SINCE 1889

Yamato Scientific America

Vazyme

DNA & RNA Extraction with Instruments

Swift, Automated, Pure

For Science For Health

Vazyme Nucleic Acid Extraction Instruments

	Automatic Nucleic Acids Extraction Instrument	Full-automatic Nucleic Acids Extraction Instrument
Cat#	VNP-32P	VNP-96P
Throughput	1 ~ 32	96
Test Principle	Magnetic Beads Method	
Volume	96-Well Plate: 20 μl ~ 1000 μl	
Heating Temperature	Room Temperature ~ 120°C	
Display	Color touch screen can be connected to external mouse	
Program Management	Add, Edit, Save as, Delete, Program Mode	
Disinfection	UV Disinfection	
Maximum Input Power	500 W	
Size	412 mm × 410 mm × 430 mm	750 mm × 495 mm × 525 mm
Weight (kg)	30 kg	70 kg

The Vazyme instrument experience

A complete system easily automates sample preparation in your lab

Instrument

Select instruments based on your throughput needs

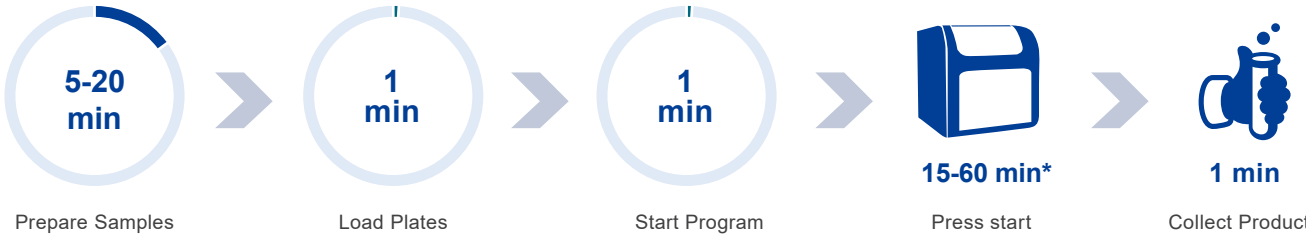
Kits and Consumables

Various choices, such as pre-packaged, bottled

Support

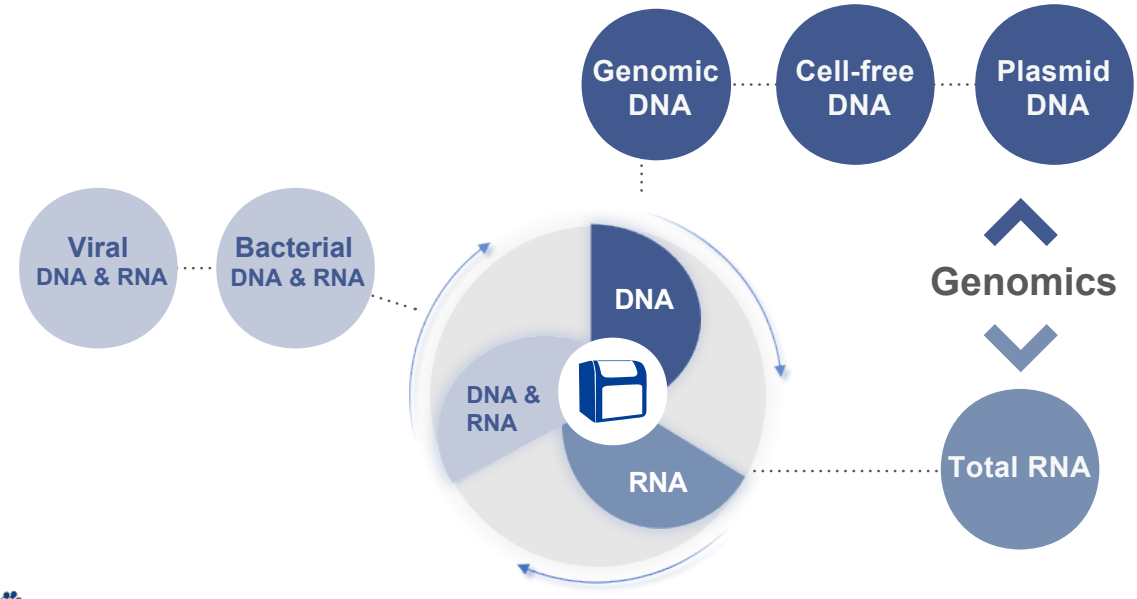
Dedicated instrument specialists

Typical run with Vazyme instrument



* This can vary depending on the application and instrument.

