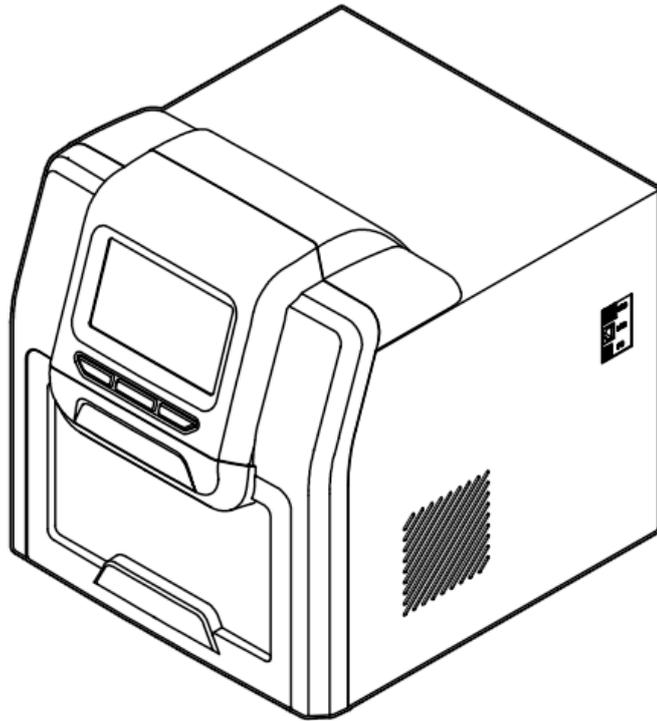


Operation Manual

V4.0

Auto-Pure Series Nucleic Acid Purification System



ALLSHENG

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Chapter 1 Brief Introduction

Auto-Pure series Nucleic Acid Purification System use the magnetic rod to adsorb, transfer and release magnetic particles to transfer the operating sample and in this way to purify DNA/RNA, protein and cell etc. The Purification system able to handle 1-20,1~24,1~32 or 1-48 samples simultaneously with special reagent kit or 96 well reaction plate, and when using the different reagent, would be able to extract DNA/RNA from animal or plant tissue, blood and body fluid etc.

Features

- Friendly interface with easy operation
- Touch screen with 3 shortcut key or mouse operation
- Heating function in Lysis and elution
- UV sterilization
- Quiet operation without vibration
- One stop operation to avoid contamination
- Rapid extraction:10~60 minutes/time
- Premium magnetic particles leads to high yield
- Extendable Ethernet remote control and WiFi
- Extendable APP software for mobile phone and PAD w/android system

