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Nucleic Acid (Throughput-96) Automatic Extraction System



Nucleic Acid Automatic Extraction System (Throughput-96)

Product introduction: With the latest isolation method of nucleic acid transferred by magnetic rods and preloaded magnetic beads-based extraction reagent, The YC796 Nucleic Acid Automatic Extraction System can process 1-96 samples and automatically isolate nucleic acids from various samples such as blood, cells, viruses, etc. The magnetic beads are adsorbed, transferred and released by the special magnetic rod, so as to realize the fully automated purification of nucleic acid.

【Product Features】



Strong magnetic force

5500 Gauss magnetic rod ensure magnetic beads recovery rate $\geq 98\%$



Programming

In addition to programed protocols, support customers to create and edit protocols to meet the diverse needs



Small size

It can be placed in a common biological safety cabinet



Precise temperature control

Automatic heating for lysis and elution, with fast heating speed and precise temperature control



Avoid cross contamination

Intelligent magnetic rod motion control system and UV sterilization module effectively reduce the cross contamination between wells



Door opening protection

The program automatically pauses when opening the door in the working state, and automatically continues after closing



Open system

Applicable to various magnetic beads-based extraction reagents



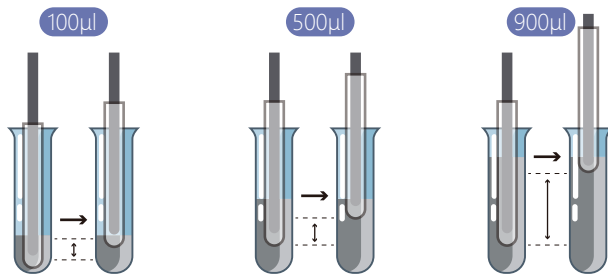
Short operating time

Complete the nucleic acid extraction of 96 samples within 30 minutes

Nucleic Acid Automatic Extraction System (Throughput-96)

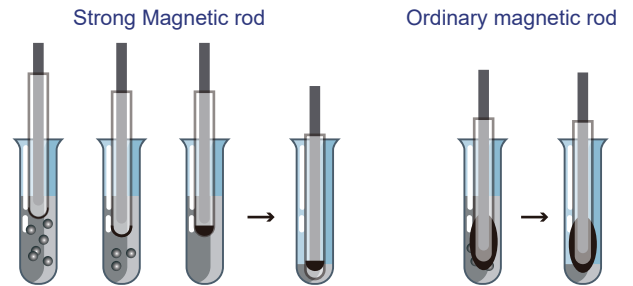
[Unique Magnetic Rod Movement]

The driving device is equipped with a high-performance stepping motor, with large magnetic rod vibration amplitude. The vibration amplitude can be set according to the volume of the solution to ensure good and even blending effect. The actuator is made of ball screw to ensure that the rod runs smoothly, has high precision and long service life. Each moving component is protected by the limit position protection mechanism to avoid instrument failure.

