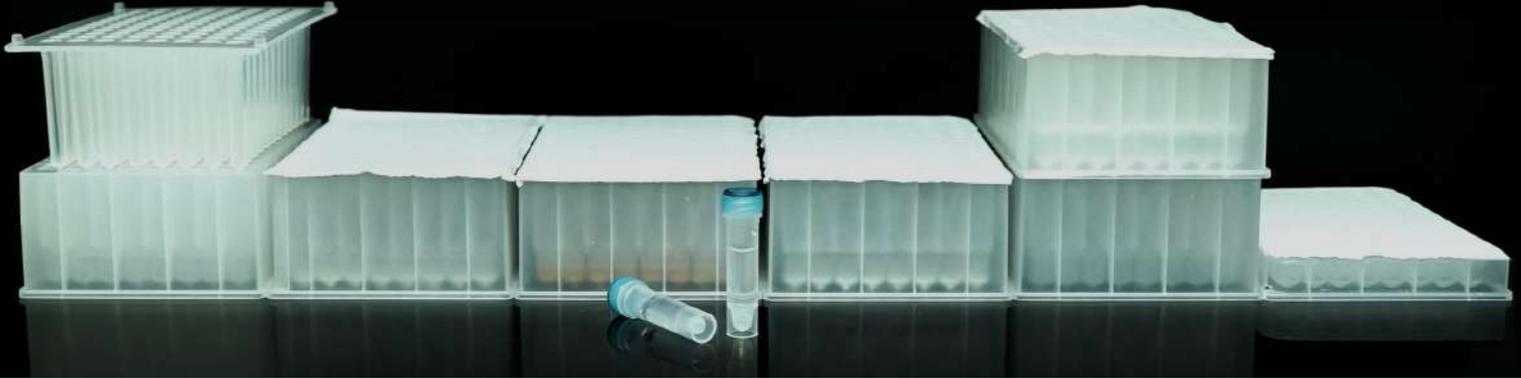


# NEST<sup>®</sup> MAGPURE<sup>™</sup> Nucleic Acid Extraction Kit

Cat.No.202301



## Product Application

The kit is composed of reagents for nucleic acid extraction (magnetic beads method), suitable for extracting genomic nucleic acid DNA and RNA of bacteria, viruses and parasites from samples. It is designed for 96-well plate automatic platforms to help dramatically improve the throughput of sample extraction.

## Principle of Extraction

The kit uses a unique magnetic bead and buffer system. The surface of the magnetic bead is modified with special chemical groups, which have extremely strong enrichment ability for DNA/RNA under certain conditions and can reversibly release DNA/RNA when the conditions are changed to rapidly separate and purify DNA/RNA and to remove impurities like proteins as far as possible. The extracted high-quality nucleic acids can be used for serial experiments like PCR, RT-PCR, gene sequencing, etc.

## Applicable Models



King Fisher Presto



King Fisher Flex

## List of Product Composition

Product name	Amount	Capacity	Components of Pre-filled Solution
96 Tip Combs	1 pcs	/	/
Sample Plate	1 pcs	500μL×96 wells	Guanidine salt, surfactant, EDTA, buffer, etc.
Magnetic Bead Plate	1 pcs	200μL×96 wells	Magnetic beads, buffer, etc.
Wash Plate I	1 pcs	500μL×96 wells	Guanidine salt, EDTA, etc.
Wash Plate II	2 pcs	500μL×96 wells	75% ethanol
Elution Plate	1 pcs	100μL×96 wells	TE buffer
Proteinase K	1 mL x 2 pcs	/	Proteinase K

## Product Advantages

### Transport at Ambient Temperature

The kit contains the proprietary “Proteinase K” that can be stored at ambient temperature, therefore the whole kit can be transported and stored at ambient temperature.

### Easy to Use

Sub-packed reagents, use directly after tearing the sealing film.

### Good Sealing

High-stickiness sealing film, to further prevent fluid leakage during transport.

### High Extraction

High Extraction Purity of Sample Nucleic Acid, Low Inter-lot Difference.

## Usage Procedure



Peel cover off plate

Add sample and Proteinase K

Load onto Instrument and run

Purified DNA ready for analysis

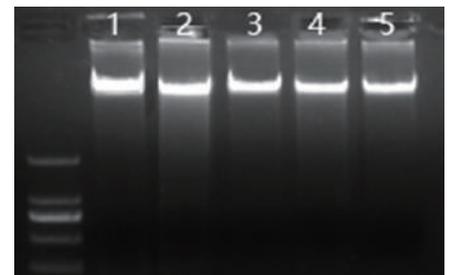
## Performance Parameter

Extraction purity	A260/280= 1.7-2.0, A260/230 >1.9
Yield of nucleic acid	>85%
Extraction time	around 45 min
Extracted number	96 samples for each run
Sample adding amount	100-300µL of the sample
Acceptable sample types	serum, plasma, cultured cells, saliva, alveolar lavage fluid, nasopharyngeal aspirate, swab samples, etc.