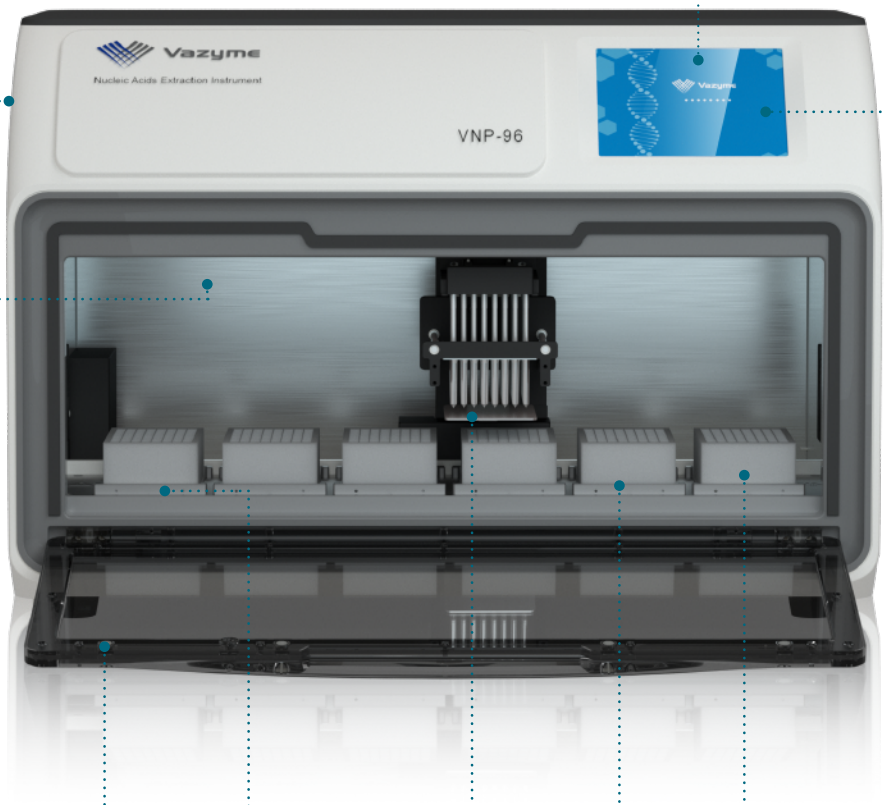
Your samples, for multiple applications



Find out more at www.vazyme.com

The Vazyme instrument

Automatic Nucleic Acids Extraction Instrument



Color Touch Screen

USB and Network Interface

Imported Program and Quick Strat

UV decontamination

Door

Heating Blocks

Magnet Heads

96-well Plate

Elution

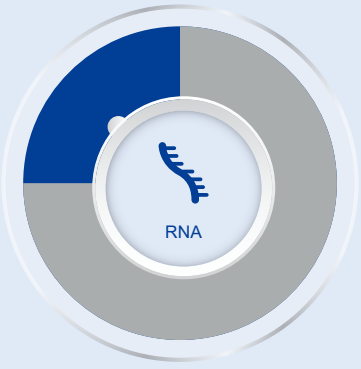
Enhanced performance

Achieve optimal results in DNA and RNA purification with greater flexibility, allowing you to quickly obtain reproducible results for nearly any application.

