00	1.00
30mg Kidney tissue	250.5	1.88	2.02	252.00	0.99
250μL Anticoagulant whole blood	226.8	1.89	2.01	193.4	1.17
250μL Anticoagulant whole blood	197.3	1.92	2.12	172.4	1.14
250μL Saliva	123.1	1.83	1.99	92.00	1.34
250μL Saliva	241.7	1.81	2.21	204.00	1.18

Table-1 Result of ultra-micro UV spectrophotometer

#### Case 2

This kit was used to extract DNA from samples of human bone marrow blood, and the extracted products were detected by ultra-micro UV spectrophotometer. The results are as follows:

Samples	NanoDrop Con.(ng/μL)	OD260/OD280	OD260/OD230	Qubit Con.(ng/μL)	Nano/Qubit
250μL Bone marrow blood-1	1555.60	1.89	2.31	1056.00	1.47
250μL Bone marrow blood-2	1624.20	1.89	2.32	1052.00	1.54
250μL Bone marrow blood-3	1308.10	1.91	2.34	1143.00	1.14
250μL Bone marrow blood-4	1580.00	1.89	2.30	884.00	1.79
250μL Bone marrow blood-5	1906.80	1.88	2.14	668.00	2.85
250μL Bone marrow blood-6	1419.20	1.88	2.29	607.50	2.34

Table-2

The results showed that MagaBio plus General Genomic DNA Purification Kit II can efficiently extract genomic DNA from samples of human bone marrow blood, and the isolated DNA has high concentration, good purity and complete fragments.

**Conclusion:** MagaBio plus General Genomic DNA Purification Kit II could purify genomic DNA from various samples, and the isolated nucleic acid has high yield and purity. The detection results of NanoDrop and Qubit are very close, indicating that the integrity of the purified genomic DNA is very good. To sum up, MagaBio plus General Genomic DNA Purification Kit II is a nucleic acid purification kit with excellent performance, wide application, high efficiency and stability.

Cat No	Product	Package	Notes
BSC74S1	MagaBio plus General Genomic DNA Purification Kit II	50T	Transportation at 25 °C, storage at 2-8°C
BSC74M1	MagaBio plus General Genomic DNA Purification Kit II	100T	
BSC74S1E	MagaBio plus General Genomic DNA Purification Kit II (Pre-packaged plate)	32T	
BSC74L1E	MagaBio plus General Genomic DNA Purification Kit II (Pre-packaged plate)	96T	

## MagaBio Plasma Circulating DNA Purification Kit

This kit is suitable for the purification of free DNA (Circulating free DNA, cfDNA) from plasma, serum, cell-free body fluids and other samples. The unique purification system design ensures that it can remove impurities such as proteins and lipids to the maximum extent. The isolated cfDNA is of high quality and can be widely used in downstream experiments.

### ★ Product Features

#### Wide range of applications

Gene sequencing (such as non-invasive prenatal genetic testing, tumor detection), library construction, etc.

#### Simple operation, stable and precise performance

It can effectively enrich and purify high-quality

## Magabio plus Virus RNA Extraction Kit II

### Automatic extraction

Fast and uniform, high-throughput

### Simple operation

Simple operation, stable performance

## Application Cases

### Case 1

Utilize MagaBio Plasma Circulating DNA Purification Kit and a similar reagent of brand B on the market to extract circulating free DNA (containing 10 $\mu$ L 50bp DNA Marker) in 300 $\mu$ L human serum. The extracted product was detected by 1% agarose gel electrophoresis. Results are as follows:

The picture of electrophoresis shows that MagaBio Plasma Circulating DNA Purification Kit can extract fragments of 50bp, and the band is brighter, and the repeatability is great; the product of brand B can only see the light fragments of 80bp. This indicates that the MagaBio Plasma Circulating DNA Purification Kit has higher extraction efficiency for small fragments of cfDNA.

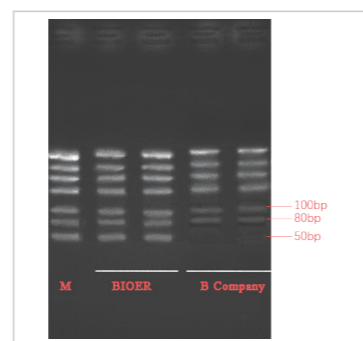


Figure-1

### Case 2

Utilize MagaBio Plasma Circulating DNA Purification Kit to purify cfDNA from 300 $\mu$ L of hyperlipidemic maternal plasma, and then do detection by Real-time PCR, the results are as follows:

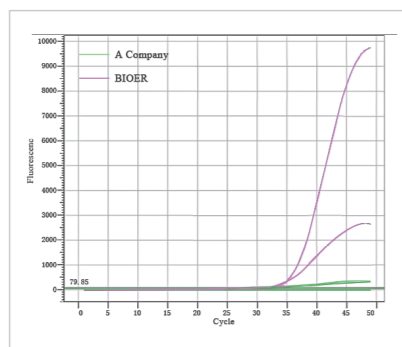


Figure-2

Sample	Ct Value
Bioer	4 $\mu$ LcfDNA: 34.11
	3 $\mu$ LcfDNA: 34.76
	Negative: No Ct
A Company	4 $\mu$ LcfDNA: 37.69
	3 $\mu$ LcfDNA: No Ct Value

Table-1

Real-time PCR results show that the efficiency of using MagaBio Plasma Circulating DNA Purification Kit to extract cfDNA in plasma of pregnant women with high blood lipid is better than similar products of A company in the market.

Cat No	Product	Package	Notes
BSC40S1	MagaBio Plasma Circulating DNA Purification Kit	50T	Stored at 2 $^{\circ}$ C-8 $^{\circ}$ C (Carrier RNA was stored at -20 $^{\circ}$ C)
BSC40M1	MagaBio Plasma Circulating DNA Purification Kit	100T	
BSC40L1F	MagaBio Plasma Circulating DNA Purification Kit(Pre-packaged plate)	96T	
BSC40S1C	MagaBio Plasma Circulating DNA Purification Kit(Pre-packaged plate)	32T	
BSC40S1E	MagaBio Plasma Circulating DNA Purification Kit(Pre-packaged plate)	32T	
BSC40T1E	MagaBio Plasma Circulating DNA Purification Kit(Pre-packaged plate)	16T	

This kit is suitable for the extraction of viral RNA from serum, plasma, tissue, swab (after sampling), stool and body fluid samples. With the COVID-19 test for the most commonly used nasopharyngeal swab samples, this product can finally complete the viral RNA extraction process in 8 minutes after continuous product performance optimization.

## Product Features

### Rapid extraction

Viral RNA extraction was completed in 8min

### Easy to use

No need to add protease K, convenient and fast

### High sensitivity

Sensitivity up to 50 IU/mL

### Good stability

Stable performance, storage at 2-25 $^{\circ}$ C

## Application Cases

### Case 1

Pseudovirus containing ORF1ab gene (FAM channel) and N genes (HEX channel) of SARS-CoV-2 were extracted by Magabio Plus Virus RNA Purification Kit II and diluted according to designed gradient to detect. The results were shown in Figure 1 and Table 1.

