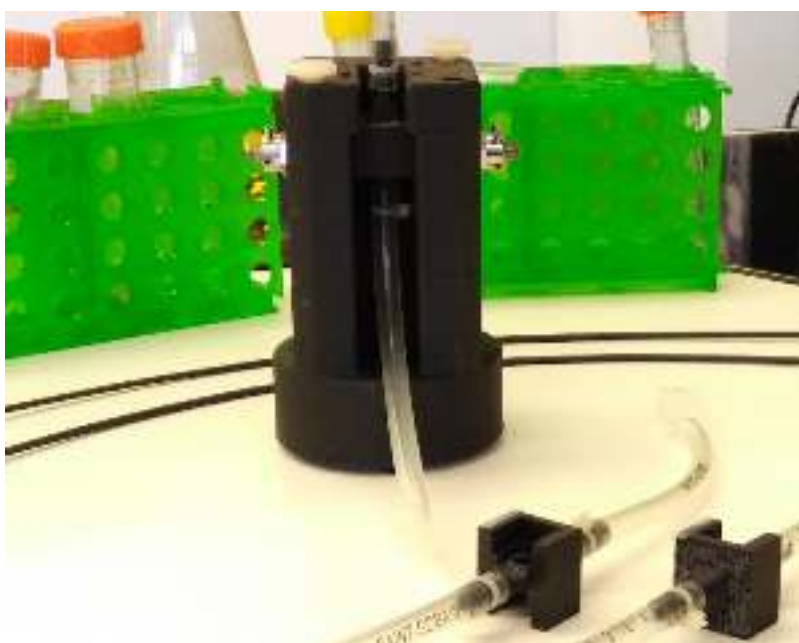


BioFlowCell



BioFlowCell is an innovative patent pending disposable flowcell sampling accessory thoughtfully designed with sterility assurance in mind for real time absorbance and turbidity analysis applications. These flowcells are ideal for bio-process upstream and downstream applications with small sample volume enabling in-situ continuous monitoring or on-the-spot analysis without sample taking or laborious offline analytics.

The BioFlowCell sample accessory couples to two SMA terminated fibers and is configurable to hold a variety of pre-sterilized disposable pathlength flow cells, which have been used in long-term measurements and biotechnological applications of 10 days and longer. This is ideal for solution providers in the bioprocess and bioresearch industry where there is a need for either continuous maintenance monitoring or discrete testing



FEATURES

- Disposable Flowcells for bio-process control
- Absorbance and turbidity
- 1, 3, 5, 10 & 20 mm pathlength
- UV, VIS and NIR
- Re-usable flowcell holder with SMA 905 fiber coupling
- Continuous flow and discrete sampling
- Gamma and EtOH sterilizable
- Pre-sterilized flowcells available on request
- Downstream and Upstream in Bypass

BENEFITS

- Simple Luer based fluid connection applicable with all types of bioreactors and liquid samplers
- # BIOF-S-Holder fits all single path flowcells
- No loss of biofluid as online measurement in bypass with return of volume to the bioreactor
- No need for time consuming offline analytics
- Larger inner diameter improves baseline stability of aqueous samples
- Connects directly to a Peristaltic pump (#MINISTAR)
- Integrates easily with leading providers of fiber optic spectrometers and light sources



ACCESSORIES

APPLICATIONS

- Upstream and downstream bioprocess

WORLD PRECISION INSTRUMENTS

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BioFlowCell



Fiber Optic Holder for single path BIOF-Flowcells
#BIOF-S-Holder



- Flow injection analysis
- DNA, RNA & protein analysis
- Water Quality Analysis
- Colorimetric nutrient and trace metal analysis
- Drug discovery
- Process control

TIDAS S300 spectrophotometer
505066: 190 – 390 nm
505067: 190 – 720 nm
505068: 300 – 1000 nm



TIDAS S300 spectrophotometer
504717: 190 – 390 nm
504718: 190 – 720 nm
504719: 300 – 1000 nm



LWCC, 1mm ID, 100 MM Pathlength
LWCC-5010



MINISTAR Peristaltic Pump
MINISTAR
503120 TTL Control



SPECIFICATIONS

	BIOF-01S	BIOF-03S	BIOF-05S	BIOF-10S	BIOF-20S
Optical pathlength [mm]	1	3	5	10	20
Internal volume [ml]	0.2	0.3	0.4	0.7	0.7
Transmission ¹ [%]	>80	>80	>80	>80	>80
Wavelength range [nm]	210 - 2000				
Fiber connection	SMA 905, 600µm core fiber				
Fluid connection	Luer fitting for 4mm ID Tubing				
Operating temperature [°C]	10 to 50				
FlowCell Holder	BIOF-S-Holder				
Wetted Materials	ABS, Quartz, bio-compatible adhesive				
Flowrate [ml/min]	> 1				
Maximum Pressure [PSI / Bar]	7 / 1				
Solvent compatibility	Water, EtOH, mild acids and bases				
Sterilization	Gamma, Ethanol, Ethylene oxide				

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