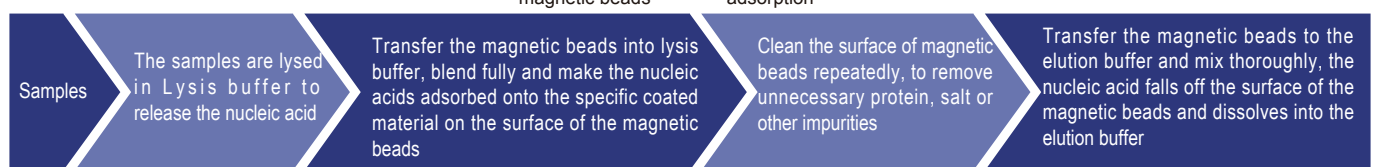
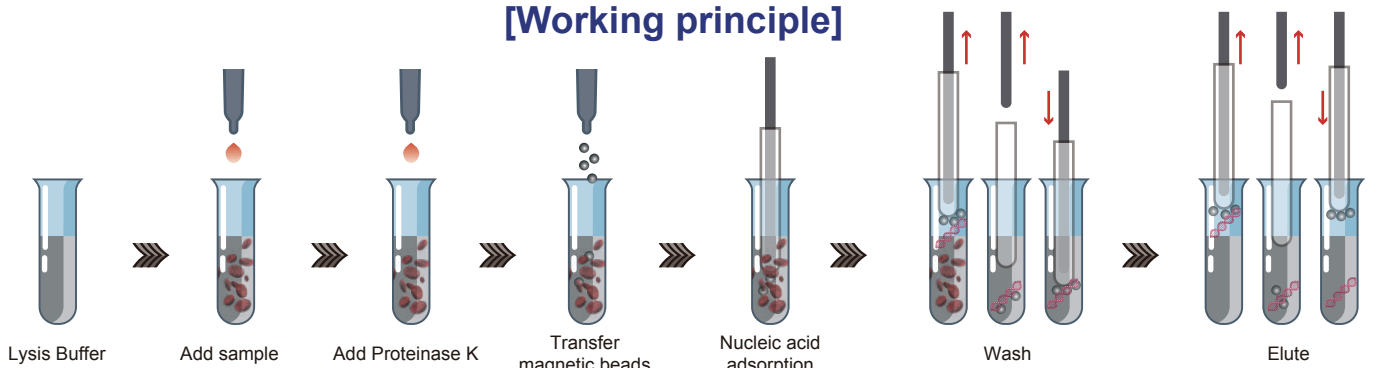


[New Strong Magnetic rod]

With the newly designed strong magnetic rod, the magnetic beads are absorbed on the head of the magnetic rod, so as to ensure that the elution buffer can still cover all the magnetic beads even with a small elution volume. The high recovery of magnetic beads ensures high yield of nucleic acid.



[Working principle]



[Instrument parameters]

Product name	Nucleic Acid Automatic Extraction System
Model	YC796
Certification	CE/ RoHS
Extraction channel	1-96
Consumables	96 well plate + Tip comb
Nucleic acid extraction time	15-35 minutes
Temperature control precision	0.5°C
Temperature control accuracy	±1.5°C
Temperature uniformity	±1.0°C

Heating range	Ambient temperature ~95°C
Nucleic acid extraction purity	1.8≤OD260/OD280≤2.0
Inter-well purification variation	CV<3%
Magnetic beads recovery	≥98%
Touch screen size	7 inch color touch screen
Disinfection/decontamination method	UV
Input power	AC 100-240V~, 3.4A, 50Hz
Product weight	52±1kg
Product size	743mm*465mm*447mm

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【Kits and reagents】



The kit is suitable for TECHSTAR YC769 Nucleic Acid Automatic Extraction System for extracting genomic DNA/RNA of pathogenic microorganisms from samples such as serum, plasma, cultured cells, saliva, alveolar lavage fluid, nasopharyngeal aspirates and swabs.

【Product name】

Magnetic Bead-Based Nucleic Acid (DNA/RNA) Extraction Kit

【Product No.】 SC905

【Packing specification】 96 T/Kit

【Transportation condition】 Room temperature

【Preservation condition】

Room temperature, or 2-8℃ for long-term preservation

【Period of validity】 12 months

【Applicable instrument】

TECHSTAR YC796 Nucleic Acid Automatic Extraction System

【Features】

Reliable stability

Unique "Protease K" stable at room temperature, the complete kit does not need to be stored at low temperature.

High binding

Magnetic beads optimized for pathogenic microbial genomes have excellent adsorption effects on small nucleic acids.

Strong sealing

High-viscosity sealing film prevents liquid leakage during transportation.

High sensitivity

With strong reproducibility and high purity, it can recover trace amounts of pathogenic microorganism DNA/RNA.