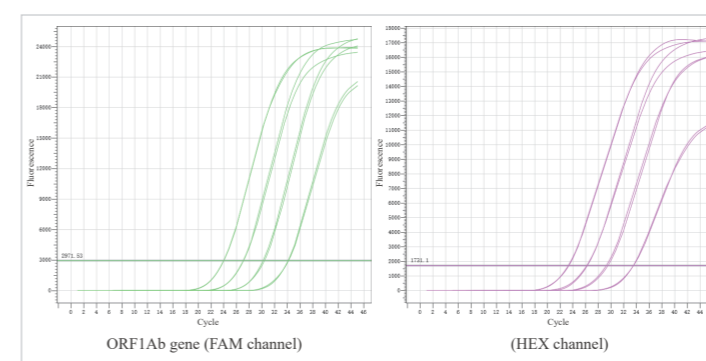


Figure-1

Virus concentration	ORF1ab gene (FAM channel) (Ct Value)	N genes (HEX channel) (Ct Value)
10 <sup>5</sup> copies/mL	23.96	23.18
	23.92	23.05
10 <sup>4</sup> copies/mL	27.13	26.35
	27.17	26.23
10 <sup>3</sup> copies/mL	30.23	29.31
	30.47	29.57
500 copies/mL	33.15	33.79
	33.82	33.09
Negative Control	-	-

Table -1

Result: The distance between each amplification curve of FAM and HEX channels was well-distributed, and the CT value of the corresponding channel of each sample was perfectly consistent with the amplification curve and was a typical "S" curve, indicating that the Magabio Plus Virus RNA Purification Kit II has high precision and high purification rate.



## Case 2

HCV samples extracted from Magabio Plus Virus RNA Purification Kit II were detected by HCV RT-PCR Fluorescence Quantitative Diagnostic Kit, and the results were shown in Figure 2 and Table 2.

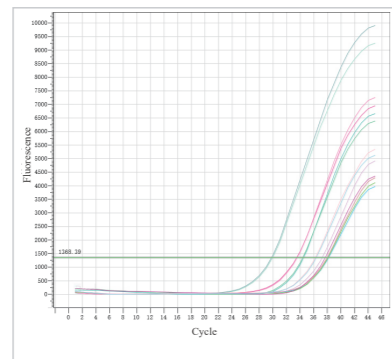


Figure-2

HCV Virus Concentration	Ct Value		Detection Rate
10 <sup>4</sup> IU/mL	29.77	30.33	100%
10 <sup>3</sup> IU/mL	33.48	33.54	100%
500 IU/mL	34.18	33.67	100%
100 IU/mL	36.20	36.35	100%
50 IU/mL	37.94	38.06	100%
	37.68	37.22	
	38.42	38.22	
Negative Control	-	-	-

Table -2

The result: Bioer Biospin Virus DNA/RNA Extraction Kit can extract the DNA from the virus of 10IU/mL and it shows the high sensitivity.

Cat No	Product	Package	Notes
BSC87S1B	MagaBio Plus virus RNA Purification kit II	50T	Storage condition: 2°C-25°C
BSC87S1E	MagaBio Plus virus RNA Purification kit II	32T	Storage condition: 2°C-25°C
BSC87M1E	MagaBio Plus virus RNA Purification kit II	48T	Storage condition: 2°C-25°C
BSC87L1E	MagaBio Plus virus RNA Purification kit II	96T	Storage condition: 2°C-25°C
BSC87S1S	MagaBio Plus virus RNA Purification kit II	32T	Storage condition: 2°C-25°C
BSC87M1S	MagaBio Plus virus RNA Purification kit II	48T	Storage condition: 2°C-25°C
BSC87L1S	MagaBio Plus virus RNA Purification kit II	96T	Storage condition: 2°C-25°C

## HPV Genotyping Real-time PCR Kit

Human papillomavirus (HPV) is a kind of double stranded DNA virus, and the long-term persistent infection of HPV is the main cause of human cervical cancer. HPV genotyping real-time PCR kit can detect 15 kinds of high risk HPV, 3 kinds of medium-risk HPV and 2 kinds of low-risk HPV. This kit adopts fluorescence quantitative PCR method, and has the advantages of high specificity and high sensitivity. It can not only detect the virus in the early stage of infection, but also distinguish the high risk type from the low risk type. It is free from various chemical and biochemical components and other interference, which has guiding significance for the diagnosis and treatment of HPV.

### Product Features

#### High detection throughput

A single experiment of 96 wells can detect up to 24 cases simultaneously

#### High sensitivity

The detection sensitivity can reach 1000 copies/mL

#### Strong specificity

No cross reaction with a variety of other types of HPV and similar pathogens

#### Simple operation

From sample processing to detection results can be completed within 90 minutes

#### Wide detection range

Covering most HPV types in clinical practice

##### 15 high-risk HPV types:



##### 3 medium-risk HPV types:



##### 2 low-risk HPV types:



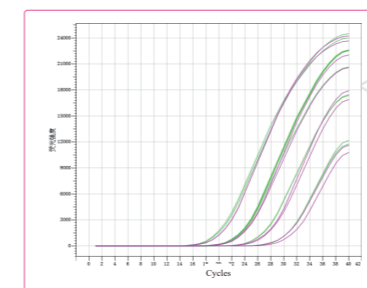
### Specifications

Sample type	Cervical exfoliated cells
Sensitivity	1000 copies/mL
Accuracy	100% (HPV national standard)
Detectability	20 HPV subtypes can be detected in 4 test tubes
Detection time	≤1h 7min
Storage condition	-20 ± 5 °C (avoid light)

### Application Case

#### Case 1

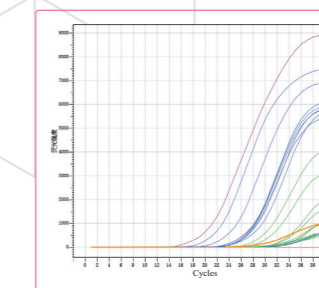
National standard samples containing HPV-16 (purple amplification line) and HPV-18 (green amplification line) were mixed, diluted to 103copies/mL at a 10x gradient and extracted using Bioer MagaBio plus Virus DNA/RNA Extraction Kit (BSC57) then did the test.



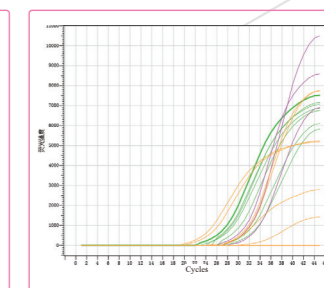
**Result:** The linear relationship of HPV national standard detected by this kit is good; there is no obvious interference between each other.

#### Case 2

Cervical swab samples were extracted using Bioer MagaBio plus Virus DNA/RNA Extraction Kit (BSC57). The detection results were compared with similar kits on the market.



