

## Technical Specification

Model	MediaPrep-20	MediaPrep-30	MediaPrep-60	MediaPrep-90
Chamber Size (Ø×H)	316×250 mm	316×420 mm	400×500 mm	400×720 mm
Chamber Volume	20L	30L	60L	90L
Bucket Size (Ø×H)	280×200 mm	280×370 mm	380×445 mm	380×665 mm
Bucket/Effective Volume	12L/10L	23L/20L	50L/43L	75L/65L
Design Temperature	150 °C			
Max. Temperature	140 °C			
Sterilization Temperature	105~136 °C			
Dispensing Temperature	40~100 °C			
Water Bath Temperature	40~60 °C			
Temperature Accuracy	0.1 °C			
Sterilization Time	0~999 mins			
Max. Allow Pressure	3 bar			
Design Pressure	0~4 bar			
Feeding Water	Deionized water, pressure ≥ 1bar, with high and low liquid level alarm			
Circulating Water	Tap water, pressure ≥ 1bar			
Chamber Material	SUS316L			
Outer Shell Material	Standard: White cold rolled steel plate with electrostatic spraying Option: SUS304			
Dispensing Port	1			2
Feeding Port	1			1
Stirring Speed	120, 240rpm quick selectable; 0~240rpm stepless adjustable			
Power Consumption	6 KW		12 KW	
Power Supply	220V/50Hz		380V/50Hz	
Dimensions (W×D×H)	550×700×550 mm		750×800×880 mm	
Weight	80 KG	100 KG	122 KG	160 KG
Safety device	Overtemperature automatic protection device, Dry burn protection device, Door safety interlock device, Overpressure automatic relief safety valve			
<b>Peristaltic Pump/Automatic Dispenser (Optional)</b>				
Dispensing Volume	1ml ~ 10L			
Flow Rate	0.6ml~7000 ml/min			
Dispensing Error	≤ ±0.5%			

\*Ultrassay BioTech Co., Ltd. reserves the right of final interpretation of different specifications.

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# Automated Culture Media Preparator



**The most efficient solution for a fast and safe preparation of culture media**

*5 processes streamlined in 1 solution*



Preparation



Sterilization



Cleaning of lines



Fast cooling



Dispensing

◆ **Modern and ergonomic design**



◆ **Applications**

- Preparation of specific media for plant tissue culture
- Preparation of high-density enriched media for fungal culture
- Preparation of agar
- Preparation of lysogeny broth
- Preparation of buffer solutions

◆ **Fields**

- Plant tissue culture laboratories
- Stem cell culture laboratories
- Microbiology laboratories
- Clinical analysis laboratories

◆ **Professional reproducibility**

By performing a single weighing and processing the entire preparation under identical conditions, much better precision and reproducibility are achieved.

◆ **Perfect homogeneity**

Achieves even mixing of all elements in the medium by leveraging the built-in continuous stirring system of the equipment. This system allows for speed adjustment to suit a range of demands.

◆ **Accurate control of temperature**

A PT-100 flexible temperature probe continuously measures the medium's temperature, enabling the microprocessor to regulate the cycle based on temperature or directly through lethality using the F0 value.

◆ **Time savings**

The integration of multiple functions into a single device, along with the fast cooling system, allows for increased productivity and optimized workflow.

◆ **Advanced safety**

Our designs prioritize user safety and comfort, incorporating features such as automatic door locking, thermally insulated covers, casters for ease of transportation and alarm systems that notify of malfunctions or cycle completion alerts.

◆ **Reduction of human error**

By greatly reducing the need for human intervention, we eliminate the usual errors associated with manual operations like imprecise measurements, omitted steps, and operator technique discrepancies.

**Optional Accessories**



**MediaFill-17**



**MediaFill-400**  
400 dishes/hr

**MediaFill-800**  
800 dishes/hr

*"It can be used as an autoclave and as a media preparator"*