Chapter 2 Specification

1. Normal operating conditions

Environmental Temperature: 10°C~35°C

Relative Humidity ≤70%

Input: AC 100~240V, 50Hz/60Hz

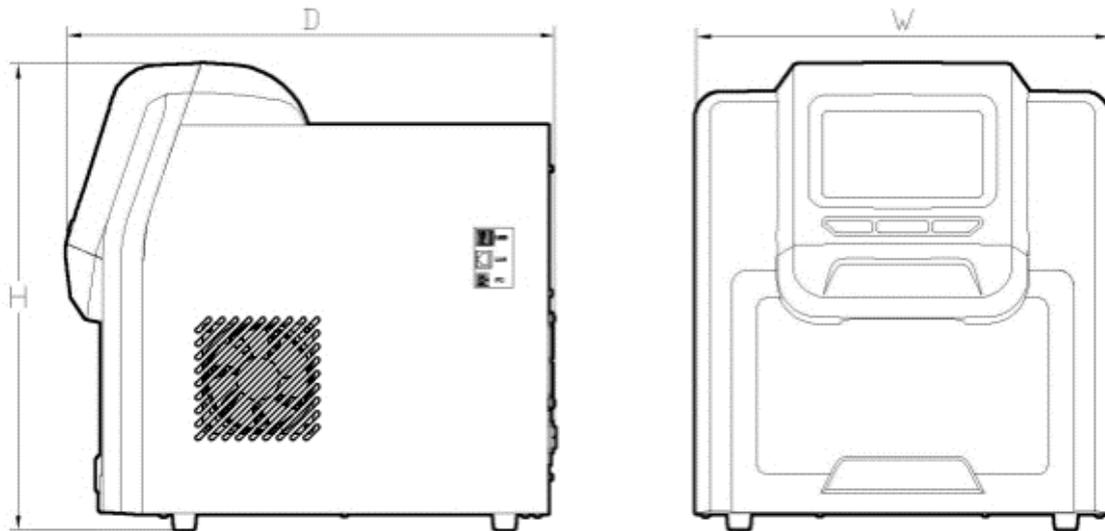
2. Basic parameter & Performance

Table 1 Basic parameter & Performance

Model Parameter	Auto-Pure 32A	Auto-Pure 48A	Auto-Pure 20A	Auto-Pure 20B	Auto-Pure 24D	Auto-Pure 24BT
Principle	Magnetic Particle Method					
Throughput	1~32	1~48	1~20	1~20	1~24	1~24
Kits	96 Deep-well plate	96 Deep-well plate	2ml Kits	5ml Kits	10ml Kits+ 2ml tubes	5ml Kits+ 2ml tubes
Sample Volume/μL	50~1000	50~1000	50~3000	50~5000	50~10000	50~5000
Stability	CV≤5%					
Lysis temp.	Ambient temperature ~120°C					
Elution temp.	Ambient temperature ~120°C					
Heating time	Heating time (Ambient temperature ~120°C) ≤4 minutes					
Temperature Accuracy	±1°C					
Operation interface	7-inch touch screen, 3 shortcut buttons and mouse is available					
Built-in protocol	8 groups of preset protocols, 100 groups of protocols can be stored					
Protocol management	New, Edit, Delete, Save as					
Expansion interface	Standard USB, ethernet port and WIFI are available					
Network	Extensible Ethernet remote control, WiFi, 4G network					
Pollution control	UV light					
Exhaust way	By Fan					
Data storage	Available, with built-in SD card					
Max.input power	450W					

Dimension (W×D×H)	400mm×470mm×450mm	400mm×520mm×450mm
Weight (kg)	28kg	30kg

3. Overall Dimension



Dimension (W×D×H)