**Result:** The results showed that: compared with the same type of HPV genotyping PCR kit, the total coincidence rate of the detection results of both kits reached 97.2%.



Cat No	Product	Package	Notes
BSJ01M1	HPV Genotyping Real-time PCR Kit	48T	Storage: -20 ± 5 °C (avoid light)

# MagaBio plus Virus DNA/RNA Purification Kit II

This reagent is specially used to extract high-purity viral DNA / RNA from sputum, saliva, alveolar lavage fluid, (nasopharyngeal) swabs, cultured cells and other body fluid samples. This kit uses a unique lysis system to efficiently and rapidly lyse viruses, releasing DNA or RNA, and combining with novel nanoscale magnetic bead to purify nucleic acids efficiently. This kit has the characteristics of good stability, simple operation and high sensitivity. The whole extraction process only takes 35 minutes. The purified nucleic acid can be directly used for downstream detection such as NGS, qPCR and so on.

## ★ Product Features

### Rapid and Reliable

Fast procedures and easy to use

### High Efficiency

≥ 95% of the nucleic acid can be combined

### Safe

Toxic free

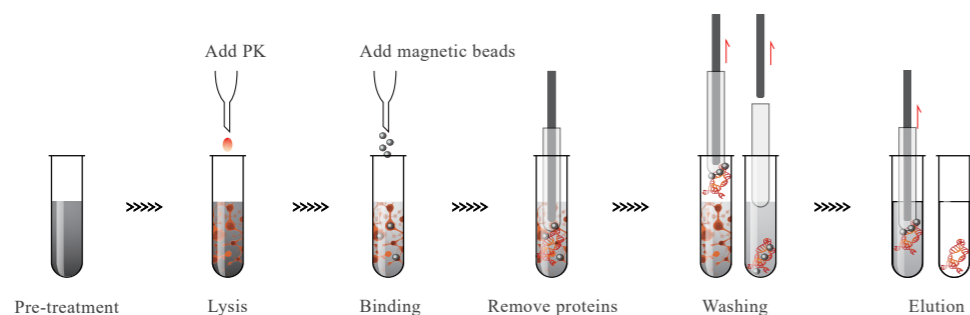
### High Sensitivity

DNA: 5 IU/mL, RNA: 50 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.

## 🔧 Usage



If you use the pre-loading plate, only need to add the samples and PK into the plate, and run the program in the instrument. It could ensure the repeatability of multiple experiments.

## 📊 Application Case

### Case 1

Plasma samples of HBV patients were diluted by negative plasma samples (gradient: 10<sup>-5</sup>). DNA was extracted using MagaBio plus Virus DNA/RNA Purification Kit II and detected using a highly sensitive HBV DNA real-time PCR assay kit. Results Figure 1, Figure 2, Table 1 and Table 2:

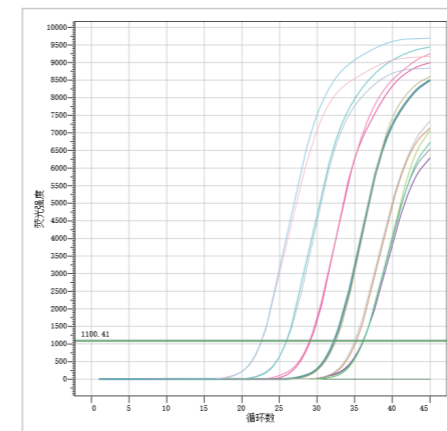


Figure-1

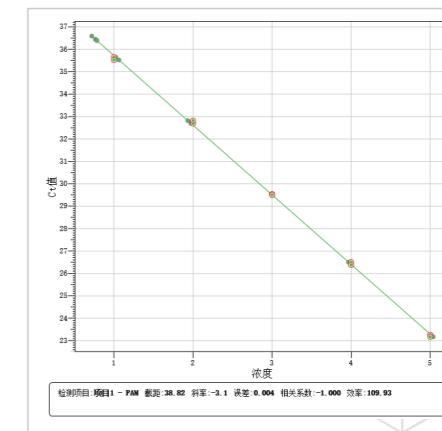


Figure-2

Concentration (IU/mL)	Ct Value
E+05	22.70
E+05	22.75
E+04	25.99
E+04	26.06
E+03	29.07
E+03	29.21
E+02	32.61
E+02	32.36

Table -1

Concentration (IU/mL)	Ct Value
E+01	35.09
E+01	35.31
5	36.19
5	36.28
5	36.22
5	36.25
Negative control	No Ct
Negative control	No Ct

Table -2

The results showed that MagaBio plus Virus DNA/RNA Purification Kit II could extract DNA from the virus at a concentration of 5 IU/mL, which confirmed its high sensitivity.

### Case 2

RNA was extracted using MagaBio plus Virus DNA/RNA Purification Kit II after gradient dilution (50-5×10<sup>5</sup> IU/mL) of negative plasma samples from HCV positive patients at known concentrations. The highly sensitive HCV RNA real-time RT-PCR detection kit was used for detection, and the results were shown in Figure 3 and Table 3:

## MagaBio Plus virus DNA/RNA Extraction Kit III

MagaBio Plus virus DNA/RNA extraction kit III compared to the previous two generations, this product uses a unique lysate system to rapidly lyse the virus, combined with a new magnetic bead technology for the purification of nucleic acids.

The sample types cover whole blood, tissues, plasma, serum, body fluids, animal and plant tissues, feces, swabs, and alveolar lavage fluid, etc., which are more common and do not require protease K.

96 samples can be easily extracted in only 15 minutes. The purified nucleic acid can be used for detection of NGS, qPCR, etc.

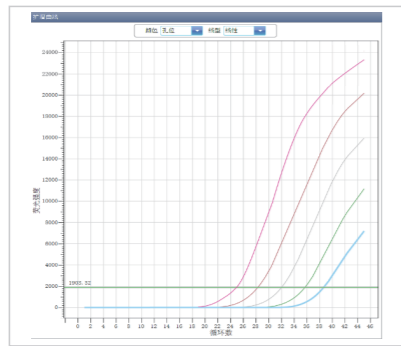


Figure-3

Concentration (IU/mL)	Ct Value
5E+05	25.10
5E+04	28.52
5E+03	32.30
5E+02	35.97
5E+01	38.89
Negative control	NA

Table -3

The results showed that MagaBio plus Virus DNA/RNA Purification Kit II could extract 50IU/mL RNA virus samples, indicating that the product had high sensitivity.

### Case 3

Three different brands of nucleic acid purification reagents were used to extract nucleic acids from ASFV positive pig blood samples, and real-time PCR detection was performed. The comparison results of Ct values were shown in Table 4:

Sample No.	BSC71	Brand A	Brand B
1	20.06	34.20	23.40
2	17.58	20.88	21.88
3	29.12	30.00	32.87
4	36.40	36.68	34.71
5	31.57	32.01	31.67
6	35.38	-	-
7	32.95	34.33	32.61
8	20.38	32.10	22.11
9	33.75	33.56	-
10	29.79	29.89	36.21
11	26.77	26.30	30.29
12	22.89	23.14	27.81

Table -4

The results showed that the performance of MagaBio plus Virus DNA/RNA Purification Kit II was significantly better than competing reagents.

