

# BIOPROFILE<sup>®</sup> FLEX2 Specifications

## Sample Analysis Time:

2 minutes (Chemistry only)  
 2 minutes (Osmolality only)  
 3.8 minutes (Cell Density/Viability)  
 4 minutes (Gases only)  
 4 minutes (All 16 tests run simultaneously)  
 Operating Temperature Range .....10-30°C (50-86°F)  
 Operating Relative Humidity Range.....20-85%  
 Sample Size .....135 to 265 µL

## Sample Options:

Individual via syringe/cup  
 Automated batch using 24-position tray or 96-well plates

## Operating System Windows 7:

Electrical Requirements.....90-264 VAC, 50 to 60 Hz  
 (Universal Power Supply)

## System Size:

Height: 23.5 in (60 cm), Width: 17 in (43 cm), Depth: 25 in (64 cm)

## System Weight:

Analyzer: 94 lb (42.6 kg) without reagents packs

Safety Certifications: IEC 61010-1:2001, Quality Systems Certification:  
 ISO 9001:2008

OPC-compliant, PAT Compatible, 21 CFR Part 11 Compliant



## Compact size:

Height: 24 in (60.96 cm)  
 Width: 17 in (43.18 cm)  
 Depth: 25 in (63.5 cm)

## Chemistry/Gas Module

Assay	Measurement Range	Resolution	Method
Glucose	0.10–30.0 g/L*	0.05 g/L	Biosensor
Lactate	0.10–12.0 g/L*	0.05 g/L	Biosensor
Glutamine	0.10–12.0 mmol/L*	0.05 mmol/L	Biosensor
Glutamate	0.10–12.0 mmol/L*	0.05 mmol/L	Biosensor
Ammonium	0.2–25.0 mmol/L	0.01 mmol/L	Direct ISE
pH	5.000–8.000	0.001	Direct ISE
PCO <sub>2</sub>	3.0–200.0 mmHg	0.1 mmHg	Direct ISE
PO <sub>2</sub>	3.0–500.0 mmHg	0.1 mmHg	Clarke Electrode
Sodium	40–300 mmol/L	0.1 mmol/L	Direct ISE
Potassium	1.0–100.0 mmol/L	0.01 mmol/L	Direct ISE
Calcium	0.10–10.0 mmol/L	0.01 mmol/L	Direct ISE

## Calculated Tests:

O<sub>2</sub> Saturation; CO<sub>2</sub> Saturation; HCO<sub>3</sub><sup>-</sup> (bicarbonate), Temp.  
 Corrected pH, PCO<sub>2</sub>, PO<sub>2</sub>

\*Ranges reflect user selectable 1:2 dilution

## Osmolality Module

Assay	Measurement Range	Resolution	Method
Osmolality	0–2000 mOsm/kg	1 mOsm/kg	Freezing Point

## Cell Density/Viability Module

Assay	Measurement Range	Resolution	Method
Cell Diameter	4 – 70 µm	N/A	Digital Imaging
Density	100,000 – 80,000,000 cells/mL	N/A	Digital Imaging
Viability	0 – 100%	N/A	Digital Imaging

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