- User-friendly operation with a one-click start
- Purify 1 to 96 samples in just 13 to 60 minutes
- Equipped with UV light and ventilation fan to effectively prevent contamination
- Control heating module to ensure lyse and elute process

Sample prep as it should be—fast, flexible, consistent.*

RNA

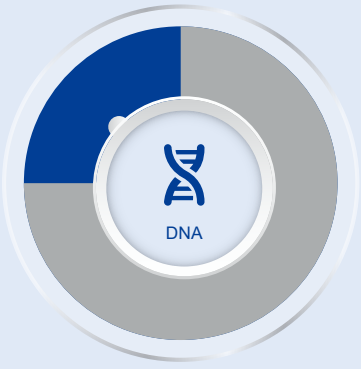


75%
less touch time

DNA

50%
less touch time

cfDNA



75%
less touch time

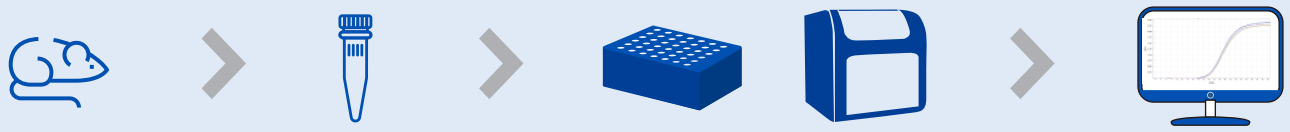
* Based on actual extraction times in lab

Vazyme Automatic Nucleic Acid Extraction Solutions

RNA for gene expression

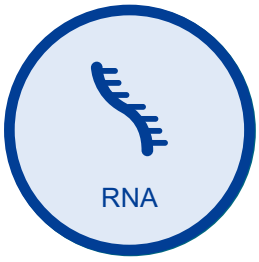
Isolate total RNA from cell and tissue sample using a phenol-and-chloroform free extraction.
The entire process of DNase digestion and RNA purification is fully automatic, with no interruptions.

Sample workflow



Sample collection → Lyse → Load Plates → Analysis

Recommended kits



VAMNE Magnetic Cell/Tissue Total RNA Extraction Kit

Sample type	Animal cells and tissues
Sample input volume	≤30 mg Animal tissues, ≤5 × 10^6 cells
Yield	60 μg from 1 × 10^6 293T cells 50 - 70 μg from 20 mg rat liver 50 μg from 10 mg mouse spleen 6 - 7 μg from 20 mg rat muscle or brain
Elution volume	>50 μL
Processing time	40 min total
Reactions (rxn)	50 × 1 T/ 6 × 16 T for VNP-32P 96 T for VNP-96P
Cat. No.	RMA101, RMA102

Validation Data

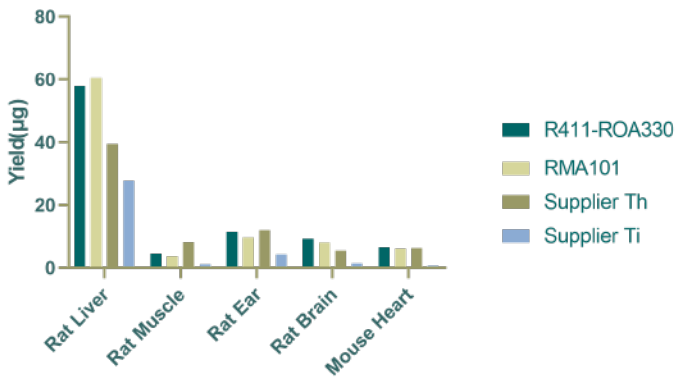
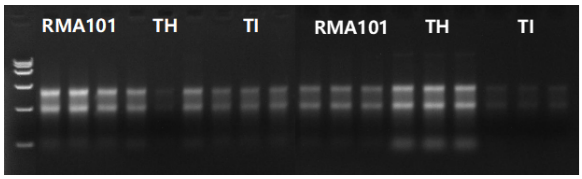
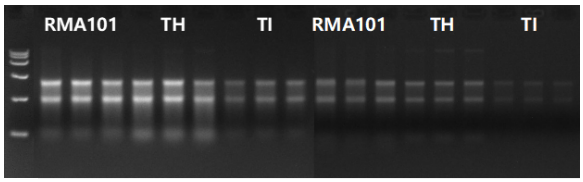