Cat No	Product	Package	Sample Type
BSC71S1B	MagaBio plus Virus DNA/RNA Purification Kit II	50T	Tissue, stool, whole blood, serum, plasma and body fluid samples
BSC71M1B	MagaBio plus Virus DNA/RNA Purification Kit II	100T	
BSC71S1E	MagaBio plus Virus DNA/RNA Purification Kit II (Pre-packaged plate)	32T	
BSC71L1E	MagaBio plus Virus DNA/RNA Purification Kit II (Pre-packaged plate)	96T	
BSC71T1S	MagaBio plus Virus DNA/RNA Purification Kit II (Pre-packaged strip)	16T	
BSC71S1S	MagaBio plus Virus DNA/RNA Purification Kit II (Pre-packaged strip)	32T	

### Product Features

#### Wide application

Suitable for samples of tissue, feces, whole blood, serum, plasma, body fluid samples and swabs.

#### Easy to use

No need to add protease K, just add samples to complete whole extraction.

#### Rapid extraction

96 samples can be extracted in 15 minutes.

#### High sensitivity

The sensitivity of DNA virus extraction was up to 10 IU/mL and RNA virus extraction was up to 50 IU/mL.

### Application Cases

#### Case 1

The nucleic acid of porcine epidemic diarrhea virus (PEDV) was extracted by Magabio Plus Virus DNA/RNA Purification kit III (BSC86) and competitive reagents on the market, and then fluorescence quantitative detection was performed.

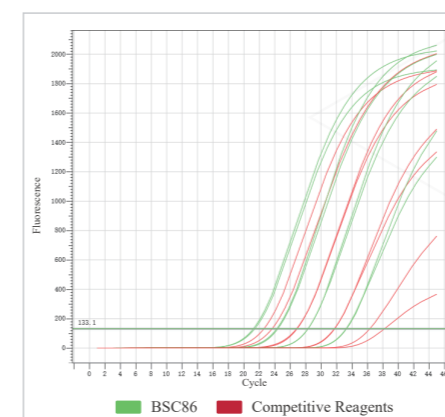


Figure-1

PEDV	BSC86 (Ct value)	Competitive Reagents (Ct value)
10	21.10	22.40
	20.80	23.17
100	24.13	26.85
	23.53	26.58
1000	27.63	31.22
	27.83	31.58
10000	31.48	39.01
	31.52	36.40
Negative Control	-	-

Table -1

The results showed that the Magabio Plus Virus DNA/RNA Purification Kit III could efficiently extract nucleic acids from samples of various concentrations, and the linear relationship was good, and the quality was obviously better than other brand reagent on the market.

## Case 2

The Magabio Plus Viral DNA/RNA Purification Kit III reagent was used to determine the extraction sensitivity of samples with multiple dilutions of HBV DNA and HCV RNA viruses. The extracted products were tested by a highly sensitive detection reagent, and the results were shown in the figure

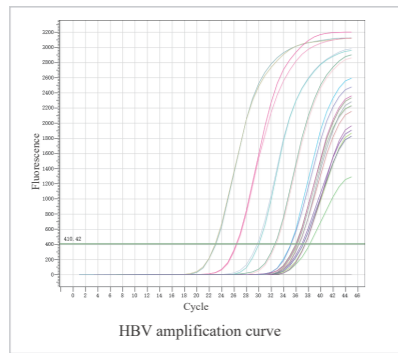


Figure-2

HBV virus concentration	Ct value		Detection rate
10 <sup>4</sup> IU/mL	23.28	22.90	100%
10 <sup>4</sup> IU/mL	26.44	26.63	100%
10 <sup>3</sup> IU/mL	29.88	30.03	100%
10 <sup>2</sup> IU/mL	33.32	32.68	100%
10 IU/mL	37.37	36.40	100%
	35.78	36.62	
	35.25	36.75	
	36.46	36.81	
Negative Control	-	-	-

Table -2

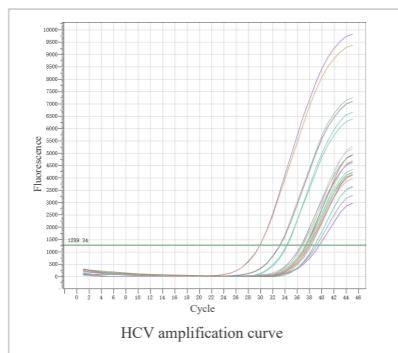


Figure-3

HCV virus concentration	Ct value		Detection rate
10 <sup>4</sup> IU/mL	29.91	29.90	100%
10 <sup>3</sup> IU/mL	33.23	33.14	100%
500 IU/mL	34.41	34.27	100%
100 IU/mL	36.90	36.64	100%
50 IU/mL	37.54	36.78	100%
	37.49	37.43	
	37.83	39.63	
	37.51	38.88	
Negative Control	-	-	-

Table -3

Result: The Magabio Plus Viral DNA/RNA Purification Kit III reagent had a sensitivity of 10 IU/mL for the extraction of HBV DNA virus and 50 IU/mL for the extraction of HCV RNA virus. It indicates that the product has a good sensitivity when extracting DNA/RNA samples.

Cat No	Product	Package	Sample Type
BSC86S1B	Magabio plus Virus DNA/RNA Purification Kit III	50T	Tissue, feces, whole blood, serum, plasma, body fluid samples and swabs
BSC86M1B	Magabio plus Virus DNA/RNA Purification Kit III	100T	
BSC86T1C	Magabio plus Virus DNA/RNA Purification Kit III	16T	
BSC86S1C	Magabio plus Virus DNA/RNA Purification Kit III	32T	
BSC86T1S	Magabio plus Virus DNA/RNA Purification Kit III	16T	
BSC86S1S	Magabio plus Virus DNA/RNA Purification Kit III	32T	
BSC86M1S	Magabio plus Virus DNA/RNA Purification Kit III	48T	
BSC86L1S	Magabio plus Virus DNA/RNA Purification Kit III	96T	
BSC86T1E	Magabio plus Virus DNA/RNA Purification Kit III	16T	
BSC86S1E	Magabio plus Virus DNA/RNA Purification Kit III	32T	
BSC86M1E	Magabio plus Virus DNA/RNA Purification Kit III	48T	
BSC86L1E	Magabio plus Virus DNA/RNA Purification Kit III	96T	

## ASFV real-time PCR detection reagent

African Swine fever virus (ASFV) is a double-stranded DNA virus belonging to Asfarviridae, which can cause acute and hemorrhagic symptoms in domestic pigs or wild boar after infection. The virus spreads quickly among pigs and could have serious effects for the breeding industry if it is not detected in time. Bioer ASFV real-time PCR detection reagent series is specially designed for this virus, with high efficiency, stability, strong specificity and other characteristics, can meet the needs of different users.

