

ALLSHENG

# Biodisp-1

## Reagent Dispenser



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## Reagent Dispenser

Biodisp-1 reagent dispenser mainly used to dispense reagents for various standard SBS plates (6 / 12 / 24 / 48 / 96) and cartridges / deepwell plates of Allsheng Leap-Pure series nucleic acid purification system, Auto-Pure series nucleic acid purification system, and also suitable for cartridge holder blocks of Allsheng automated plate heat sealer and Allsheng film cutting machine.



### 01 Precise Dispensing

4 mm pump tube: minimum dispensing volume of 30  $\mu\text{L}$ , dispensing accuracy  $\pm 2\%$  (@100  $\mu\text{L}$ ).

3 mm pump tube: minimum dispensing volume of 15  $\mu\text{L}$ , dispensing accuracy  $\pm 2\%$  (@30  $\mu\text{L}$ ).

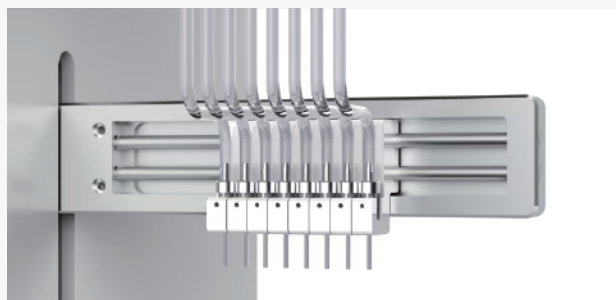
### 03 Easy to Operate

7-inch touch screen display, equipped with QT system, simple software interface, graphical design, low user learning cost.

### 05 Reagent Residue, Bubble Monitoring

There are 8 bubble sensors on the outside of the 8 input pipelines, which have an alarm function for insufficient reagents or the generation of bubbles in the tubes during dispensing, to avoid inaccurate dispensing caused by insufficient reagents or the generation of bubbles.

### 07 8-Channel Adjustable Spacing Pipettor



8-channel dispensing pipettor can be compatible with various container dispensing tasks of different heights and spacing through manual adjustment of spacing and automatic lifting of the dispensing pipettor.

### 02 High Compatibility

Support reagent dispensing of various standard SBS plates (6 / 12 / 24 / 48 / 96) and cartridges / deepwell plates of Allsheng Leap-Pure series, Auto-Pure series nucleic acid purification system, which can be compatible with various container dispensing tasks of different heights and spacing.

### 04 Pipelined Reagent Dispensing

Support reagent dispensing of 3 horizontal 96-well plates, 2 vertical 96-well plates, 2 $\times$ 8 Leap-Pure series cartridges, and 16 Auto-Pure series cartridges in one run, and has a continuous dispensing mode to simplify the need for large-scale reagent dispensing.

### 06 Support Simultaneous Dispensing of Multiple Reagents

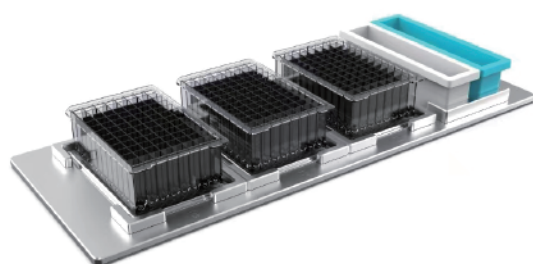


8 independent peristaltic pumps independently control 8 sets of input and output pipelines, and can simultaneously dispense up to 8 different reagents.

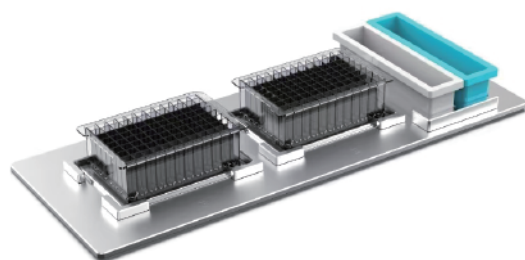
## App. A

### Common 96 / 48 / 24 / 12 / 6 Deepwell Plate Reagent Dispensing

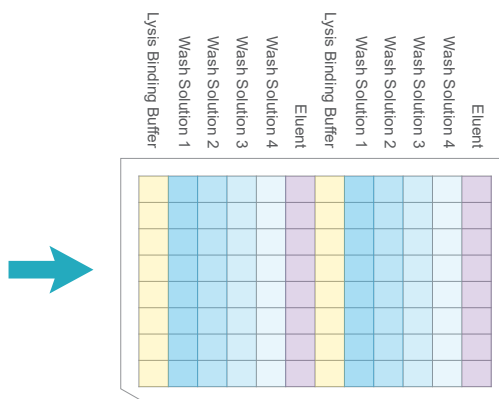
The reagent dispensing of deepwell plates has significant advantages in high throughput, precision, and safety, especially suitable for fields such as biomedical research and chemical analysis that require a large amount of reagent dispensing. It can accurately control the dispensing volume, reduce human errors, ensure the accuracy of experimental results, and significantly improve work efficiency.