Auto-Pure 32A: 400mm×470mm×450mm

Auto-Pure 48A: 400mm×470mm×450mm

Auto-Pure 20A: 400mm×520mm×450mm

Auto-Pure 20B: 400mm×520mm×450mm

Auto-Pure 24D: 400mm×520mm×450mm

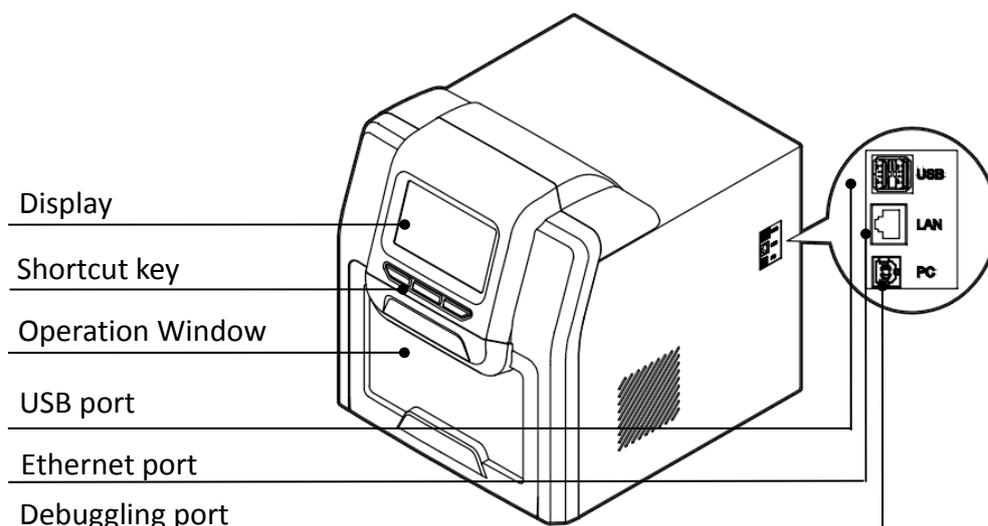
Auto-Pure 24BT: 400mm×520mm×450mm

Chapter 3 Product Introduction

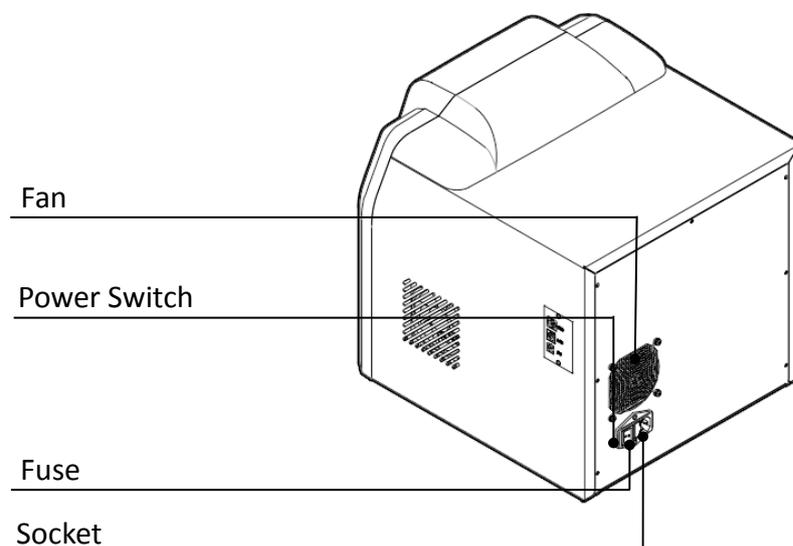
This chapter basically introduce the instrument structure, operation buttons, display panel as well as the preparations before operate. For the first time user, please make sure to read this chapter before start.