### Product Features

#### Short time

The detection time is short and can be used with Bioer one-step method virus nucleic acid extraction kit.

#### Monitorable

The whole process of sampling, extraction and PCR detection can be monitored

#### High efficiency and stability

Specially designed for African swine fever virus, with good practicality, stable storage and transportation

#### Strong versatility

Suitable for all kinds of PCR detection system

### Application Cases

#### Case 1

Nucleic acid was extracted from pig whole blood samples containing African swine fever virus using Bioer MagaBio Plus virus DNA extraction kit II. After gradient dilution of nucleic acid (10-100,000 times), Bioer ASFV real-time PCR detection kit was used for detection.

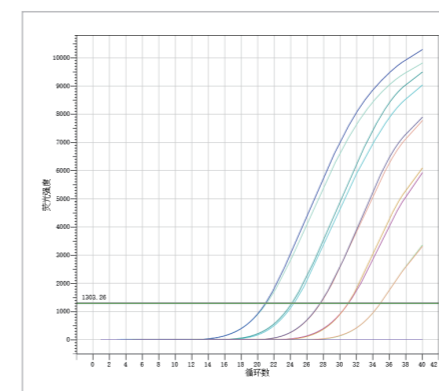


Figure-1

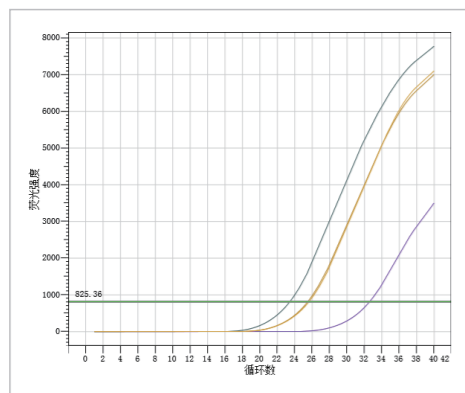
ASFV	Ct Value	
Original liquid	18.66	18.51
10 times dilution	22.29	22.28
100 times dilution	28.82	25.7
1000 times dilution	29.39	29.57
10000 times	32.96	32.62
100000 times	35.62	35.77
Negative control	NoCt	NoCt

Table -1

The Result: Bioer ASFV real-time PCR reagent showed stable and good linearity under different dilution multiples, indicating that this kit had high sensitivity and strong stability.

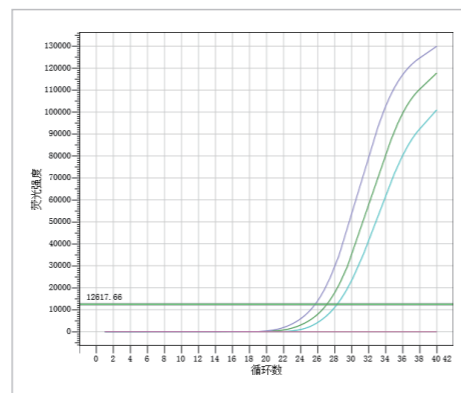
## Case 2

The nucleic acid containing ASFV samples was extracted with the Simply P virus DNA/RNA extraction kit of Bioer Technology, and then detected with the Bioer ASFV real-time PCR detection kit and the other detection reagent of C Company in the market. The results were shown in Figure 2 and Figure 3:



Bioer Technology

Figure-2



C company

Figure-3

The results showed that Bioer ASFV real-time PCR detection reagent detected one more sample than other reagents from C company, indicating that Bioer ASFV real-time PCR detection reagent kit is more sensitive and has a stronger gray area sample detection ability in use, which reduces the risk of missing detection.

Cat#	Product Name	Package	Sample Type
BSL04S1A	ASFV real-time PCR detection reagent	24T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04M1A	ASFV real-time PCR detection reagent	48T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04S1B	ASFV real-time PCR detection reagent	24T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04M1B	ASFV real-time PCR detection reagent	48T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04S1C	ASFV real-time PCR detection reagent	24T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04M1C	ASFV real-time PCR detection reagent	48T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04S1D	ASFV real-time PCR detection reagent	24T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04M1D	ASFV real-time PCR detection reagent	48T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04S1E	ASFV real-time PCR detection reagent	24T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.
BSL04M1E	ASFV real-time PCR detection reagent	48T	Saliva, whole blood, serum, spleen, tonsils, lymph nodes, kidneys and bone marrow, etc.

## SARS-CoV-2 Nucleic Acid Detection Kit

This product selects the ORF1ab and N gene regions of novel coronavirus SARS-CoV-2, and designs two sets of specific primers and fluorescent probes that cover two sites of the gene at the same time. In order to control the entire extraction and detection process, human  $\beta$ -Globin gene was act as a non-competitive internal control during the extraction and detection process. The RT-PCR reaction solution is pre-mixed, which is convenient, efficient, and easy to operate. It utilizes high-efficiency HotStart Taq DNA Polymerase and has strong stability. The kit could be used for auxiliary diagnosis and epidemiological surveillance of novel coronavirus SARS-CoV-2 infection.

### Product Features

#### Stable and high-efficiency

Utilize HotStart Taq DNA Polymerase, the stability is strong.

#### Convenience

The reaction solution is mixed in advance to complete RT-PCR in one step, saving time and effort.

#### High specificity and precision

Primers and probes are designed for specific fragments of two gene regions, which confirm each other to make the results more accurate. Human  $\beta$ -Globin gene as the internal control is included into the reagent to verify the validity of the experiment.

#### Multiple Real-time RT-PCR detection

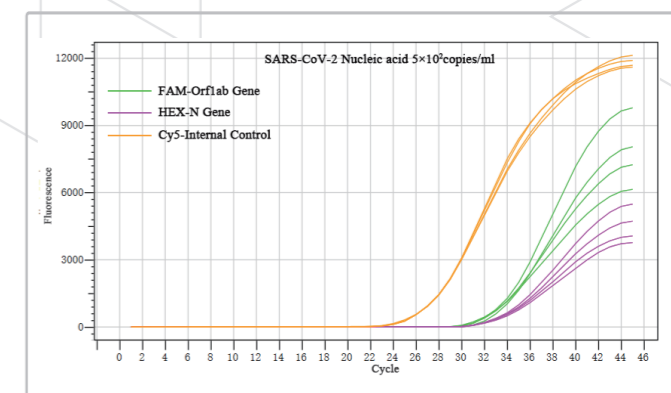
Each channel does not interfere with each other, and the amplification curve is S-shaped.

### Application Cases

#### Case 1

##### Good stability at lower limit concentration detection

2019-nCoV virus nucleic acid sample at concentration of  $5 \times 10^2$  copies / ml, tested using the Bioer SARS-CoV-2 Nucleic Acid Detection Kit to test the stability of the lower limit detection concentration. All samples were detected, with good consistency, indicating that the kit has good stability at the lower limit.

