

# Auto-Pure 4800

## Nucleic Acid Purification System



### Product Introduction

Auto-Pure 4800 is a high-throughput automatic nucleic acid extraction equipment, based on the magnetic bead method to extract nucleic acid. The steps of pipetting, lysis, washing, elution and PCR system construction can be automatically completed in the workstation, one-stop operation without manual intervention. The maximum reaction system is 1 mL. It can extract 48×1 mL sample system at the same time. Compared with manual extraction, it is more efficient and convenient. At the same time, the standardized and automated operation steps avoid human error, and the experimental results are more reliable and repeatable.

#### Automated Extraction + PCR Setup:

Reagent  
transfer

Sample  
transfer

Nucleic acid  
extraction

PCR setup

### 01

#### Fast & Flexible Experiment



1. Time for the extraction: 48 samples - 15 ~ 30 min (depending on different reagents)  
Time for the pipette sample: 48 samples - 13 min
2. Bottled or prefilled reagents can be selected for extraction according to actual needs

### 02

#### Effective Cross-Contamination Prevention



1. Negative pressure filter system to prevent aerosol contamination
2. Full coverage UV sterilization, exhaustive to clean the worktable

### 03

#### High-Precision Liquid Handling

1. 1+2 pipettors combination with pressure detection technology
2. Detailed pipetting parameter settings for different liquids can effectively improve the accuracy

### 04

#### Vortex Magnetic Beads and PCR Reagent Block

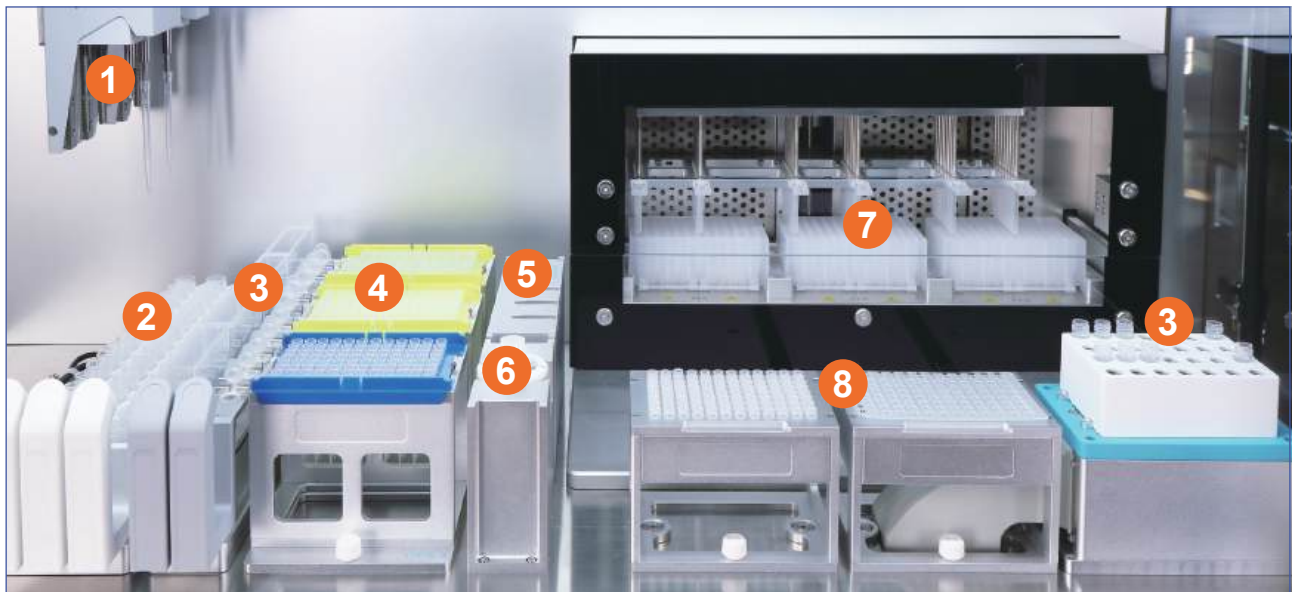
1. Specially designed for magnetic beads, the vortex is stable which improves the efficiency of the experiment
2. The PCR reagent block can be customized according to customer needs

