

BioMatrix Life Science
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BioVita G

Highly Flexible Bioreactor for Research and Development

Optimizing Progress with Flexibility



Company Overview

BioMatrix is a leading provider of innovative fermentation solutions, with a focus on efficiency, precision, and flexibility. With years of expertise in biotechnology and a commitment to sustainable production, we deliver cutting-edge systems that adapt to the diverse needs of industries such as pharmaceuticals, food & beverage, and environmental engineering.

Technical Expertise

Our state-of-the-art fermentation tanks are engineered for optimal performance, offering advanced features like precise temperature control, real-time monitoring, and energy-efficient operation. We prioritize flexibility in design, allowing for tailored solutions that meet unique production requirements. Our team of skilled engineers and scientists is dedicated to delivering customized solutions that drive production success.

Industry Experience

With over a decade of experience in the biotech sector, we have successfully partnered with clients globally, helping them streamline their processes and achieve superior fermentation results. Our solutions are trusted by top-tier companies for their reliability, scalability, and flexible approach to meeting diverse production needs.



BioVita G: The Ultimate Universal Controller offers Full Flexibiliy

Flexible Configurations

"BioVita G controllers are advanced systems designed to monitor and precisely control critical fermentation parameters, including: Temperature Control/ pH Regulation/Dissolved Oxygen Management/ Agitation Control/Automated Feeding Systems"



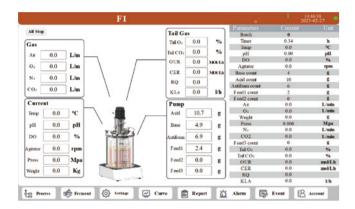
Vessels

- -Working volumes from 0.3 to 10 L
- -Up to 14 ports for sensors (anti-foaming agent, pH, pO2, redox, etc.)
- -Customizable with various stirrers and spargers

BioVita G- Control System

With independent design and proprietary intellectual property rights, our system delivers precise theoretical foundations to advance fermentation research.

Control parameters: temperature, stirring, PH, DO, feed, defoaming and other parameters for detection, recording, control setting; pH and DO sensors can be easily calibrated through software.



						F1	Cali	bratio	1	- 4		Antifo 2	14:48:47 025-02-3	27
pH Calibration Sampling: 0.00 (pill) Memore: 0.00			Temp Calibration Sampling: 0.00 Measure: 0.00 (°C)			DO Calibration Sampling: 0.08 Measure: 0.05 (%)		Alkali Pump Calibration Calibration Usigkt 0.00 g		Acid Pump Calibration Calibration Weight 0.00 #				
Befferi	0.00	Point	First	0.0	Point1	First	0.0	Point1	Pump Speed	100	rla	Pump Speed	; 100	ein
Brilled	0.00	Point2	Second	0.0	Point2	Second	0.0	Point2	Timer	0.03	min	Timer	0.02]-
Slape:	Init	Newpt: 0.00	Sloped	Init	respt: 0.00	Slopec	Init	escept; 0.00	Calculate	60.00	ginia	Calculate	60.00	gy
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Calcul	ate 60	00 glain	Calcul	ate 60	.00 ginia	Calcul	ate 6	0.00 g/min						

Temperature Control

Ensures optimal fermentation conditions by precisely regulating temperature.

pH Control

Maintains ideal pH levels for efficient enzyme activity and microbial growth.

Dissolved Oxygen (DO) Control

Monitors and adjusts oxygen levels to optimize aerobic fermentation.



BioVessel G

Our BioVessel is the ideal benchtop bioreactor for your lab.

The multi-talented control cabinet opens up a new world of flexibility for your changing requirements. It can be used in single, twin, or multiple configurations, making it suitable for a wide range of applications.

Choose from our selection of conventional stirred-tank glass vessels, with a maximum working volume range from 1L to 10L. This flexibility ensures you have the perfect setup for your cultivation needs, whether for microbial or cell culture experiments.