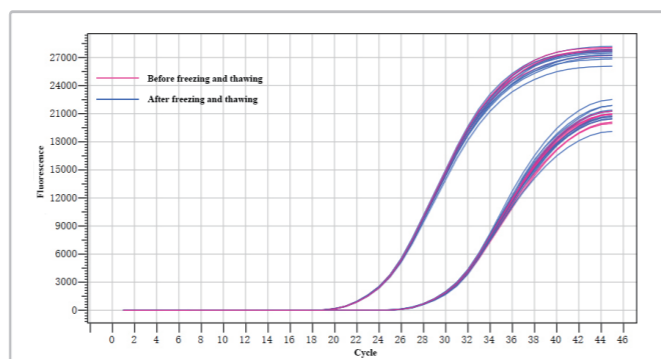


Stability test at the lower limit

### Case 2

#### Excellent freeze-thaw stability

Preparing two groups of Bioer SARS-CoV-2 Nucleic Acid Detection Kit - one group was stored at constant -20° C; the other group was repeatedly frozen and thawed 5 times. Test the two groups of kits, and result shows that the template concentration was 10<sup>6</sup>copies / ml and 10<sup>4</sup>copies / ml. The amplification result showed a smooth S-shaped curve, and there was no significant difference between the freeze-thaw reagent and the well-preserved reagent, indicating that the kit has good freeze-thaw stability.

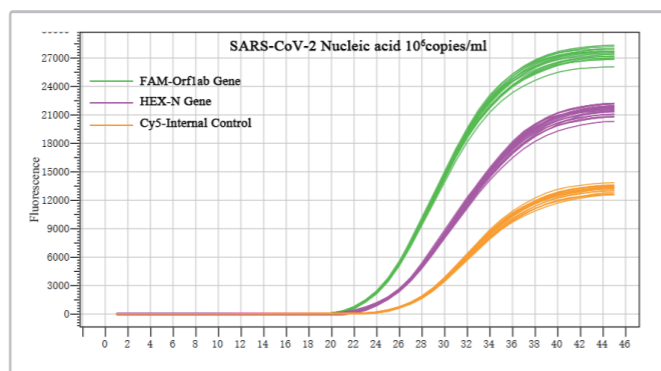


Stability test at the lower limit

### Case 3

#### Excellent uniformity

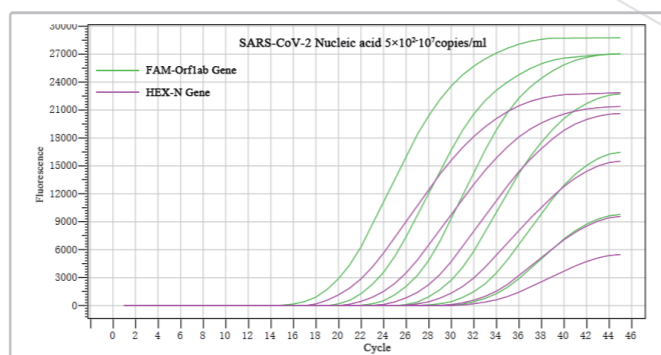
Fifteen 2019-nCoV virus nucleic acid templates at a concentration of 10<sup>6</sup>copies / ml were tested with the Bioer SARS-CoV-2 Nucleic Acid Detection Kit, indicating that all three fluorescence channels have good uniformity.



### Case 4

#### Wide linear range and high sensitivity

Dilute 2019-nCoV virus nucleic acid template with known gradient concentration from 500 to 10<sup>7</sup> copies/ml. Test result with Bioer SARS-CoV-2 Nucleic Acid Detection Kit shows that the product has good linearity and detection sensitivity.



Cat No	Product	Package	Notes
BSJ16S1	SARS-CoV-2 Nucleic Acid Detection Kit	24T	Stored at -20°C
BSJ16M1	SARS-CoV-2 Nucleic Acid Detection Kit	48T	Stored at -20°C

## SARS-CoV-2/ Influenza A Virus/ Influenza B Virus Nucleic Acid Detection Kit (Fluorescence RT-PCR)

The SARS-COV-2, influenza A virus and influenza B virus are infectious and harmful, and can cause similar clinical symptoms and complications. This kit adopts fluorescence quantitative RT-PCR method, which can be timely diagnosed in the early stage of virus infection, and can distinguish the virus type. By labeling different fluorescent signals on the designed specific probes, different fluorescence was generated in the reaction system, so that the three viral nucleic acids could be detected by type in the same reaction tube which greatly improves the work efficiency.

### Product Features

#### 3 in 1

The SARS-COV-2, influenza A virus and influenza B virus nucleic acid can be tested in one reaction of the kit.

#### High sensitivity

Three different batches of reagent were used for testing, and the detection sensitivity could reach 500 copies/mL.

#### Strong applicability

suitable for human nasopharyngeal swabs.

#### High specificity

one-step method to complete RT-PCR, The detection report can be detected within 1H20min.

#### High accuracy

ORF1ab and N genes of SARS-COV-2, 5 subtypes of influenza A viruses (A H1N1, A H3N2, A H5N1, A H7N9) and Victoria and Yamagata strains of influenza B viruses can be detected simultaneously.

#### Strong specificity

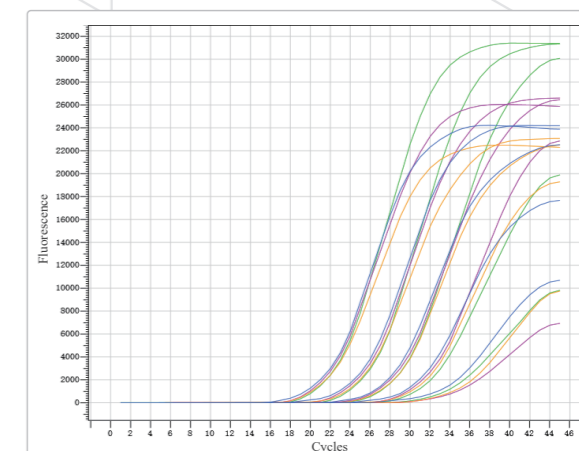
one-step method to complete RT-PCR, The whole procedure can be detected within 80min.

### Application Cases

#### Case 1

Three pseudovirus containing ORF1ab and N genes of SARS-COV-2, influenza A genes, and influenza B genes were premixed and diluted in accordance with a 10-fold gradient. MagaBio plus Virus DNA/RNA Purification Kit III was used for purification.

The results showed that SARS-COV-2, influenza A virus and influenza B virus could be detected simultaneously in the same reaction tube, and the amplification correlation coefficient of each detected target gene was high, the linear relationship was good, and there was no obvious interference between each other.



### Case 2

Using BSC86 extraction reagent to extract influenza A virus, influenza B virus, novel Coronavirus SARS-COV-2 real clinical samples for testing. At the same time, the reagents that have obtained the registration certificate were compared to verify the conformance rate.