## Performance Verification

### 1 Validation of Nucleic Acid Extraction from Different Types of Samples

Sample No.	Sample Type	Sample Size	A260 / 280	A260 / 230	Nucleic Acid Yield (µg)
1	Nasopharyngeal aspirate	200 µl	1.84	1.95	4.2
2	Human serum	200 µl	1.84	2.03	1.8
3	Nasal swab	1 swab	1.87	2.19	2.3
4	Oral swab	1 swab	1.85	1.84	1.9
5	Saliva	200 µl	1.84	2.04	9.2

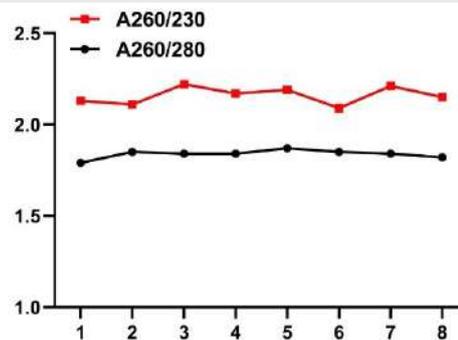
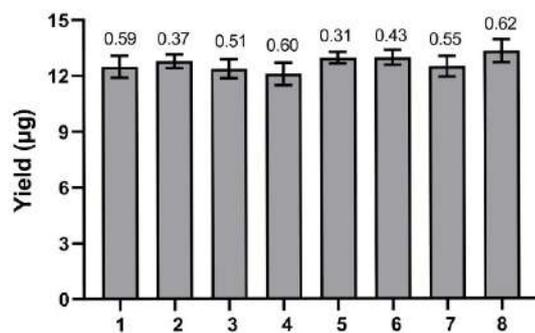


DNA/RNA Electropherogram of Different Sample Types

Note: the data in the table are obtained from testing the samples collected by our company's labs, which cannot represent the yield of all samples of the sample type and are only for reference.

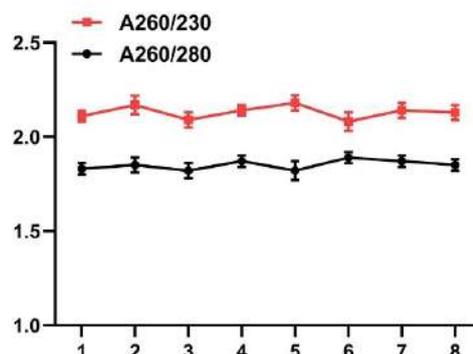
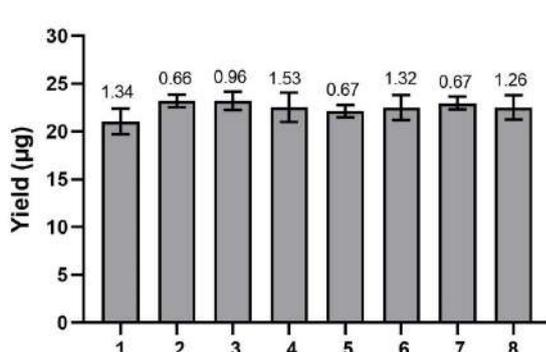
### 2 Validation of Repeatability

Same batch of products for the yield and purification data of DNA/RNA extraction from the same sample, A260/280 within 1.7-1.9, A260/230 > 1.9



### 3 Validation of Inter-lot Difference

Different batch of products for the yield and purification data of DNA/RNA extraction from the same sample, A260/280 within 1.7-1.9, A260/230 > 1.9