Figure 1. The mean yield of extracted RNA from 10 mg of different animal tissues



Rat liver sample: 0.5 μl, 1.2% gel Rat muscle sample: 5 μl, 1.2% gel

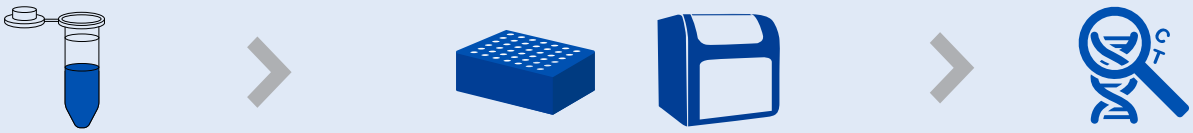


Rat ear sample: 3 μl, 1.2% gel Rat brain sample: 4 μl, 1.2% gel

RNA and DNA for scientific research service

Unlock the benefits of phenol extraction with our all-in-one kit. Perfect for multiple samples and compatible with various complex matrices, it enhances your first-time success rate and makes kit selection a breeze.

Sample workflow



Lyse with VeZol or FreeZol

Load Plates

Analysis

Recommended kits

VAMNE Magnetic Universal Total RNA Kit

Sample type	Animal cells and tissues
Sample input volume	20 - 50 mg tissues ≤1 × 10^7 cells
Yield	55 - 65 μg from 50 mg mouse brain 200 μg from 50 mg mouse liver
Elution volume	>50 μL
Processing time	36 min
Reactions (rxn)	50 × 1 T/ 6 × 16 T for VNP-32P 96 T for VNP-96P
Cat. No.	ROA3301, ROA3302, ROA3303

Validation Data

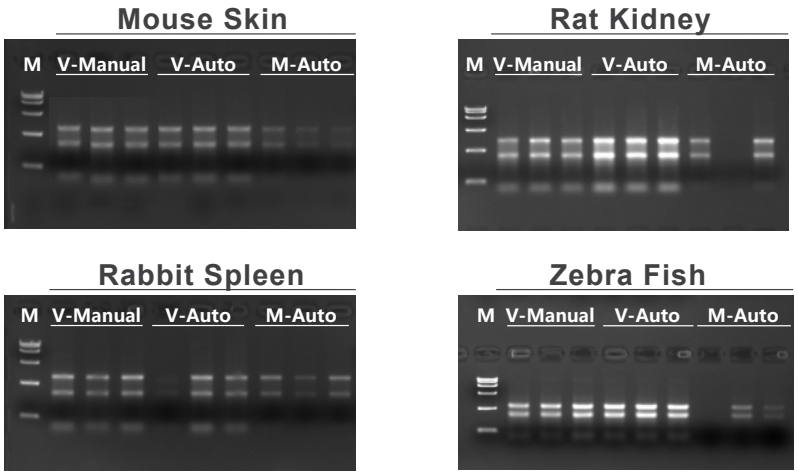
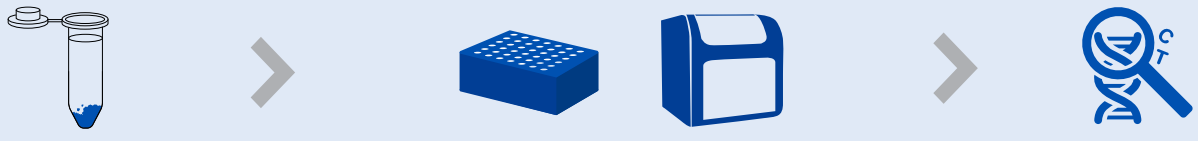


Figure 1. Gel band of Extracted RNA from different animal tissues

DNA from stool, soil samples

Versatile and compatible with various samples such as stool, soil, membranes, water, microbial cultures, and fermentation mash. The entire process is super fast—10 minutes for processing and 20 minutes to easily complete the extraction, helping you conduct efficient experiments!