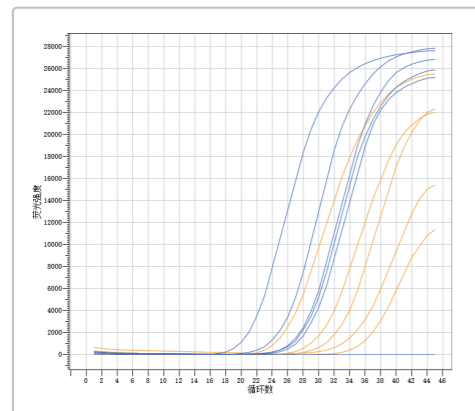


Figure-1

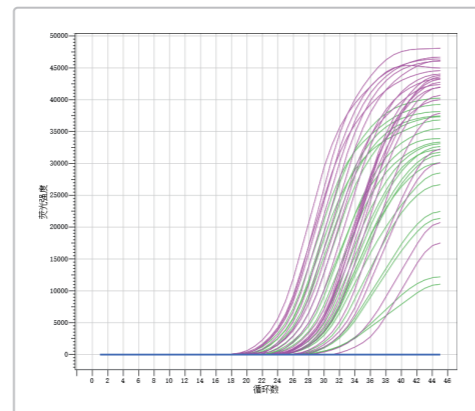


Figure-2

The results showed that SARS-CoV-2, influenza A virus and influenza B virus could be detected simultaneously in the same reaction tube, and the amplification correlation coefficient of each detected target gene was high, the linear relationship was good, and there was no obvious interference between each other.

### Case 3

After 10-fold gradient dilution of SARS-CoV-2, influenza A virus and influenza B virus samples, Bioer BSC86 was used for purification.

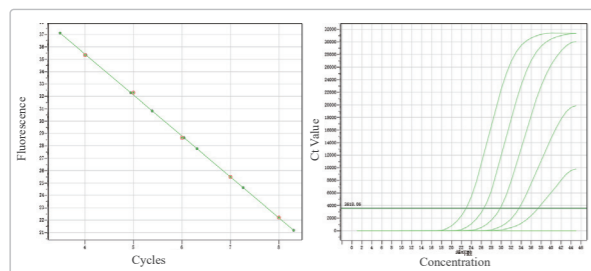


Figure-4 ORF1ab gene of SARS-CoV-2

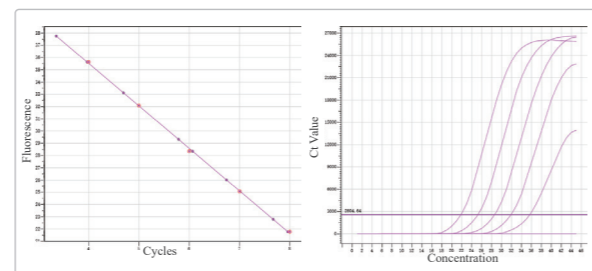


Figure-5 N gene of SARS-CoV-2

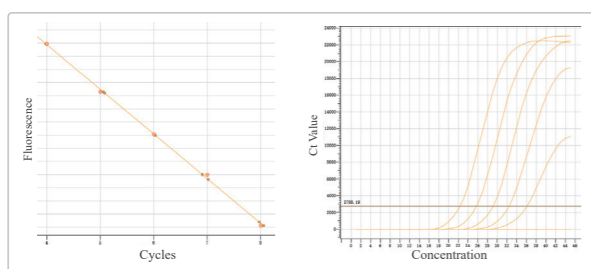


Figure 3 Influenza A virus

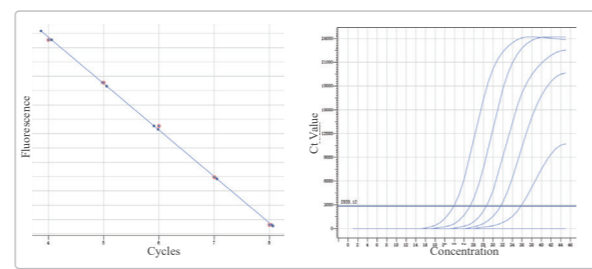


Figure 4 Influenza B virus

The results showed that the amplification correlation coefficients were all above 0.995 with a good linear relationship.

Cat No	Product	Package	Notes
BSJ17S1	SARS-CoV-2/ Influenza A Virus/ Influenza B Virus Nucleic Acid Detection Kit (Fluorescence RT-PCR)	24T	Stored at -20°C
BSJ17M1	SARS-CoV-2/ Influenza A Virus/ Influenza B Virus Nucleic Acid Detection Kit (Fluorescence RT-PCR)	48T	Stored at -20°C

## SARS-CoV-2 Nucleic Acid Rapid Detection Kit (Fluorescence RT-PCR)

The SARS-CoV-2, influenza A virus and influenza B virus are infectious and harmful, and can cause similar clinical symptoms and complications. This kit adopts fluorescence quantitative RT-PCR method, which can be timely diagnosed in the early stage of virus infection, and can distinguish the virus type. By labeling different fluorescent signals on the designed specific probes, different fluorescence was generated in the reaction system, so that the three viral nucleic acids could be detected by type in the same reaction tube which greatly improves the work efficiency.

### Product Features

#### Fast and accurate

This kit only takes 35min for one reaction, and one step to complete RT-PCR, closed tube amplification and detection to prevent aerosol pollution.

#### Strong applicability

Suitable for human nasopharyngeal swabs and sputum.

#### Strong specificity

No cross reaction with similar respiratory viruses. The presence of blood, mucin and nasal secretions in the sample did not affect the test.

#### High specificity

Three different batches of reagents were tested with a sensitivity of up to 200 copies/ml.

### Specifications

Sample Type	Nasopharyngeal swabs and sputum
Sensitivity	200 copies/mL
Accuracy	CV < 5%
Detectability	In the same reaction tube, the SARS-CoV-2 ORF1ab and N genes can be detected simultaneously by qualitative detection of SARS-CoV-2 nucleic acid with double targets.
Supporting Instruments	Specially for Bioer QuantGene 9600
Detection Time	35min
Storage Condition	-20 ± 5 °C avoid light

### Application Cases

#### Case 1

Pseudovirus containing ORF1ab and N genes of SARS-CoV-2 and pathogen cultures were extracted with Bioer MagaBio plus Virus DNA/RNA Purification Kit III and diluted according to a 10-fold gradient to detect.

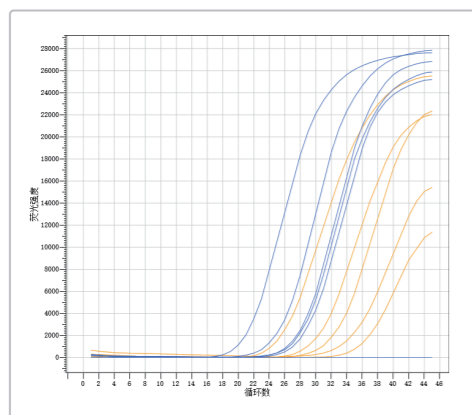


Figure-1

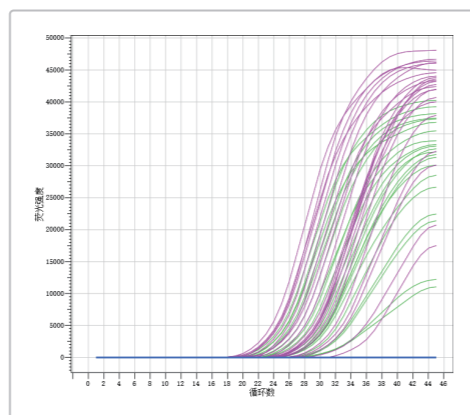


Figure-2

The results showed that the test of SARS-CoV-2 pseudovirus and the nucleic acid test of pathogen cultures both revealed that there was no interference between FAM, HEX and CY5.

