



Bio Pure - Bio Pilot Purification System





Bio Pure - Bio Pilot is design for bio molecular purification in lab scale. It can be used for gram sample purification and drug research and development process. It can be combined with Bio analysis system in R&D process to accelerate progress of drug research.

Solution inlet	Three buffer inlets. One inlet can be used to feed sample. All of valve is membrane valves. The inlet line can be added by customer's requirements.		
	Gradient system added with matched solution inlet.		
Air Sensor	One ultrasonic air sensor used to detect air bubble in solution and sample.		
Eluent Pump	3L/h, PEEK pump head, plunger pump,100bar	6L/h, PEEK pump head, 100bar	15L/h, PEEK pump head, 100bar
Drain valve	For drain process of pump.		
Flow meter	Display and record the flow rate of system. One is in main flow path, the other one is in branch flow path.		
Mixing chamber	Static mixing, forming gradient eluent.		
Pressure Trans- mitter	Used to monitor the pressure and secure the chromatography system. There are three pressure transmitter in system. Two detect the block of filter. One used for detect the column block.		
Bubble Trap	One automated bubble trap equipped with by!pass, purge		
Online filter	Cartridge filter, pore size 0.2 μm . One online filter with by pass, drain function.		
Sample Injection Valve	One membrane manual valve used to inject small quantities of sample to test the column efficiency		
Air Sensor	One ultrasonic air sensor used to detect air before solution entry into column.		
Bypass and Backlash func- tion	One specific block of 5 membrane valves to ensure by!pass and backflush functionality		
Detection	Conductivity and pH sensor after the column exit (pH range 1!14, conductivity 0!500 mS/cm)		
	Mutil!wavelength UV detector(190~700nm) equipped with a fiber optical flow cell		
Collection Valves	Five pneumatic 2!way membrane valves (normally closed) used to perform the fraction collection One valve connected to the waste outlet		









Conductivity and pH detector			
Detection range	0.02~500ms/cm		
Accuracy	More than ±5.0%		
Tolerance pressure	0~20bar		
Temperature range	!20 to 150℃		
Temperature accuracy			
	±0.1°C (±0.1°F)		
Electrode material	SS 316L/1.4435		
Body material	PEEK		
PH range	0!14PH		
Temperature range	0 to140°C (32 to 284°F)		
Tolerance pressure	0 to 6bar		
Wetted material	Ceramic		
Reference system	silver ion trap capture / silver chloride system		
Flow meter			
Flow rate range	3L/H, 6L/H or 15 L/H		
Tolerance pressure	>2MPa		
Wetted material	1.4539/904L SST		
Pressure transmitter			
Accuracy	0.15%		
Detecting range	0!4Mpa		
Wetted material	316L		
Air sensor			
Tube size	1.6~25.4mm		
Reaction time	Bubble detecting (wet to dry): Max. time 215ms		
	Wet detecting (dry to wet): Max. time 46ms		
Air trap			
Tolerance pressure	0.8MPa		
Volume	200ml		
Wetted material	316L/PTFE/EPDM		





Membrane valve			
Control mode	Pneumatic, manual		
Wetted material	SST316L PTFE		
Pressure range	0!10bar		
Surface finish	≤0.4μm		
Diameter	DN4, DN6, DN10		
Tube			
Wetted material	316L		
Connecting mode	T!Clamp,		
Surface finish	Inner surface Ra<0.4μm; outside surface Ra<0.8μm。		

SOFTWARE		
Package	ClarityChrom	
compliance	21CFR Part 11 compliance	
Multi"user environment	Selectable system of user accounts with independently customizable behavior and appearance for individual users	
Integration	27 integration parameters (peak width, threshold, tangent slope ratio etc.) integration parameters programmable in time, automatic relintegration	
Security and GLP	Installation qualification test of the software; FDA 21 CFR Part 11 conformance, validation with virtual detector	
Instrument control	method!based instrument control, Instrument status dis play and Direct!Control mode	
Chromatogram operations	Overlay view, custom labels and settings, also applying mathematical operations to chromatograms	
Automation	Sequences, automatic launch of selected commands or applications immediately following chromatogram acquisition – Post run, Batch	
System suitability test	automates the calculation of system suitability parameters for system validation	
P&ID function	The software includes a good operation interface (P&ID); the whole system can be controlled by the relevant buttons in the P&ID, for example:	
	Set up the parameters for the pumps and detector, such as system pressure limit and wavelength, etc.	
	Choose different fraction collection channels for the distillate (1!8). $ \label{eq:choose} % \begin{array}{ll} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array} $	
	Normal operating system to carry out system balancing, sampling, sample elution and fraction collection, etc.	



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HPLC Servicing :We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

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Fully Automated CLIA



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