

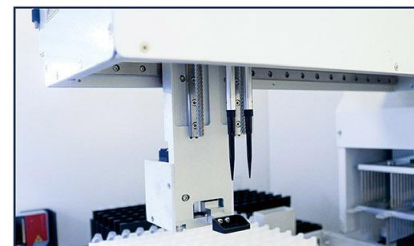
Automatic Nucleic Acid Extraction System BK-AutoHS96



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Introduction:

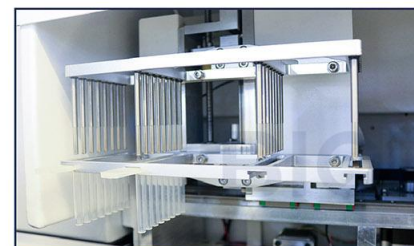
BK-AutoHS96 Automatic Nucleic Acid Extraction System is a fully automatic high-throughput equipment with automatic sample addition, nucleic acid extraction and PCR system configuration. With magnetic bead extraction reagents, it is suitable for automatic nucleic acid extraction and purification of 1-96 clinical samples of various types. The flexible automatic liquid handling function can accurately complete sample loading and reagent distribution according to requirements. Humanized software design, simple operation, no manual steps, greatly improving work efficiency.



Robotic Arm



Working Zone



Extraction Area

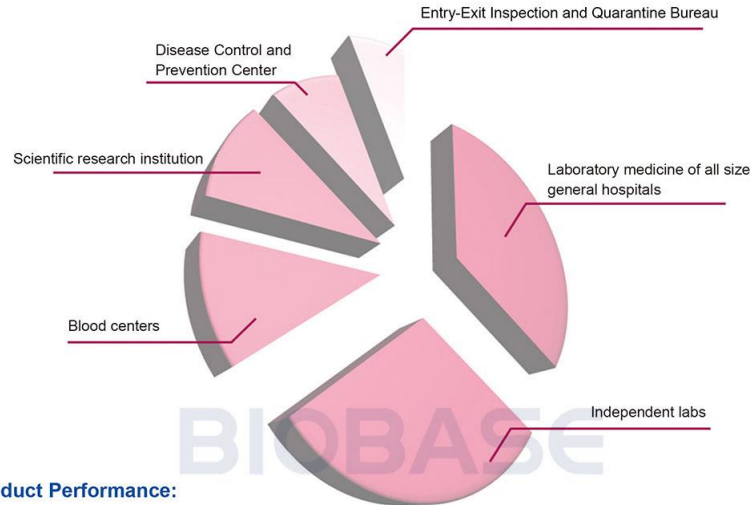


LCD Display

Feature:

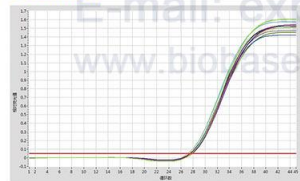
- * Accurate pipetting, air pressure correction can adapt to extreme environments such as flat ground, plateau, island, etc., to ensure the accuracy of pipetting.
- * 96 samples can be processed within 60 minutes, realizing high-throughput processing of samples, saving time and effort.
- * Reagent position and PCR plate position, can be refrigerated at 4°C.
- * With high-efficiency filter, ultraviolet disinfection and sterilization, and safety door functions, effectively prevent microbial pollution.
- * Multi-threaded control and three-module extraction can run three different extraction programs at the same time.
- * Intelligent temperature control, over-temperature protection function.
- * Preset multiple experimental programs, strong compatibility, suitable for various types of sample graphic guides, visualized operations.
- * Nucleic acid products can be allocated to the 2*96 PCR reaction system to flexibly construct a variety of different PCR detection systems.

Application:



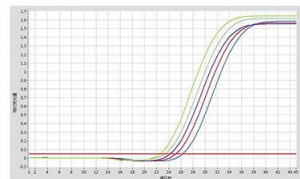
Product Performance:

Precision



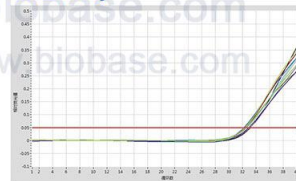
The same HCV samples were repeatedly extracted for 10 times and analyzed by qPCR. CV<3%

Linear



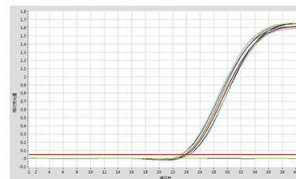
The HCV positive samples were diluted with equal dilution, and the linear correlation coefficient was $R^2 > 0.98$

Sensitivity



The HCV samples with the concentration of 151U/mL were extracted, and the detection rate was 10/10

Cross Contamination



HCV positive and negative samples were cross-extracted without cross-contamination

Parameters:

Model	BK-AutoHS96
Extraction Method	Magnetic Bead Method
Working Mode	Automatic sampling + Nucleic acid extraction + PCR reaction system addition
Throughput	1-96, Linear slide type sample rack
Extraction Volume	20-1000µl
Processing Time	Complete the processing of 96 samples within 60 minutes (related to reagents)
Magnetic Bead Recovery	≥98%
Temp Range	RT-105°C, Lysis and elution position
Temp Accuracy	0.1°C
Heating Method	Dry bath heating
Heating Speed	RT-100°C≤6min
Shaking Function	Up and down oscillation (1-5 gears adjustable)
Extraction Position	6 (96-well deep well plate)
Robotic Arm	A robotic arm for adding samples and reagents
Pipetting Channel	2 Channel
Liquid Detection	Pneumatic liquid level detection principle, intelligent detection of blocked needle
Pipetting Tip	50µl, 200µl, 1000µl, Disposable black conductive needle with filter element
Tip Amount	2-3 Tips/sample
Pipetting Accuracy	10µl, CV≤3.0%, Accuracy≤5.0%, 50µl Tip 50µl, CV≤2.0%, Accuracy≤2.0%, 1000µl Tip 100µl, CV≤1.5%, Accuracy≤2.0%, 1000µl Tip
Sample Volume	2-1000µl
Working Zone	2 PCR positions with cooling function; 6 Tip positions for three types of Tips 2 Reagent positions (5ml freezing tube rack position with cooling function, one reserved position)
Protective Function	Start up self-test, Power-off protection, High temperature alarm, Over-temperature protection, Tip removal protection
Disinfection Method	UV lamp (30W*1, 8W*1)
Illumination Lamp	10W LED lamp
Audible Alarm	Yes (Red and blue blinking)
Safety Door Design	With safety lock function, the safety door is opened and the program is suspended
Display	10.1inch touch screen, Windows System
Scanning	Optional
Interface	LAN interface (Bi-direction LIS optional)
Contamination Control	Built-in air duct and HEPA filter can effectively filter internal aerosols and prevent cross-contamination
IAP Function	Firmware can be upgraded online at any time
Power Supply	110/220V, 50/60Hz
External Size (W*D*H)	1420*850*1842mm
Package Size (WD*H)	1535*970*1180mm (Main instrument) 1540*970*1160mm(Base)
Gross Weight	360kg(Main instrument); 190kg(Base)