Sample workflow



Lyse → Load Plates → Analysis

Recommended kits

VAMNE Stool/Soil DNA Extraction Kit	
Sample type	Stool, soil, and water
Sample input volume	50 - 150 mg stool, 250 mg soil and 200 μL water
Yield	1 - 6 μg from 50-150 mg stool
Elution volume	>50 μL
Processing time	20 min
Reactions (rxn)	50 × 1 T/ 6 × 16 T for VNP-32P 96 T for VNP-96P
Cat. No.	DMA5101, DMA5102, DMA5103

Validation Data

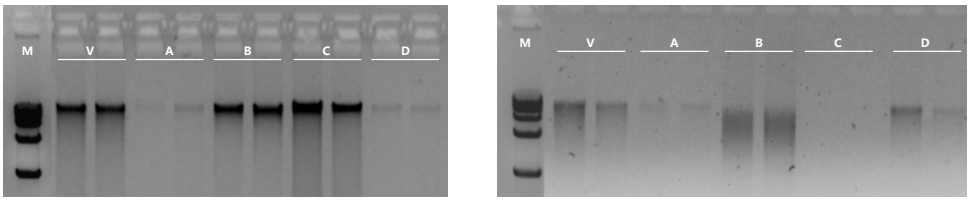


Figure 1. Gel band of extracted DNA from human stool (left) and rhizosphere soil (right)

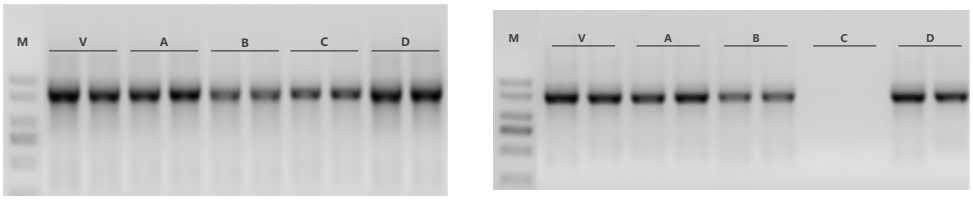
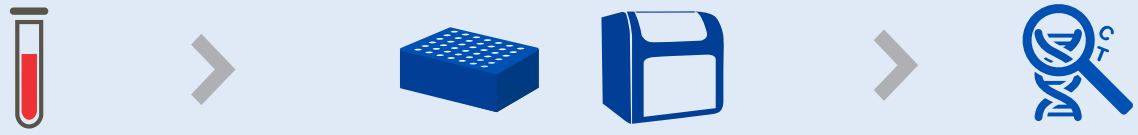


Figure 2. PCR results of DNA extracted from human stool (left) and rhizosphere soil (right)

Genetic testing

Speed up the processing of blood, buccal swab samples for genetic testing.
Recover DNA that is compatible with PCR, qPCR, WGS.

Sample workflow



Lyse | Load Plates | Analysis

Recommended kits

Magnetic Blood DNA Extraction Kit

Sample type	Whole blood and buccal swab
Sample input volume	50 - 200 µL
Yield	3 - 17 µg from whole blood
Elution volume	100 µL
Processing time	48 min
Reactions (rxn)	2 × 16 T/ 6 × 16 T for VNP-32P
Cat. No.	DM102