Our reliable autoclavable borosilicate glass culture vessels are available in multi versatile volumes ranging from 1L to 10L, catering to a wide variety of cell culture and microbial applications.



How your benefit

The classic stirred-tank design ensures ease and reliability for seamless scale-up and scale-down studies.

Optimize your resources with the specal designed vessels, ideal for use in general lab autoclaves, reducing the need for additional investment.



Flexible Configurations

BioVita G controllers are advanced systems designed to monitor and precisely control critical fermentation parameters, including: Temperature Control/ pH Regulation/Dissolved Oxygen Management/ Agitation Control/Automated Feeding Systems



Technical **Specifications**

• Standard © Optional





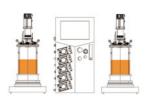






Multi-style			Microbial bioreactor	Double-wall bioreactor		
	Total volume (L)		1-10	1-10		
	Working volume (L)	30%-70%	30%-70%		
Glass type vessel	Vessel quantity		1	1		
	Sterilization		Off-site sterilization (in Autoclave)			
	Stainless steel bo	ottom jacket heating	•	-		
Heating method	Doubel-wall glass	jecketed heating	-	•		
	Electric blanket h	eating	-	-		
		Standard	Air	Air		
	Gassing	Optional (O2/N2/CO2/CH4)	0	©		
Gas supply system	Gas flow control	Roto flowmeter (manual control)	•	•		
	Cas now control	Mass flowmeter (automatic control)	0	0		
	Air intake way		Bottom O-Ring Sparger			
	Machanical stirrin	9	Standard for bacterial culture			
Otherina or an extrans	Speed (RPM)		0-1000 rpm ±1rpm			
Stirring system	Magnetic stirring		Standard for cell culture			
	Speed (RPM)		0-300 rpm ±1rpm			
Feed supplement	Dariataltia numaa		Standard with 4 high-precision peristaltic pumps			
system	Peristaltic pumps		Optional: 6 or 8 pcs			
		Temperature	•	•		
		рН	•	•		
		DO	•	•		
Detection electrode	Sensor	Antifoam	•	•		
		CO2	0	0		
		OD	0	0		
		Other	0	0		
Touchscreen controll	er	Kunlun	•	•		
2.2	-	Siemens	0	0		
Remote control system			0	0		

Technical Specifications







			5 11 1 1 1 1	Multi-Channel mini				
Multi-style	-		Benchtop duplex bioreactor	parallel bioreactor	Multiple bioreactor			
	Total volume (L)		1-10	0.1-2.5	1-10			
Glass type vessel	Working volume	(L)	30%-70%	30%-70% 	30%-70%			
	Vessel quantity		2	2/4/6/8/12				
	Sterilization		Off-site sterilization (in Autoclave)					
		ottom jacket heating	•	•	•			
	Doubel-wall glass jecketed heating		-	-	-			
	Electric blanket heating		•	-				
	Gassing	Standard	Air	Air	Air			
		Optional (O2/N2/CO2/CH4)	©	0	©			
Gas supply system		Roto flowmeter (manual control)	•	•	•			
	Gas flow control	Mass flowmeter (automatic control)	0	0	0			
	Air intake way		Bottom O-Ring Sparger					
	Machanical stirri	ng	Standard for bacterial culture					
NI 1	Speed (RPM)		0-1000 rpm ±1rpm					
Stirring system	Magnetic stirring	1	Standard for cell culture					
	Speed (RPM)		0-300 rpm ±1rpm					
eed supplement	Peristaltic pumps		Standard with 4 high-precision peristaltic pumps					
system			Optional: 6 or 8 pcs					
		Temperature	•	•	•			
		рН	•	•	•			
		DO	•	•	•			
Detection electrode	Sensor	Antifoam	•	•	•			
		CO2	0	©	0			
		OD	0	©	0			
		Other	0	0	0			
		Kunlun	•	•	•			
Touchscreen controller Siemens			0	0	0			
Remote control system			0	©	0			

StandardOptional