1. Structure

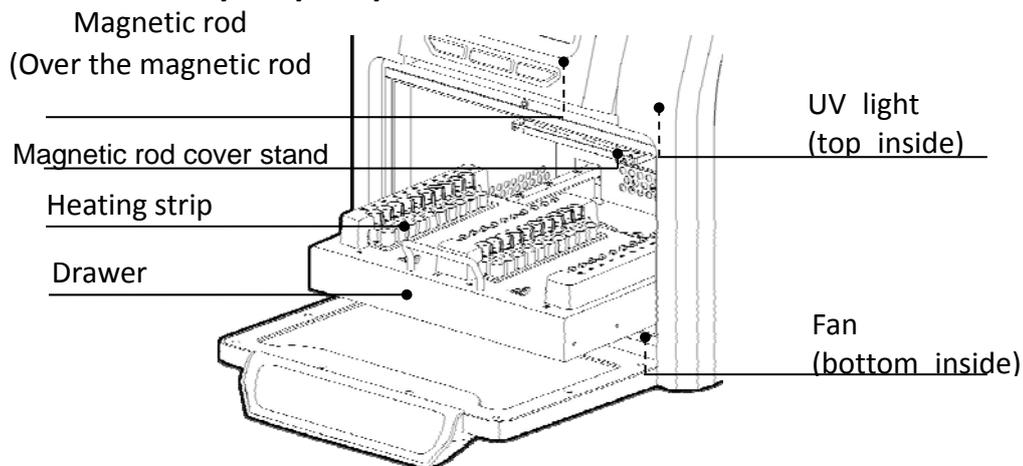
1.1. Front



1.2. Back

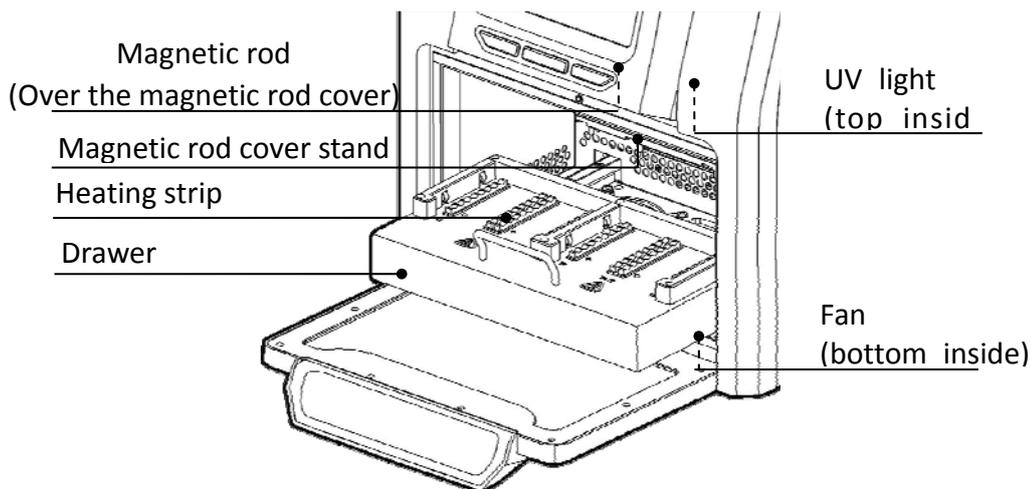


1.3. Auto-Pure 20A/20B/24D/24BT Inside view



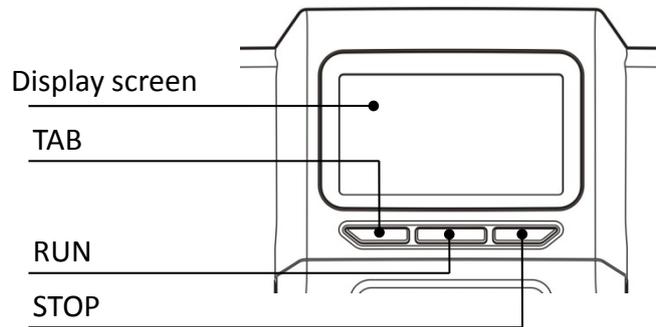
Note: The only difference between the experiment module of above products is the shape of the heating strip.

1.4. Auto-Pure 32A/48A Inside view



Note: The only difference between the experiment module of above products is the shape of the heating strip.

2. Operation panel



Display screen: Operate by touch screen or mouse which connect with USB port

TAB: Select for the shortcut program

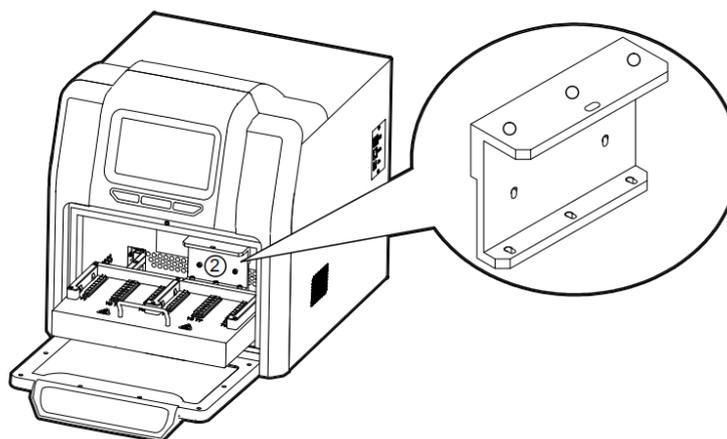
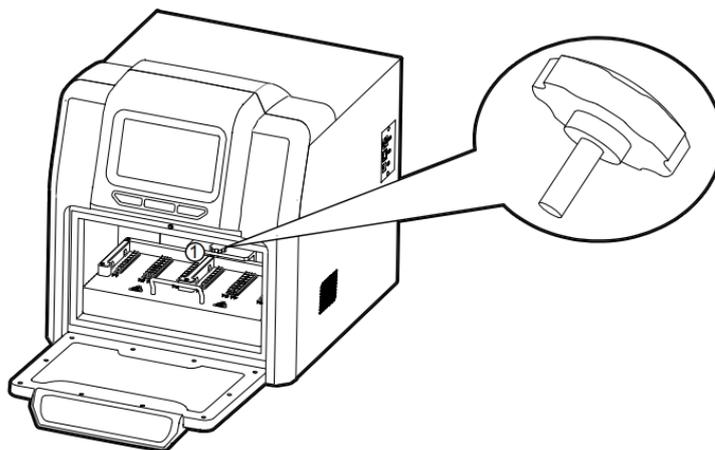
RUN: Run for the shortcut program

STOP: Stop operating

Chapter 4 Operation

1. Preparation

Take out the instrument from packing carton and tear off the tape on the edge of operation window, then open it and take out the foam. First please screw out the fixed screw of position ① as below .Second please screw out the screw of position ② then you can take out the baffle and release the moving component.



