

UB-DC48

Automated Sample Preparation System

UB-DC48 directly loads samples from collection tubes with caps. The excellent functions of auto uncap and cap, pipetting, barcode scanning, and PCR system establishment realize automation of nucleic acid sample preparation with full process monitoring.



Main Feature:

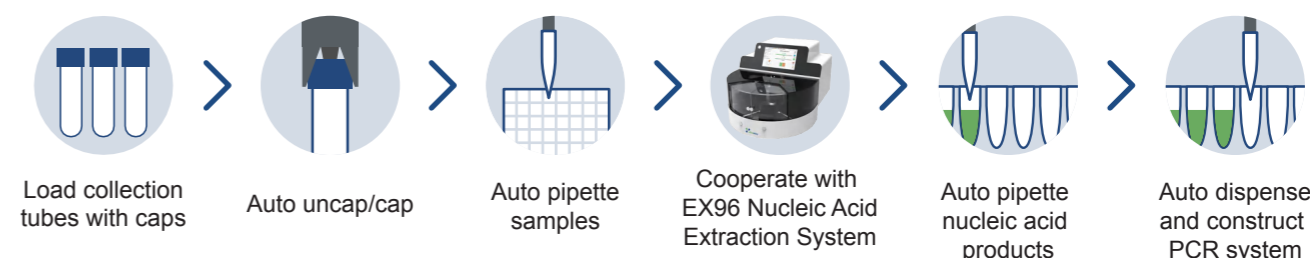
- Fully automatic sample preparation start from loading sample tubes with caps. Construct
- PCR system after nucleic acid purification;
- Automatically add Proteinase k, internal standard, etc;
- Auto scan barcode to obtain sample information and connected to network;
- The pipette detects and follow the liquid level with multiple pipette modes;
- Program controls the risk of error and omission. Full process monitoring prevent deviance.

Compatibility:

- Adapt multiple collection tubes of 1, 3, 5, and 10 mL;
- Support dispensing in deep well plates used for 16 or 96 tests;
- Match common nucleic acid extraction systems of 32, 48, and 96 channels.

Safety

- Directional exhaust and HEPA filter create negative pressure, so no external biological safety cabinet needed. Drip tray prevents pollution from accident drip;
- The built-in UV lights in the experimental and waste cabin disinfect regularly;
- Uncap collection tubes one by one to prevent cross contamination.



Technical Specification

Model	UB-DC48
Function	Auto uncap and cap, scan barcode, solution pipetting and dispensing
Throughput	1~48
CV Value	Below 15ul: CV≤ 3%, 15ul ~ 50ul: CV≤1.5%, Above 50ul: CV≤1%
Pipetting Volume	5uL~1000uL
Pipetting Channel	1 Channel
Pipetting System	Liquid level detection and following by air pressure, alarm when detect invalid aspiration and clogged needle
Collection Tubes	Adapt multiple size of 1, 3, 5, and 10 mL, support common vacuum blood collection tubes
Anti-Pollution	Directional exhaust and HEPA filter, built-in UV lamp, drip tray
Pipette Tips	96*2pcs 1000ul tips or 96pcs 1000ul and 96pcs 50ul tips
PCR Tubes	12pcs PCR 8-strip tube, compatible with 0.1 ml and 0.2ml, or 1pc PCR 96-well plate
Abnormal Alarm	Alarm reminds insufficient of reagents and consumables, supports addition midway
Program Setting	Free edition and large memory to store a variety of programs
Interface & Software	10.1" touch screen, Win10 in Chinese and English, monitor all the processes of pipetting and dispensing
Power Supply	AC 100-240V, 50/60Hz, 300VA
Dimensions	540mm x 740mm x 670mm
Weight	80kg