Validation Data

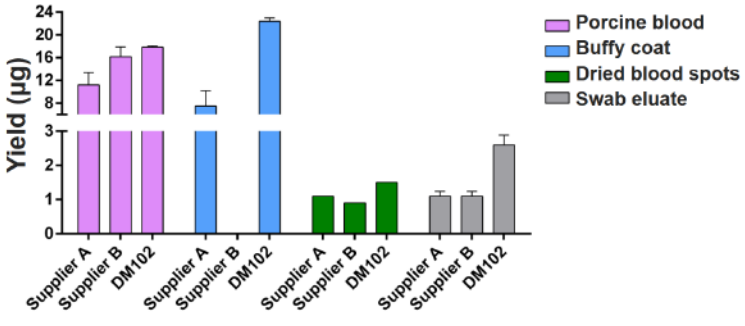


Figure 1. gDNA yields from different samples with different kits

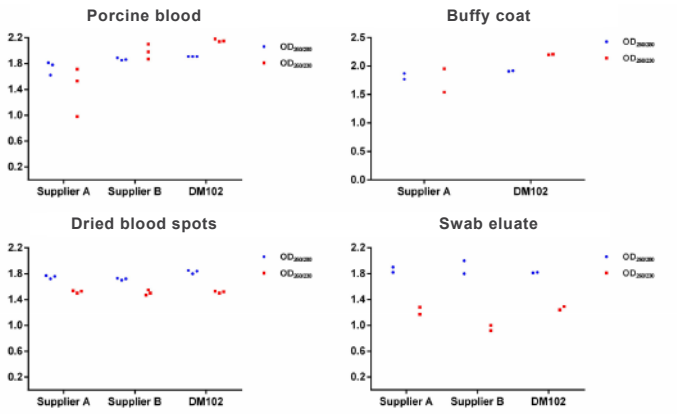


Figure 2. gDNA purity of other samples

FFPE for cancer research

Purify DNA from FFPE samples and get high-quality gDNA yields.
Recover DNA that is compatible with PCR, qPCR, WGS.

Sample workflow

Sample collection | Load Sample | Sample purification | Analysis

Recommended kits

VAMNE MagUltra FFPE DNA Extraction Kit

Sample type	FFPE
Sample input volume	Paraffin section 0.5 - 5 sheets
Yield	Varies
Elution volume	100 µL
Processing time	32 min
Reactions (rxn)	4 × 16 T for VNP-32P
Cat. No.	DM602

Validation Data

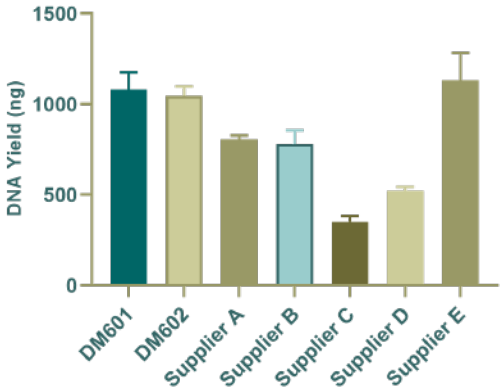


Figure 1. DNA yields of extracted mouse spleen paraffin section with different kits

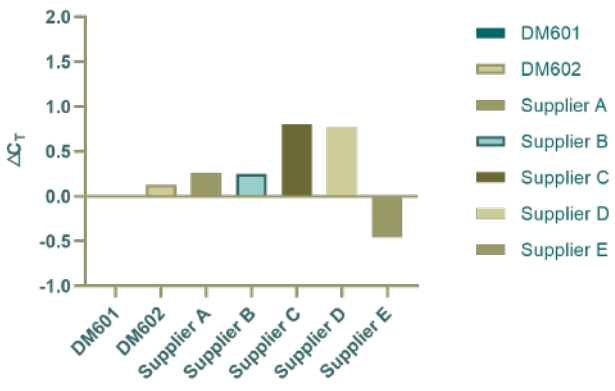
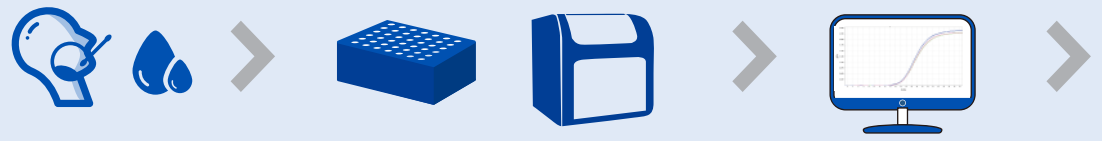


Figure 2. ΔCT value of extracted mouse spleen paraffin section

Infectious disease and microbiome research

Effectively detects diseases caused by viruses, bacteria, and fungi.
The extracted products can be used for RT-qPCR, mNGS, and more.