Note: Be careful in operating or the magnetic rod will be broken.

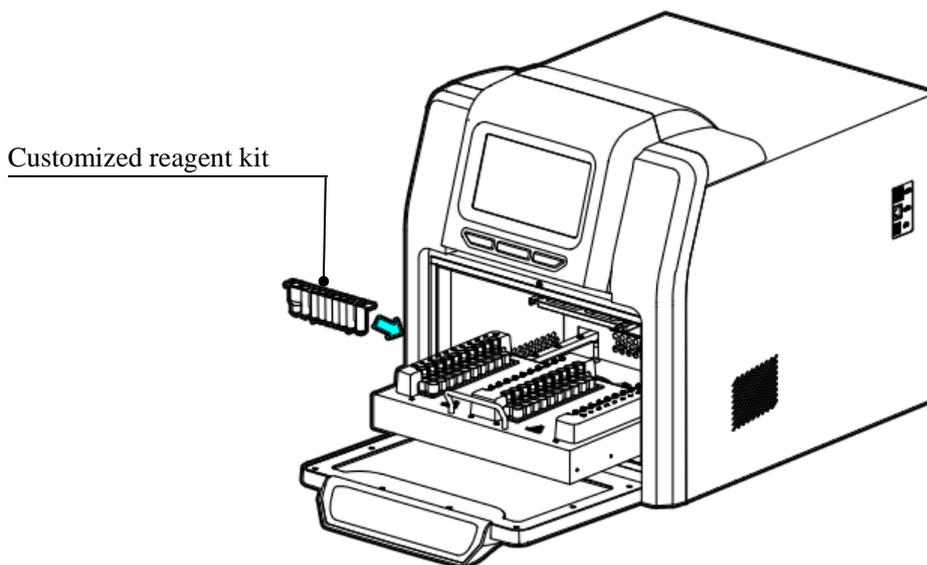
2. Connect the power

Connect one end of power cord to the instrument socket and the other to power (AC100~240V), then turn on the power switch.