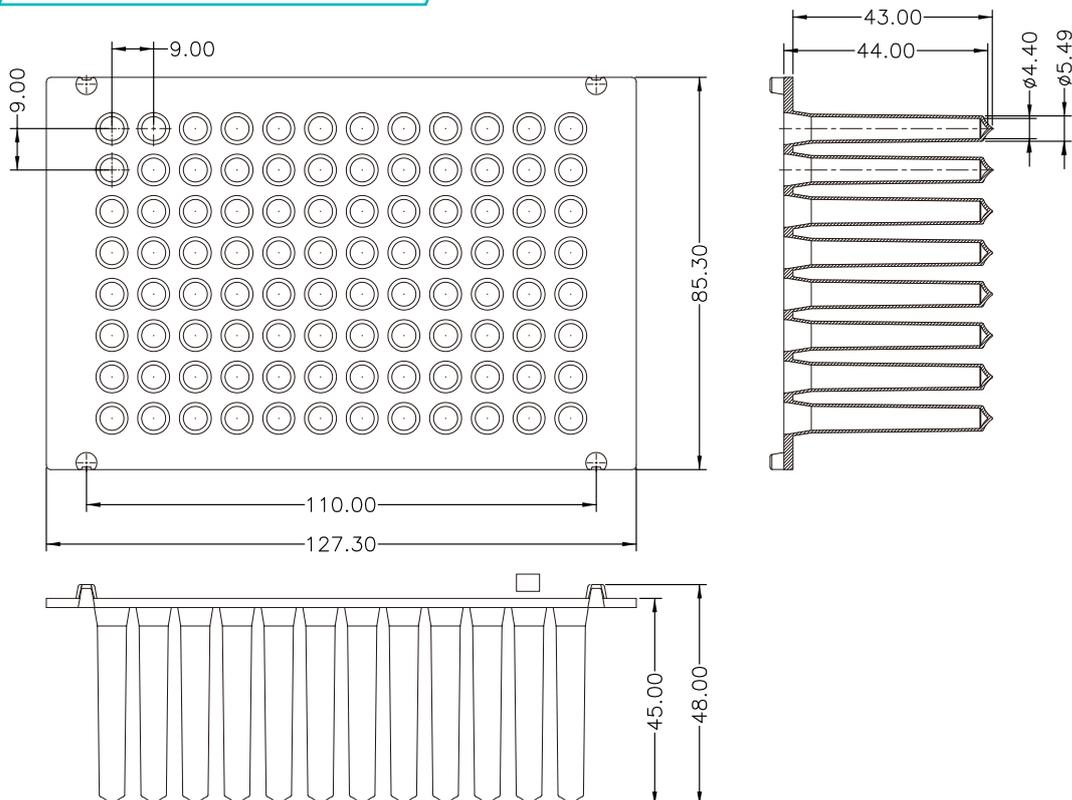
## Consumables can be purchased separately

USP VI Polypropylene material  
 High chemical stability  
 Non-pyrogenic, DNase/RNase free

Cat.No.	Product Description	/Pk	/Cs
503621	NEST MagPure™ 2.2 mL 96-Well Deep Well Plate, V-Bottom, Square Well, Compatible with Kingfisher Flex&Presto, Sterile	5	50
500621	NEST MagPure™ 0.5 mL 96-Well Deep Well Plate, V-Bottom, Square Well, Compatible with Kingfisher Flex&Presto, Sterile	5	50
503361	NEST MagPure™ 96 Tip Combs for Magnetic Applications, Compatible with Kingfisher Flex&Presto, Sterile	5	50

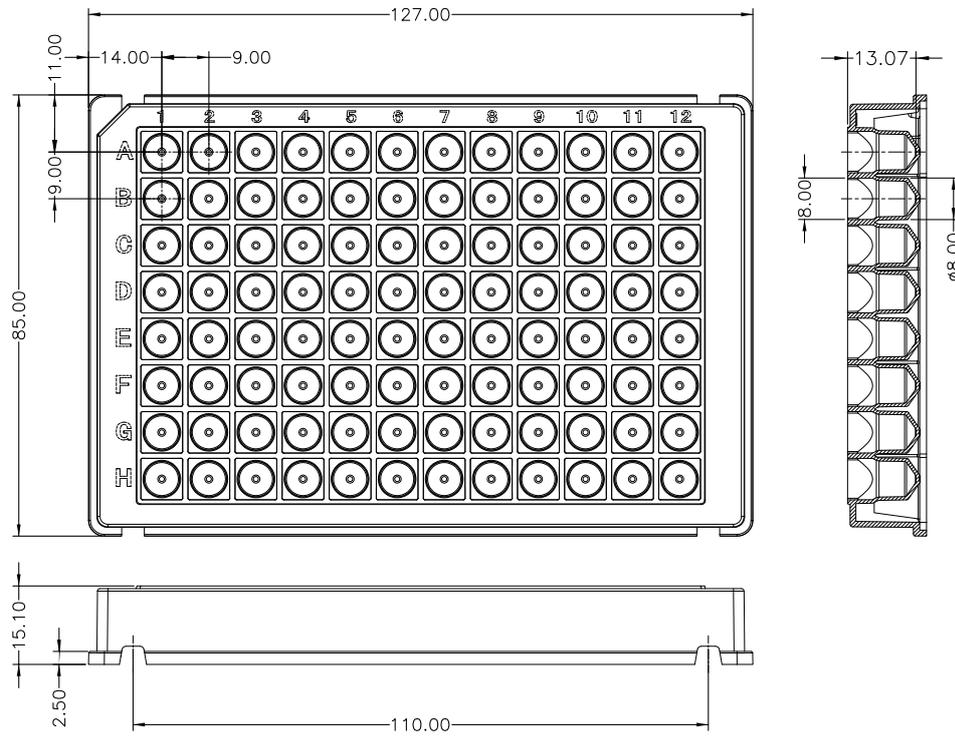
## Technical Drawing

### 1 96 Tip Combs



2

0.5 mL 96-Deep Well Plate



Technical Drawing

3

2.2mL 96-Deep Well Plate