Horizontal placed 96-well plate structure



Vertically placed 96-well plate structure



#### Suitable for:

Auto-Pure 96 / 48 / 24  
Auto-Pure S32  
Auto-Pure 32A / 16A  
Auto-Pure Mini



24 deepwell plate



48 deepwell plate



96 deepwell plate

## App. B

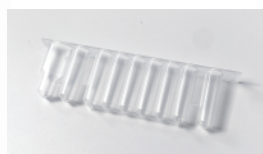
### Allsheng Auto-Pure, Leap-Pure Series Nucleic Acid Purification System Cartridge Reagent Dispensing

It is suitable for the reagent dispensing of various volume cartridges of Allsheng Auto-Pure and Leap-Pure series nucleic acid purification system, solving problems such as multiple cartridge dispensing wells and large volume, supporting continuous dispensing, effectively reducing human costs and dispensing errors.

#### Suitable for Auto-Pure Series Nucleic Acid Purification System Cartridges



Auto-Pure series nucleic acid purification system cartridge holder



3 mL cartridge



5 mL cartridge



10 mL cartridge

## Suitable for Leap-Pure Series Nucleic Acid Purification System Cartridges



Leap-Pure series nucleic acid purification system cartridge holder



2 mL cartridge



8 mL cartridge



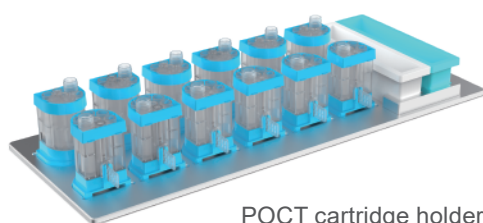
15 mL cartridge



20 mL cartridge

## App. C

### Allsheng Ecos-Gene Automated Nucleic Acid Extraction and PCR System POCT Cartridge Reagent Dispensing



POCT cartridge holder

The POCT cartridge reagent dispensing effectively reduces the risk of cross-contamination of reagents and the operational threshold during dispensing, which is a necessary measure to improve detection efficiency, result accuracy, and operational safety. Combined with Allsheng Ecos-Gene automated nucleic acid extraction and PCR system, it is suitable for various medical and on-site testing scenarios.

## Integrated Solution for Reagent Dispensing, Sealing and Film Cutting

It can be used with the Allsheng plate sealer and film cutting machine to complete the whole process from reagent dispensing to cartridge sealing and then to cartridge film cutting, meeting the personalized needs of different customers.