3. Install the reagent kit

3.1 Install the customized reagent kit for Auto-Pure 20A & Auto-Pure 20B.

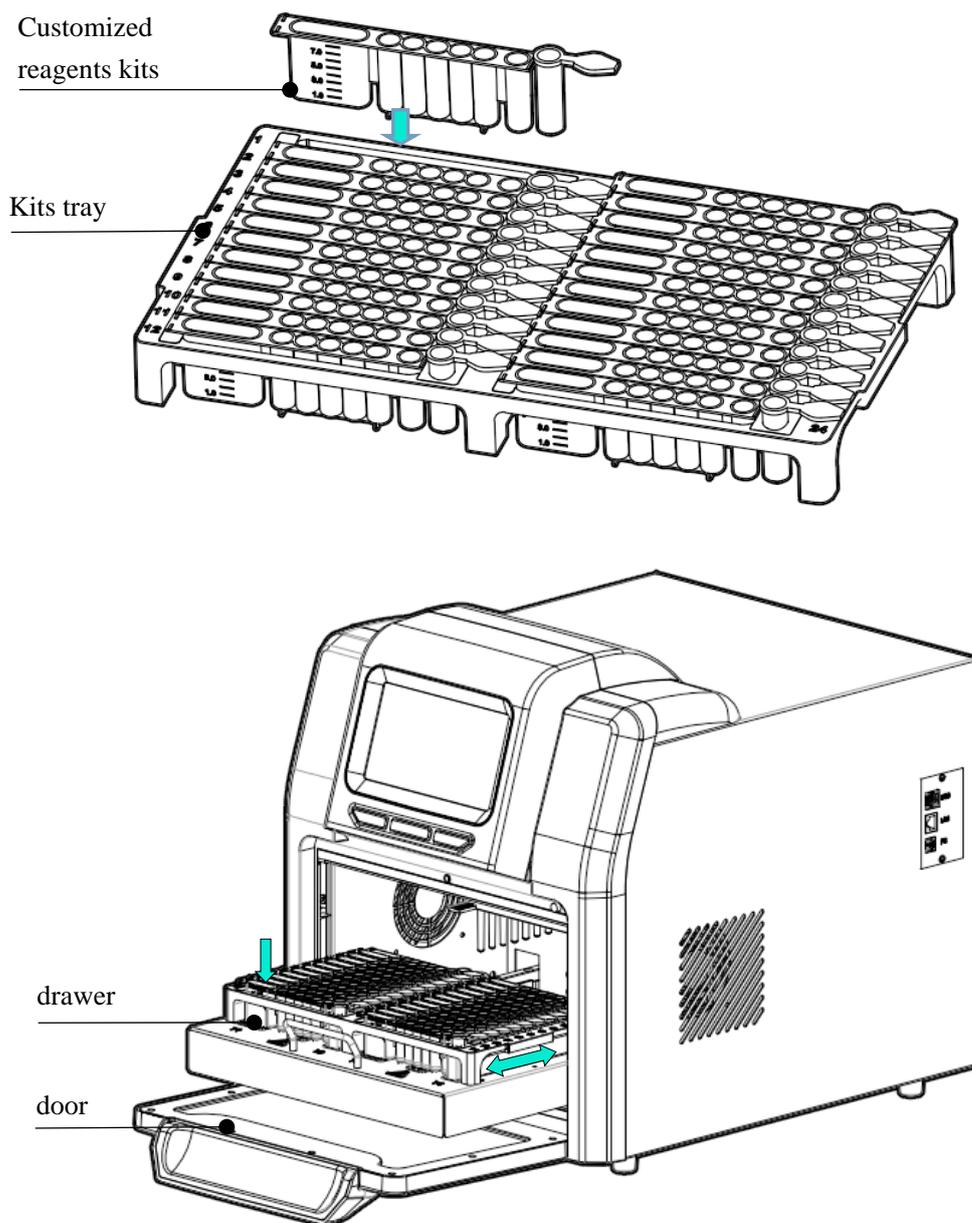
Open the drawer and mount the customized reagent kit on the heating strip, make sure the sample well marked with 1 should be on the left side, then push back the drawer slowly.



Note: The shape of customized reagent kit of above products is different, while the installation is the same.

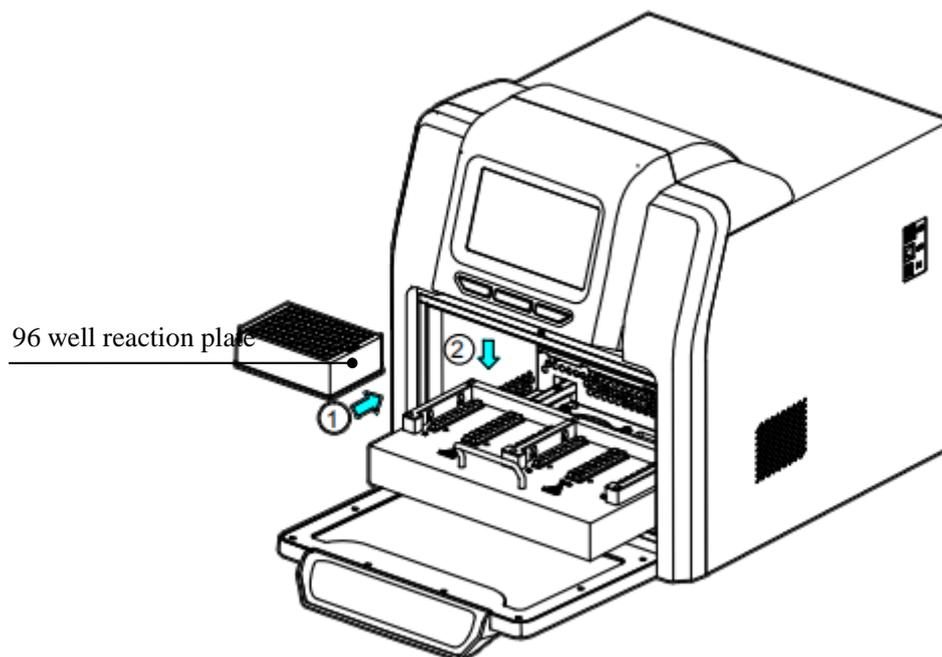
3.2 Install the customized reagent kit for Auto-Pure 24D/24BT

Open the drawer and place the kits with sample on the kits tray, then put the kits tray to the drawer and press the kits with hand to make sure the kits fits the heating strip well , then push back the drawer slowly and close the door.