Sample workflow



Sample collection | Sample purification | Analysis

- Viral/Fungi/Bacteria
- qPCR
- Sequencing

Recommended kits

VAMNE Virus DNA/RNA Extraction Kit 3.0

Sample type	Blood, serum, plasma, tissue homogenate, swab eluate, and saliva
Sample input volume	100 - 400 μL
Yield	Varies
Elution volume	70 μL
Processing time	18 min
Reactions (rxn)	50 × 1 T/ 6 × 8 T/ 6 × 16 T for VNP-32P 96 T for VNP-96P
Cat. No.	RM501, RM502

VAMNE Magnetic Pathogen DNA/RNA Kit

Sample type	Bronchoalveolar lavage fluid, sputum, cerebrospinal fluid, swab eluate, blood, serum, plasma, and saliva
Microbes	Virus, yeast, fungus, gram-negative and gram-positive bacteria
Sample input volume	Biological fluid/swab: ≤1 × 10^7 cells Serum/plasma sample: ≤400 μl
Yield	Varies
Elution volume	80 μL
Processing time	28 min
Reactions (rxn)	6 × 16 T for VNP-32P
Cat. No.	RM602

Validation Data

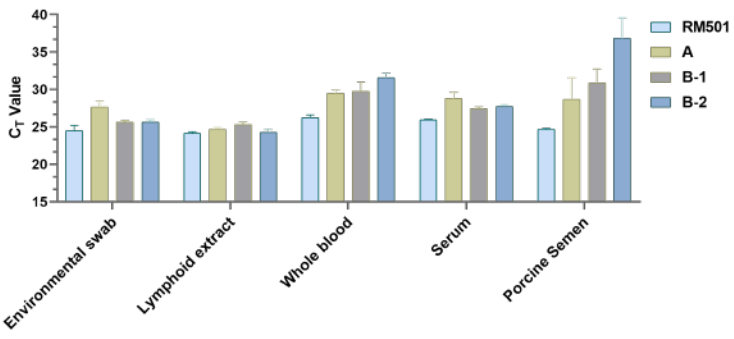


Figure 1. C_T Value of different samples extracted from Vazyme # RM501 and other similar kits

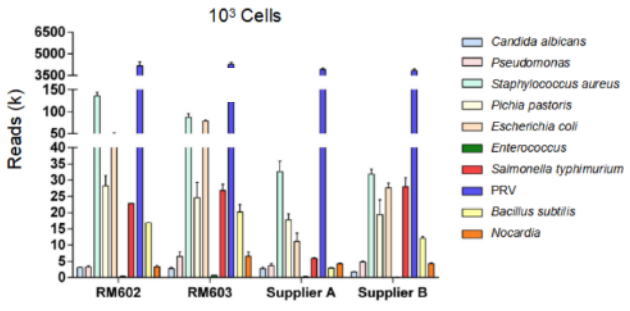
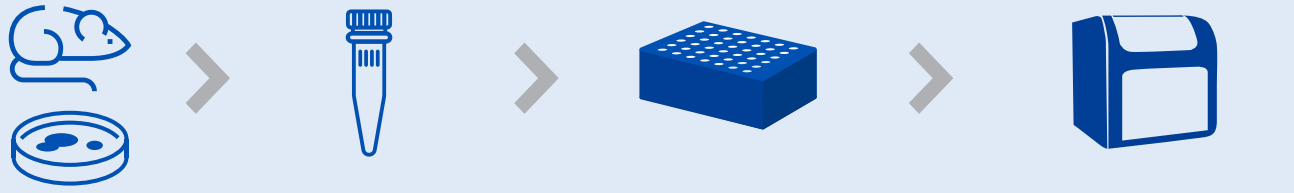


Figure 2. Mapped reads of different pathogens detected in 10^3 HEK 293 cells - mNGS

DNA for downstream analysis

Extract high-quality DNA that is compatible with sequencing or qPCR from multiple sample types.

Sample workflow



Sample collection → Lyse → Add processed samples into the prepackaged plates → Nucleic acid extraction

Recommended kits

FastPure Bacteria DNA Isolation Kit

Sample type	Animal cells and tissues
Sample input volume	Bacteria: <1.5 × 10⁹ Animal cells: <5 × 10⁶ Animal tissues: <25 mg
Yield	85 - 150 μg from 10 mg mouse spleen 120 - 140 μg from 25 mg mouse lung 10 - 15 μg from 3.0×10⁶ 293 T cells
Elution volume	100 μL
Processing time	46 min
Reactions (rxn)	6 × 16 T for VNP-32P 96 T for VNP-96P
Cat. No.	DC112-C3/C5/C6