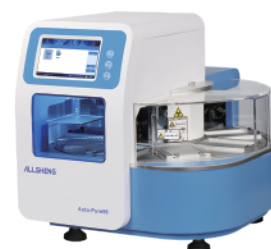
### 96 / 48 / 24 Deepwell Plate



Biodisp-1  
Reagent Dispenser

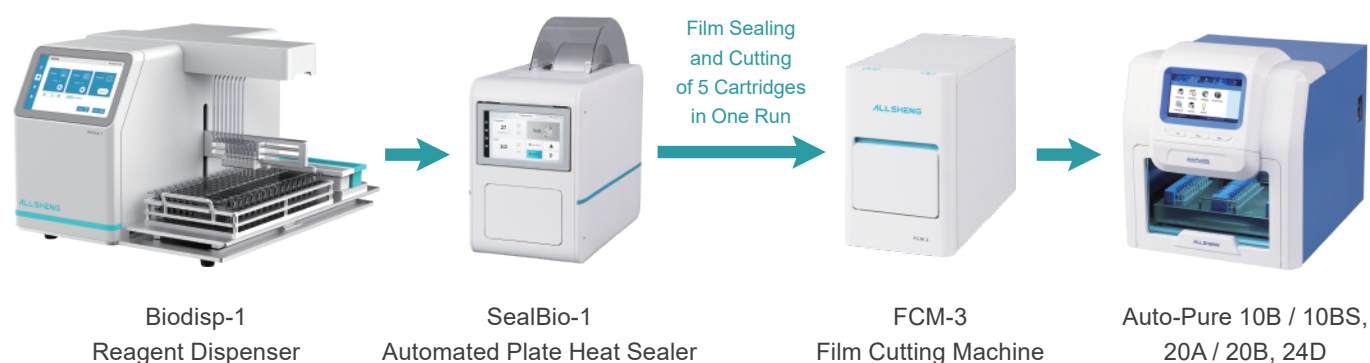


SealBio-1  
Automated Plate Heat Sealer

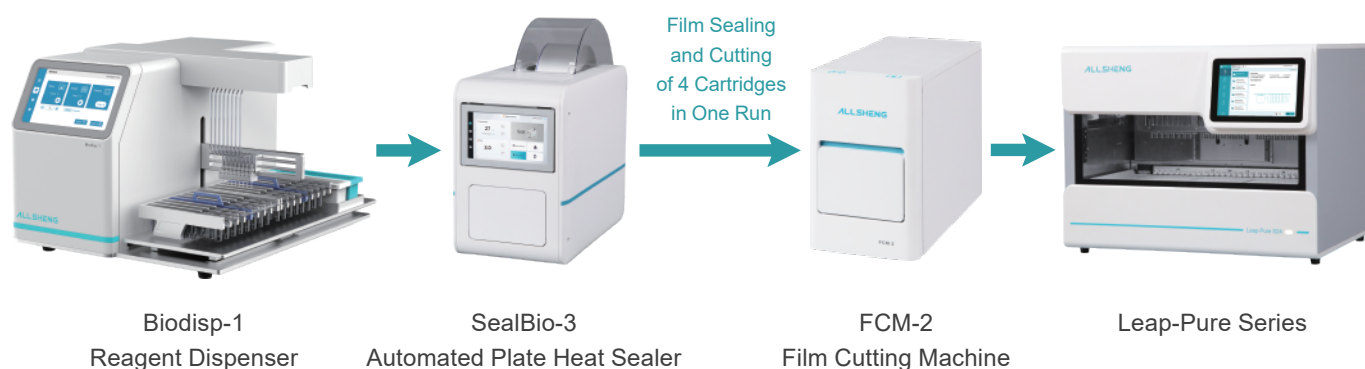


Auto-Pure 96 / 48 / 24,  
S32, 32A / 16A, Mini

## 3 / 5 / 10 mL Cartridge



## 2 / 8 / 15 / 20 mL Cartridge



## Specification

Model	<b>Biodisp-1</b>	
Dispensing principle	Peristaltic pump dispensing	
Dispensing channel	Independent 8-channel	
Motion accuracy	±0.2 mm	
Minimum dispensing volume	4 mm pump tube: 30 µL	3 mm pump tube: 15 µL
Dispensing accuracy	4 mm pump tube: ±2 % @100 µL	3 mm pump tube: ±2 % @30 µL
Dispensing precision	4 mm pump tube: ≤15 % @100 µL	3 mm pump tube: ≤15 % @30 µL
Dispensing speed	4 mm pump tube: 3 µL/s-2000 µL/s	3 mm pump tube: 1 µL/s-1000 µL/s
Dispensing monitoring	Reagent residue monitoring and alarm	
Consumables	Nucleic acid extraction cartridges, various SBS well plates, supporting customization	
Consumable height	Compatible with a height range of 5-65 mm	
Port	USB-B port, Ethernet port	
Operating software	7-inch touch screen software, QT software	

## Ordering Information

Code	Product description
AS-17240-00	Biodisp-1 reagent dispenser

### Consumables Information

Code	Product description	Suitable consumables	Full load consumable volume
AS-17241-01	Horizontal placed DWP plate holder	96 / 48 / 24 / 6 deepwell plate	3
AS-17241-02	Vertically placed DWP plate holder	96 / 48 / 24 / 6 deepwell plate	2
AS-17241-03	3 / 5 / 10 mL Auto-Pure series cartridge holder	3 / 5 / 10 mL cartridge (Auto-Pure series)	16
AS-17241-04	2 / 8 / 15 / 20 mL Leap-Pure series cartridge holder	2 mL cartridge (Leap-Pure series)	16
AS-17241-05	POCT cartridge holder	POCT cartridge	12

Code	Product description
AS-17241-20	Waste liquid container (white)
AS-17241-21	Waste liquid container (blue)
AS-17241-22	3 mm silicone tube (inner diameter 1 mm)
AS-17241-23	4 mm silicone tube (inner diameter 2 mm)

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