3.3 Install the 96 well reaction plate on Auto-Pure 32A.

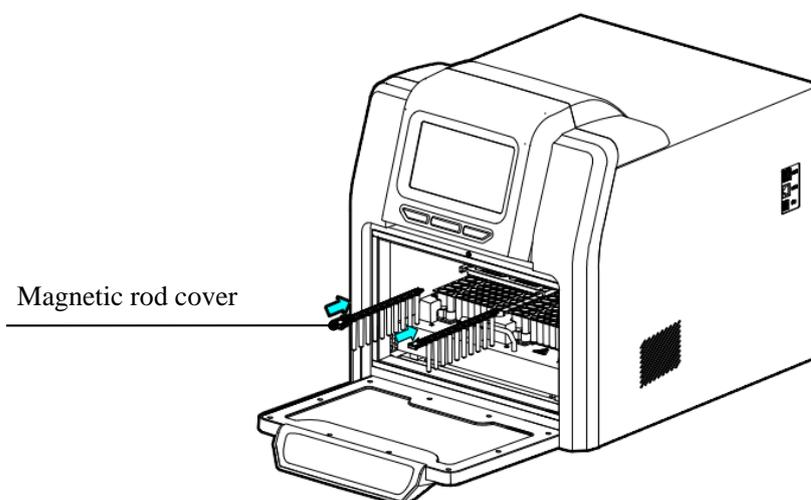
Take out the drawer and put the 96 well reaction plate which already filled with samples mounted on the locating slot, make sure the plate with chamfering should be on the left side, then push back the drawer slowly.



4. Install the magnetic rod cover

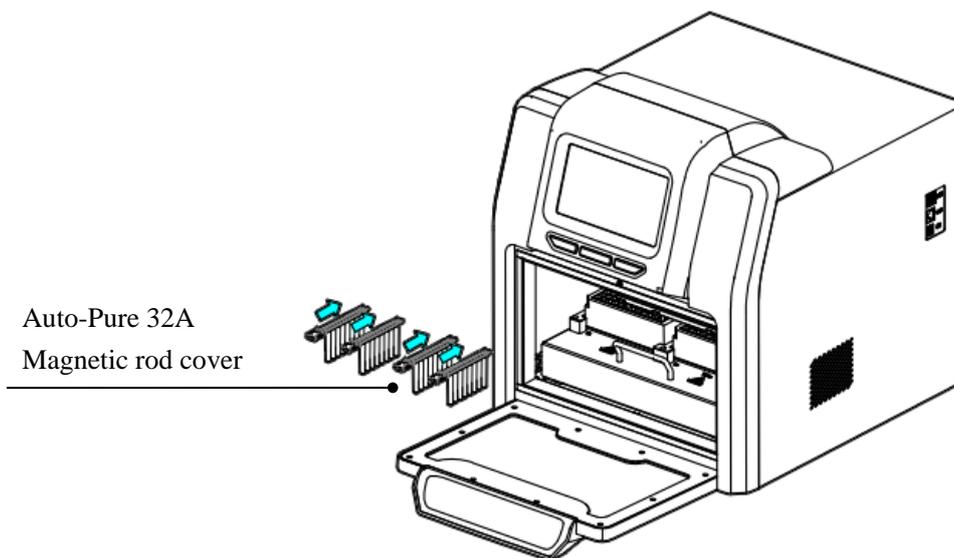
4.1 Install the magnetic rod cover for 20A/20B/24D/24BT

Insert the magnetic rod cover completely on the mounting groove, and the installation quantity depends on the reagent kit number.



4.2 Install the magnetic rod cover for Auto-Pure 32A/48A

Insert the magnetic rod cover completely on the mounting groove, and the installation quantity depends on the reagent kit number.



Note: Magnetic rod cover for Auto-Pure32A at most is 4pcs, for Auto-Pure at most is 6pcs.The installation method is same.

5. Remove magnetic rod cover

Press the button and take out the magnetic rod cover as per below photo.

