

Assay Data Sheet - Expected Ranges BioProfile® Controls - LEVEL 1 pH, PCO₂, PO₂, Na⁺, K⁺, Ca⁺⁺, NH₄⁺, Glucose, Lactate, Osmolality, Phosphate



Lot. No. 508733

Exp. Date 2026-09

Instrument Instrument Apparelis Strumentazione	Constituent Parameter Constituant Costituente	Units Einheiten Unites Unita	Mean Mittlewert Mittlewert Media	Expected Range Bereich Limites Intervalio	±3 SD Expected Range Bereich Limites Intervalio	Units Einheiten Unites Unita	Mean Mittlewert Mittlewert Media	Expected Range Bereich Limites Intervalio	±3 SD Expected Range Bereich Limites Intervalio
Conventional Units of Measure						Other Units			
BioProfile 400	pH PO ₂ PCO ₂ Glucose Lactate NH ₄ ⁺ Na ⁺ K ⁺	mmHg mmHg g/L g/L mmol/L mmol/L mmol/L			* *	kPa kPa mmol/L mmol/L g/L			
BioProfile 100 Plus	pH Glucose Lactate NH ₄ + Na+ K+	g/L g/L mmol/L mmol/L mmol/L	 	 	* *	mmol/L mmol/L g/L			
BioProfile Basic 2	Glucose Lactate	g/L g/L				mmol/L mmol/L			
BioProfile FLEX	pH PO ₂ PCO ₂ Glucose Lactate NH ₄ + Na+ K+ Ca++ PO ₄ P Osmolality	mmHg mmHg g/L g/L mmol/L mmol/L mmol/L mmol/L mmol/L mmol/L mg/L mg/L			* * * * *	kPa kPa mmol/L mmol/L g/L mg/L ppm			*
BioProfile FLEX 2	pH PO2 PCO2 Glucose Lactate NH4+ Na+ K+ Ca++	mmHg mmHg g/L g/L mmol/L mmol/L mmol/L mmol/L m0Sm/kg H ₂ 0	6.678 61.0 69.8 1.00 1.00 0.86 78.4 2.00 0.62 222	6.628 - 6.728 53.4 - 68.6 63.0 - 76.6 0.75 - 1.25 0.75 - 1.25 0.61 - 1.11 70.6 - 86.2 1.71 - 2.29 0.50 - 0.74 217 - 227	6.603 - 6.753 49.6 - 72.4 59.6 - 80.0 0.62 - 1.38 0.62 - 1.38 0.48 - 1.24	kPa kPa mmol/L mmol/L g/L	8.1 9.3 5.6 11.1 0.016	7.1 - 9.1 8.4 - 10.2 4.2 - 6.9 8.3 - 13.9 0.011 - 0.021	6.6 - 9.6 7.9 - 10.6 3.4 - 7.7 6.9 - 15.3 0.009 - 0.023
BioProfile pHOx	pH PCO ₂ PO ₂	mmHg mmHg	6.722 64.8 60.8	6.672 - 6.772 58.0 - 71.6 54.6 - 67.0	6.647 - 6.797 54.6 - 75.0 51.5 - 70.1	kPa kPa	8.62 8.09	7.72 - 9.53 7.27 - 8.92	7.27 - 9.98 6.86 - 9.33

 $^{^{\}ast}$ Expected Range includes all values to be seen for these parameters.

NOTE: It is recommended that each laboratory establish their own range of acceptable values, based on the allowed variation in the value of the parameter being measured.



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BioProfile® Controls

Product Information

NOVA BIOPROFILE® CONTROLS — An assayed aqueous quality control material intended for monitoring the measurement of pH, PCO_2 , PO_2 , sodium, potassium, ionized calcium, ammonium, lactate, glucose, osmolality and phosphate on Nova Biomedical analyzers ONLY.

Ingredients: These controls are formulated from a buffered bicarbonate solution, each with a known pH and containing known levels of sodium, potassium, glucose, lactate, calcium and ammonium. The solutions are equilibrated with known levels of oxygen, carbon dioxide and nitrogen. The volume of each ampule is 1.7 mL.

Level 1 (Blue) Catalog No. 22600 Level 2 (Green) Catalog No. 22601 Level 3 (Red) Catalog No. 22602

BioProfile® Controls contain no constituents of human origin, however, good laboratory practice should be followed during handling of these materials. (REF. NCCLS DOCUMENT M29-T2)

Storage: Controls should be stored at 15-30°C. Each control has a lot number and expiration date printed on the label.

Directions for Use:

Ampules must be stored at approximately 25°C for at least 24 hours before opening. Shake the ampule for about 10 seconds. Snap open ampule (protecting fingers with gauze or gloves), and within 30 SECONDS from opening, aspirate liquid from the ampule to the analyzer, following the manufacturer's recommended technique. Any delay in measuring may cause contamination with room air and alteration of stated values.

Assigned Values: The EXPECTED RANGE for each analyte was determined at Nova by performing multiple determinations at 37°C on multiple instruments using multiple runs of each level of control. The EXPECTED RANGE indicates the maximum deviations from the mean value which may be expected under differing laboratory conditions from instruments which are operating according to specifications.

Users may wish to determine MEAN VALUES and EXPECTED RANGES in their own laboratory. Please verify that the lot number appearing on the Assay Data Sheet agrees with the lot number appearing on the control material being analyzed.

PO2 values vary inversely with temperature, approximately 1%/°C

Limitations: The values appearing in the Assay Data Table are specific for instruments and reagents manufactured by Nova Biomedical.

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