

Auto-Pure 4800 Nucleic Acid Purification System

Auto-Pure 4800 automatic nucleic acid extraction system is a 48-through-put automatic nucleic acid extraction instrument, based on the magnetic bead method to extract nucleic acids. During the purification process, the steps of pipetting, lysis, washing, elution, and PCR system set-up can be done automatically in the workstation. One-stop operation, without manual intervention, can extract 48 x 1mL samples at the same time, which is more efficient and convenient than manual and semi-automatic extraction. At the same time, standardized and automated operation steps avoid human error, the experimental results are more reliable and repeatable. 3pcs UV lamps sterilization and negative pressure filtration system effectively prevent cross-contamination. As an efficient smart workstation, Auto-Pure 4800 can bring you a better product experience.



Features:

* 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

Time for PCR set-up: 48 samples - 10min

2. Bottled or prefilled reagents can be selected for extraction according to actual needs

3. Modular design of the work-table. And it can be customized for the layout of different forms

* High-precision liquid handling

1. 1+2 pipettors combination can meet various needs of sample, extraction reagent and PCR reagent

2. The pipettor's pressure detection technology cannot only detect the height of the liquid level, but also empty suction, residual liquid volume and blockage detection

3. Detailed pipetting parameter settings for different liquids can effectively improve the accuracy

* Effective cross-contamination prevention

1. Air displacement pipetting principle to avoid liquid contamination

2. Anti-hanging drop technology to avoid dropping contamination

3. Negative pressure filter system to prevent aerosol contamination

4. Full coverage UV sterilization, exhaustive to clean the work-table

* Easy-to-learn operating software

1. Graphical user interface, program editing can be completed without complicated operations

2. Built-in comprehensive libraries of consumable carriers, and liquids to reduce customer program matching time

3. Users can simply select according to their needs to complete the whole process of liquid handling, extraction, and PCR / qPCR set-up

* Open and reliable nucleic acid extraction system

1. Open software designing, it can be suitable for matching most of the magnetic-beads based on extraction reagents

2. Various magnetic absorption methods can effectively solve problems of residual magnetic beads

* 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 pre-cooled in the refrigerator before working

3. The PCR reagent block can be customized according to customer needs



Technical Specifications:

Parameter/Model	Auto-Pure 4800		
Function	Automatic pipette samples and reagents, extract nucleic acid and set-up PCR systems	Heating temperature	Elution temperature control: RT+5 °C~120 °C Lysis temperature control: RT+5 °C~120 °C
Information management	Support external USB scanner, barcode scanning function, automatic scanning function	Cooling module	4 °C~100 °C (Optional)
Pipetting principle	Air displacement pipetting technology	UV sterilization	Separate UV lamp: extraction area, pipetting area and waste container area
Pipettor	Two 1000µL pipettors and one 200µL pipettor	Instrument port	USB port
Pipetting range (µL)	1~1000	Power supply	100-240V ±10%, 50-60Hz ±5%
Tips	Tips, and other tips compatible with this instrument	Magnetic rods	48
Liquid detection	Pressure detection: liquid level detection, tip clogging detection and residual liquid detection	Power	Maximum 450W
Samples per run	1~48	Computer system	Win10
Elution volume (µL)	40~200	Operating humidity	20%~90%
Extraction uniformity	CV ≤5%	Size (W x D x H) mm	1090x700x724