### Case 2

Pathogen cultures of SARS-CoV-2 were extracted with Bioer MagaBio plus Virus DNA/RNA Purification Kit III and diluted according to a 10-fold gradient to detect.

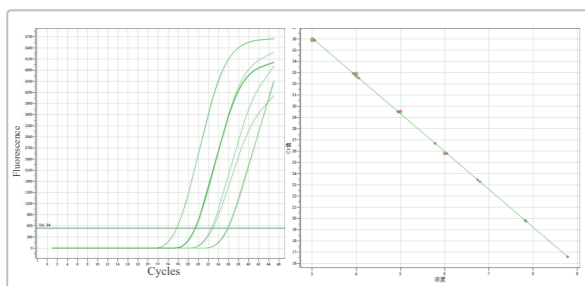


Figure-3 ORF1ab gene of SARS-CoV-2

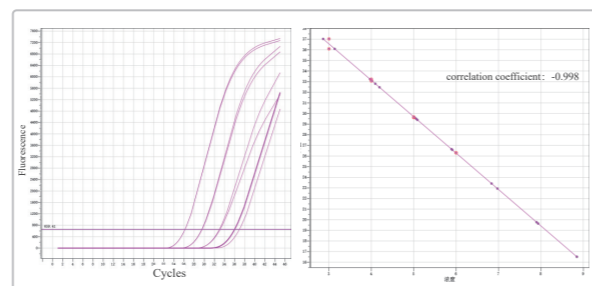


Figure-4 N gene of SARS-CoV-2

In the four gradients (every 10 times gradient dilution), the correlation coefficients of amplification were all above 0.995, 3, and the linear relationship was good.

Cat No	Product	Package	Notes
BSJ21S1	SARS-CoV-2 Nucleic Acid Rapid Detection Kit (Fluorescence RT-PCR)	24T	Storage:-20 ± 5 °C avoid light
BSJ21M1	SARS-CoV-2 Nucleic Acid Rapid Detection Kit (Fluorescence RT-PCR)	48T	Storage:-20 ± 5 °C avoid light

## Saliva Collector

This product collects saliva or sputum samples through a sampling funnel and puts them in the sample preservation solution of the saliva collector. It is harmless to human body and the collection process is easy to accept without discomfort. This product contains ingredients that effectively inhibit DNase/RNase activity and can stably preserve viral nucleic acid in saliva samples for a long time without degradation, and ensure the integrity of viral nucleic acid in samples while inactivating the virus. This product is simple and convenient to use, can be widely used in hospitals, research institutes and other places.

### Product Features

#### Simple and painless

The collection process is simple and painless and the workload of medical staff is reduced

#### Stable and inactivation

Contains ingredients that effectively inhibit DNase/RNase activity and can stably preserve viral nucleic acid in saliva samples for a long time without degradation

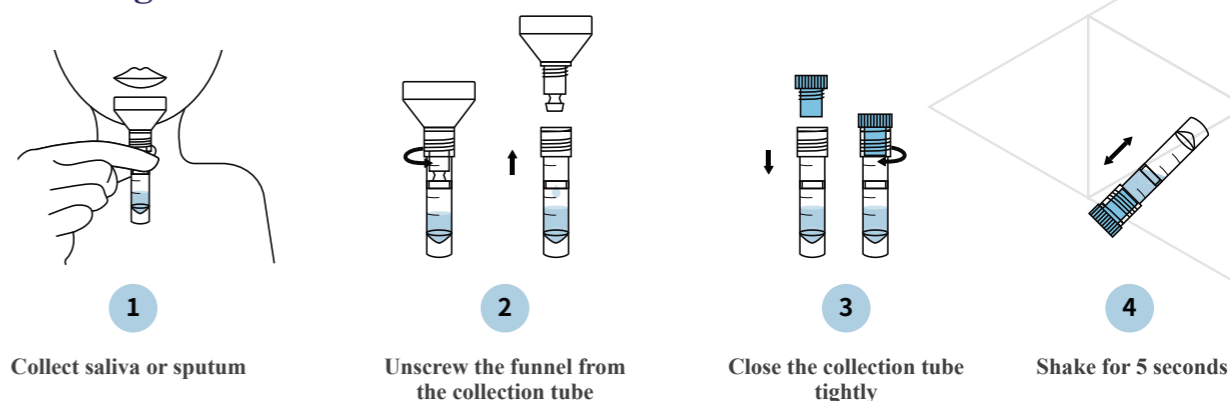
#### Widely uses

Can be widely used in hospitals, scientific research institutions of saliva sample collection and transportation

#### Medical material

The collector selects imported medical grade material, no heat source

### Usage



### Application Cases

#### Case 1

The lentivirus containing SARS-CoV-2 gene was diluted with negative saliva to a 105 copy/mL positive saliva sample, then added into the Saliva Collector (BSC91) and stored at -80°C, 4°C and 37 °C for 35 days. After nucleic acid extraction, PCR detection was performed to determine the nucleic acid stability of SARS-CoV-2 ORF1ab gene (FAM channel) and human β-Globin internal reference gene (CY5 channel) at different storage time and temperature according to the detected CT value. The results are as follows:

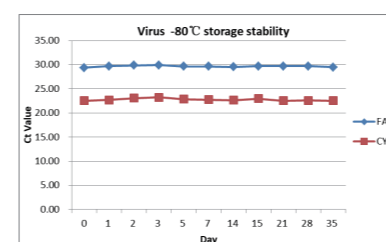


Figure 1 Virus -80°C storage stability

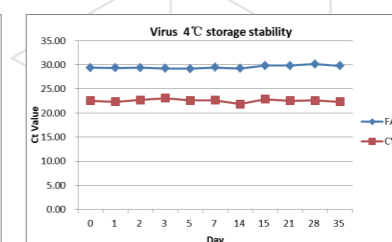


Figure 2 Virus 4°C storage stability

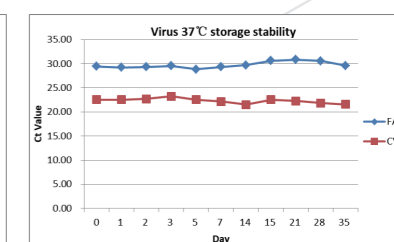


Figure 3 Virus 37°C storage stability

Conclusion: Compared with the Z Company's saliva collector, the BSC91 were able to stably preserve viral nucleic acid in the sample and met the clinical requirements.

Cat#	Product	Package
BSC91X1-B	Saliva collector	2mL/Tube