【Operation procedures】



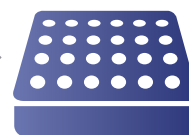
Tear off the sealing film



Add sample and Proteinase K



Loading to the instrument



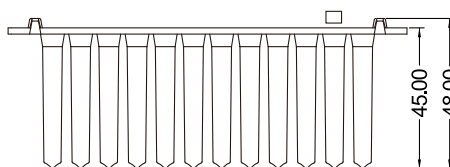
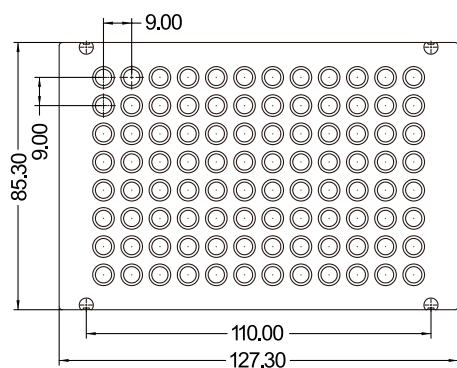
Nucleic acid extraction

Nucleic Acid Automatic Extraction System (Throughput-96)

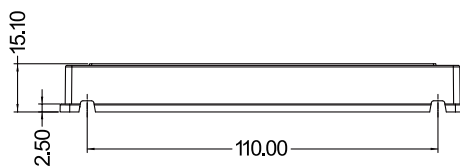
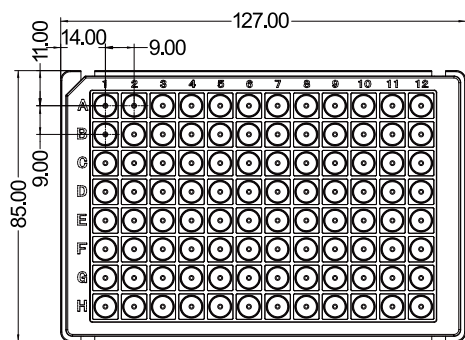
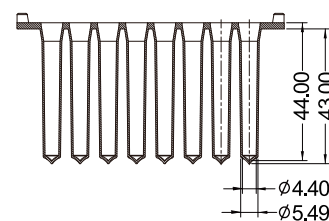
【Product components】

Name	Quantity	Capacity	Components
Tip comb	1	/	/
Sample plate	1	500 μ L \times 96	Guanidine Hydrochloride, TritonX-100, EDTA, etc.
Beads plate	1	200 μ L \times 96	Magnetic beads
Wash 1 plate	1	600 μ L \times 96	Guanidine Hydrochloride, EDTA, etc.
Wash 2 plate	2	600 μ L \times 96	75% ethanol
Elution plate	1	100 μ L \times 96	TE buffer
Protease K	1mL x 2	/	Protease K

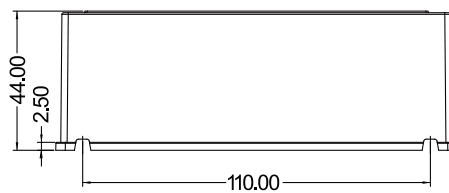
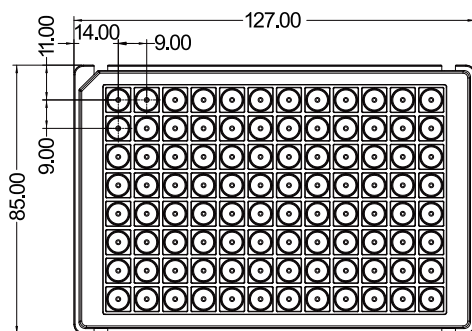
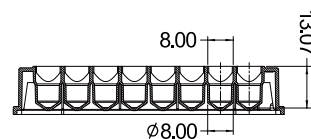
【Dimensions】



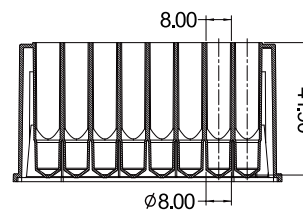
Tip comb



96 standard plate



96 deep-well plate



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