TE GEN 透景
Stock Code : 300642

Drext - DP400

Enclosed Automated Sample Distributing System

Technical Parameters

No.	Indicator	Performance Parameter
1	Function	Realizes sample barcode identification, cap opening, liquid distribution, cap closing and recycling
2	Sample Tube Specification	Compatible with multiple centrifuge tubes, cryopreservative tubes, viral medium tubes and other tubes with screw caps
3	Sample Throughput	1-96 samples with flexible loading
4	Treatment Speed	20 mins for whole pre-treatment of 96 samples
5	Sample Addition Channel	2 independent sample addition channels
6	Suction Monitoring	CCD visual monitoring; detect and record suction failures or insufficient suction while operating
7	Anti-contamination Measures	◇ Single-use filtered pipette tips for sample addition ◇ Directional exhaust system ◇ HEPA high efficiency filter system ◇ UV light sterilization ◇ Specified liquid distribution route
8	Distribution Mode	Can simultaneously operate opening of 4 sample tubes
9	Pipetting Range	1μL to 1000μL
10	Liquid Distribution Accuracy	◇ Pipette volume 100μL; Accuracy ±2%; CV≤1% ◇ Pipette volume 1000μL; Accuracy ±1%; CV≤1%
11	Consumables Monitoring	Real-time monitoring of consumables at experimental interface
12	BarCode Identification	4 independent scanning modules for 1D, 2D barcode identification; Supports 2/5 Interleaved, Code39, Code128, ENA/UPC, EAN Addendun, Codebar, pharma Code, Code93 and more codes
13	Program Management	Experimental items and their parameters can be freely edited
14	Program Storage	Can store more than 20000 progams
15	Operation Interface	15.6 inch touch-screen display
16	Information Portal	USB; RS232 port; Supports LIS Connection; Can provide API port
17	Safety Measurement	Tip detection function
18	Power Failure Protection	Experiment can start and resume from any step
19	Operating Environment	-40°C to room temp.; 15-85% humidity
20	Size	1120mm * 680mm * 900mm
21	Weight	150KG
22	Power Input	Voltage: 100V-120V/200V-240V AC; Frequency: 50/60Hz

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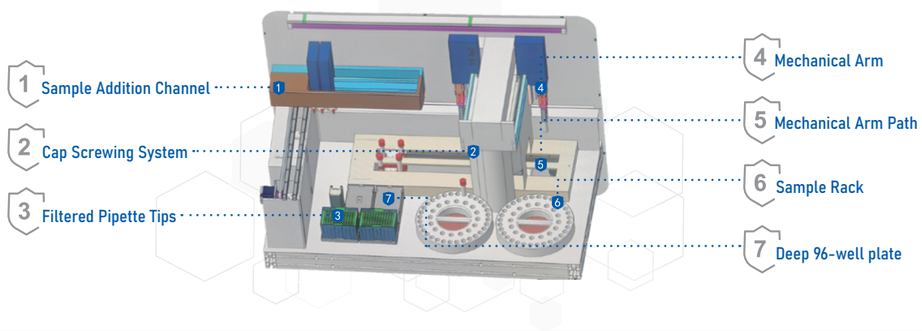
Function Introduction

The enclosed automated sample distribution system (Drext-DP400) is specially designed for automation of sample pre-treatment with features such as tube barcode identification, cap opening, liquid distribution, cap closing, and recycling. Drext-DP400 pairs up with a rotating sample holder design, with 2 mechanical arms, 4 screw cap arms, 2 sets of alternative running tracks, and 2 independent sample addition arms. This combination allows 2 tubes liquid addition and 4 tubes cap opening simultaneously, easily satisfying high efficiency and high throughput, safe from contamination in one click, providing worry-free, easy, and caring solution for sample pre-treatment.

Internal Structure



Function Highlights

Fully Automated

Coloured touch screen, one touch for automated processing

High Efficiency with High Throughput

Able to realize the complete pre-treatment of 96 samples within 20 mins, efficiency is improved by 2-3 times compared to similar products on the market

Free From Contamination

Closed cap entry and exit, no manual operation needed; UV light for sterilization; HEPA high efficiency filter system; and unidirectional exhaust system etc.

Flexible and Compatible

Compatible with centrifuge tubes, cryopreservation tubes, viral medium tubes, and other cap screw samples; Pair with multiple nucleic acid extractors

Running Procedure

STEP 1

Close Cap Entry

Sample enters with closed cap, which is compatible with many tube types

STEP 2

BarCode Scanning

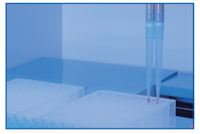
BarCode can be identified in any direction

STEP 3

Auto Cap Opening

Mechanical arm automatically screws open tube cap

STEP 4



Sample Distribution

Speedy distribution of sample

STEP 5

Closed Cap Exit

Sample is successfully distributed and capped for exit