### 05

#### Graphical User Interface, Simple and Easy to Operate



## Plate Layout



- 1 Pipetting Arm** ----- 3-channel pipetting arm, 2×1000  $\mu$ L pipettors, 1×200  $\mu$ L pipettor
- 2 Samples Area** ----- The 48 test tube rack can hold different consumables such as sample tubes, test tubes and centrifuge tubes. And it is equipped with a barcode scanner.
- 3 Reagents Area** ----- Two areas: nucleic acid extraction reagent and PCR reagents
- 4 Tips Area** ----- 2×1000  $\mu$ L and 1×200  $\mu$ L tip racks
- 5 Waste Area** ----- Used tips will be disposed into the waste container, which can intelligently calculate whether the tips are full and increase the storage space
- 6 Vortex Magnetic-beads** ----- Specially designed for magnetic beads, the vortexing is stable which improves the efficiency of the experiment
- 7 Nucleic Acid Extraction Area** ----- Can extract 48 samples at the same time. Built-in heating incubator temp. range up to 120  $^{\circ}$ C, which can process the sample lysis and nucleic acid elution
- 8 PCR Setup Area** ----- 2 x 96 PCR plates or 24 x 8 strip PCR tubes

## Specification

<b>Model</b>	<b>Auto-Pure 4800</b>
Function	Automatic pipette samples, extract nucleic acid and setup PCR systems
Information management	Support external USB scanner, barcode scanning function, automatic scanning function
Pipetting principle	Air displacement pipetting technology
Pipettor	Two 1000 $\mu$ L pipettors and one 200 $\mu$ L pipettor
Pipetting range ( $\mu$ L)	1 - 1000 $\mu$ L
Tips	Allsheng tips, and other tips compatible with this instrument
Liquid detection	Pressure detection: liquid level detection, tip clogging detection and residual liquid detection
Samples per run	1 - 48
Process volume	50 - 1000 $\mu$ L
Extraction uniformity	CV $\leq$ 5 %
Single sample consumables	Support
Heating temperature	Elution and lysis temperature control: RT. $\sim$ 120 $^{\circ}$ C
Cooling block	0 $^{\circ}$ C $\sim$ 105 $^{\circ}$ C (optional)
UV sterilization	Separate UV lamp: extraction area, pipetting area and waste container area
Fan filter	Equipped with three HEPA filters
Instrument port	USB port
Power supply	220 V, 8 A, 50 / 60 Hz
Power	Standby 30 W, maximum 550 W
Noise	$\leq$ 60 dB
Net weight	130 kg

## Pipetting Accuracy

Pipettor	200 $\mu$ L	1000 $\mu$ L
Pipetting range	1 - 200 $\mu$ L	5 - 1000 $\mu$ L
Accuracy (A)	1 $\mu$ L: $\pm$ 12 % 20 $\mu$ L: $\pm$ 3 % 100 $\mu$ L: $\pm$ 1 % 200 $\mu$ L: $\pm$ 1 %	5 $\mu$ L: $\pm$ 5 % 100 $\mu$ L: $\pm$ 2 % 500 $\mu$ L: $\pm$ 1 % 1000 $\mu$ L: $\pm$ 1 %
Precision (CV)	1 $\mu$ L: $\leq$ 8 % 20 $\mu$ L: $\leq$ 1.5 % 100 $\mu$ L: $\leq$ 0.8 % 200 $\mu$ L: $\leq$ 0.5 %	5 $\mu$ L: $\leq$ 2.5 % 100 $\mu$ L: $\leq$ 1.25 % 500 $\mu$ L: $\leq$ 0.4 % 1000 $\mu$ L: $\leq$ 0.4 %

## Ordering Information

<b>Code</b>	<b>Product Description</b>
AS-17210-00	Auto-Pure 4800
RS-HSCF0101	Nucleic acid extraction or purification reagents (1 mL) Specification: 10 T, 24 T, 50 T, 100 T