









Fast Results in 35 sec.

Small Sample Volume

65µL sample volume

Reliable

Ready for use when you need it, high uptime of 23 hours per day



R&D, QC and Manufacturing Applications

Ideal for micro to large scale cell culture applications, the Vi-CELL MetaFLEX is designed for rapid and accurate Bioanalyte analysis.

Analyzer Performance

Measuring System	
Sample volume (all parameters)	65 µL
Measuring time (all parameters)	35 sec⁺
Cycle time	60 sec*
Throughput	44 samples / per hour*
Average uptime	23.5 hours / per day**

* May vary during startup

** May vary during startup; 2.5 min for system calibration is the longest activity

Sensor Cassette		
In-use lifetime	30 days (or until max number of tests)	
Shelf life	4 months	
Storage temperature	2-8° C / 35-46° F	
Automatic QC	Yes	
Number of tests	300	

Solution Pack		
In-use lifetime	30 days (or until solution pack is empty)	
Shelf life	4 months	
Storage temperature	2-25° C / 35-77° F	

Quality Management

Automatic quality management system

- 3 dedicated QC solutions
- Automatic detection and correction of failures
- Continuous system and analysis checks
- Air detection
- Automatic lockout of parameter that fails QC
- Customizable QC schedule

Instrument Qualification

• IQ/OQ

Measured Parameters				
Туре	Parameter	Units	Range of indication	
рН	Н	pH scale	6.3 - 8.0	
Cell Culture Gas		mmHg; Torr	5 - 250	
	pCO ₂	kPa	0.67 - 33.3	
	20	mmHg; Torr	0 - 800	
	p0 ₂	kPa	0 - 107	
	CK+	mmol/L	0.5 - 25	
	CN	meq/L	0.5 - 25	
	cNa⁺	mmol/L	7 - 350	
	CINd	meq/L	7 - 350	
Electrolyte		mmol/L	0.1 - 9.99	
	cCa ²⁺	meq/L	0.2 - 19.98	
		mg/dL	0.4 - 40.04	
	cCl-	mmol/L	7 - 350	
		meq/L	7 - 350	
Metabolite		mmol/L	0 - 60	
	cGlu	mg/dL	O - 1081	
		g/L	O - 10.81	
		mmol/L	-0.1 - 31	
	cLac	meq/L	-0.1 - 31	
	CLdC	mg/dL	-1 - 279	
		g/L	-1 - 2.79	

The Range of indication for a parameter is the range within which the analyzer is physically capable of measuring.

Ordering Information

Part Number	Description
B93015	Vi-CELL MetaFLEX
B93029	Vi-CELL MetaFLEX Solution Pack
B93030	Vi-CELL MetaFLEX Sensor Cassette

Regulatory Compliance

Establishing a strong partnership.

21 CFR Part 11

The Electronic Records and Electronic Signatures Rule (21 CFR Part 11) was established by the Food and Drug Administration (FDA) to define the requirements for submitting documentation in electronic form and the criteria for approved electronic signatures. Since analytical instrument systems such as the Vi-CELL MetaFLEX generate electronic records, these systems must facilitate compliance with the Electronic Records Rule. The Vi-CELL MetaFLEX features the following key system components to facilitate 21 CFR 11 compliance:

- Sample results log: 2000
- Activity log: 5000
- Calibration adjustment log: 1000
- Data secured by password protection
- Electronic signature capability
- Secure user sign-on
- 8 user level permissions
- Administrative configuration tools



Hardware

Computer specifications

- · Processor Intel Celeron® M 600 MHz
- with 512K L2 Cache
- 1 GB RAM
- · 2 GB SolidState storage
- 8.4" color TFT-LCD, resolution 800 × 600 SVGA Touch screen
- 4" thermal-sensitive printer

Inlet

- · Left/right hand operation
- Position for syringe as well as capillary and test tube
- Aspiration from capillary without adapter
- · Aspiration time 5 seconds

Software

Software platform

- Windows® XP Embedded
- · Sybase® SQL Anywhere

Data capacity

- · Sample results log: 2000
- Activity log: 5000
- · Calibration adjustment log: 1000
- · Data secured by password protection
- · 8 different user profiles
- · Unlimited ID access verification
- Printer display options
- Auto print (on/off)

Interface

- Built-in barcode reader for operator & sampler ID Accepted codes: UPC/EAN, Code 128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar and more
- Serial interface RS232 with power for external barcode reader
- · 3 USB connections
- · Optional external keyboard
- · Optional external mouse
- · Optional external barcode reader

QA features

- Advanced planning of replacement and QC schedules
- Optional automatic QC at startup and after replacements
- Customizable QC and calibration schedule

Communication

- HIS/LIS communication
- High-level protocols:
 - ASTM
 - HL7
 - POCT1-A
- · Low-level serial protocols:
 - ASTM 1381-91
 - E1394-91
 - Serial RAW
- · Low-level network protocols:
 - TCP/IP

Additional Information

Dimensions

Height 45 cm 17.7 in
 Width 25 cm 9.8 in
 Depth 29 cm 11.4 in
 Weight 11 kg 24.4 lbs

Other

- Startup time
 Operating environment
- Altitude correction
- Power
- Thermostat control

15 - 32° C / 59 - 89.6° F, 20 - 80% RH Up to 4000 m / 13,124 feet above

1.5 hours average (less than 4 hours)

sea level 100 - 240 V; 50 - 60 Hz; 250 VAC

Sensor cassette: 37 ± 0.15° C / 98.6 ± 32.27° F Oximetry: 37 ± 0.30° C / 98.6 ± 32.54° F

BECKMAN COULTER Life Sciences

CLASS 1 LASER PRODUCT

The Vi-CELL MetaFLEX ANALYZER and reagents are not intended or validated for use in the diagnosis of disease or other conditions. In Development.

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