Validation Data

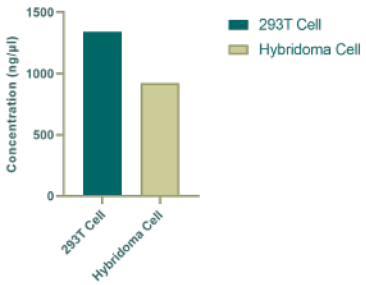


Figure 1. The mean yield rate of extracted RNA from different cell types

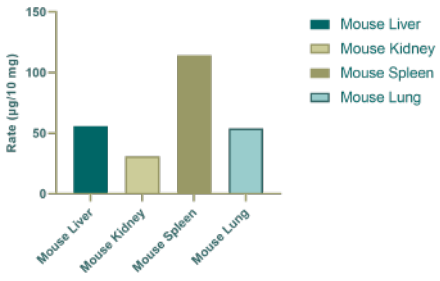
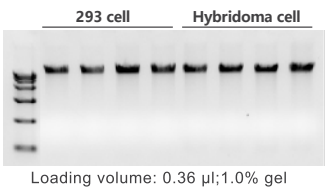
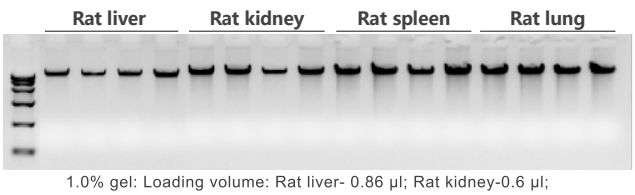


Figure 2. The mean yield of extracted RNA from 10 mg different animal tissues



Loading volume: 0.36 μl;1.0% gel



1.0% gel: Loading volume: Rat liver- 0.86 μl; Rat kidney-0.6 μl; Rat spleen-0.19 μl;Rat lung-0.19 μl

Ordering Information

Instruments

Product Name	Cat. No.	Picture
Automatic Nucleic Acids Extraction Instrument	VNP-32P	
Full-automatic Nucleic Acids Extraction Instrument	VNP-96P	

Extraction Kits

Product Name	Use with VNP-32P	Use with VNP-96P	Applicable sample
VAMNE Magnetic Cell/Tissue Total RNA Extraction Kit	RMA101-01/02	RMA102-01	Animal cells and tissues
VAMNE Magnetic Universal Total RNA Kit	ROA3302-01/02	ROA3303-01	Animal cells and tissues
FastPure Bacteria DNA Isolation Kit	DC112-C3/C5	DC112-C6	Animal cells, tissues, and bacteria
Magnetic Blood DNA Extraction Kit	DM102-01/02	-	Blood and buccal swab
VAMNE MagUltra FFPE DNA Extraction Kit	DM602-01	-	FFPE
VAMNE MagUltra Circulating Cell-free DNA Isolation Mini Kit	N904-C1	N904-C2	Serum, plasma
Virus DNA/RNA Extraction Kit 3.0	RM501-01/02/03	RM502-01	Blood,swab, and stool,etc
VAMNE Magnetic Pathogen DNA/RNA Kit	RM602-01	-	Blood,swab,and sputum,etc
VAMNE Stool/Soil DNA Extraction Kit	DMA5102-01/02	DMA5103-01	Stool and soil

Consumables

Product Name	Use with VNP-96P	Size
Magnetic Bar Sleeves (for VNP-32P)	RH201-C2	40 Sets (2 sleeves is 1 set)
96 Well Plate & Magnetic Bar Sleeves (For VNP-32P)	RM201-C3	48 Sets (1 plate and 2 sleeves is 1 set)
96 Well Plate & Magnetic Bar Sleeves (For VNP-96P)	RH201-C1	24 Sets (6 plates and 1 sleeve is 1 set)

Yamato Scientific America Inc.

+1 408-235-7725
customerservice@yamato-usa.com
www.yamato-usa.com
2040 Corporate Court, San Jose CA 95131
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Vazyme Biotech Co.,Ltd. (Stock Code 688105.SH)

+86 400-168-5000
support@vazyme.com
www.vazyme.com
Red Maple Hi-tech Industry Park, Nanjing, PRC
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