NuLyte POCT

Blood Gas Analyzer



Marketed by:

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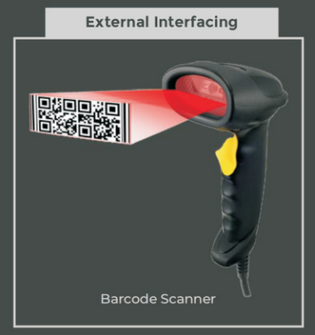
Analyzer's Advantages

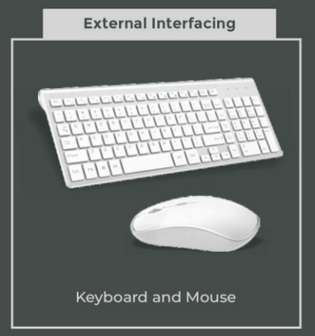
- Minimal Maintenance
- Easy to Operate
- Economical
- Accurate Results

NuLyte POCT
Blood Gas Analyzer

Features

- Aspirate 1 sample and acquire 28 different results.
  Blood gas : pH, pCO_2, pO_2.
  Metabolites : Glu, Lac.
  Hematocrit : Hct.
  Electrolytes : Na^+, K^+, iCa^{++}, pH, Cl^-.
  Calculated Parameters : Hb, HCO_3, BE, BE-B, BE-ECF, TCO_2, AG, AG(K), O_2 Sat, O_2 Ct, SBC, nCa, TCa, pO_2%, A, $AaDO_2$, a/A, mOsm.
- Thick film technology for Glu, Lac, pO_2, Hct parameters.
- Room temperature stable electrodes and reagents (no refrigeration needed while shipping and storage).
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- Numeric & alpha numeric input option with 15 digits Patient ID & Patient Name.
- Self probe wiping facility with 3 different aspiration modes (sample tube, sample syringe & capillary).
- The results can be recalled by Sample List, Date, Patient ID, Patient Name & Department.
- Unlimited User Accounts and Login facility by their unique User ID & Password.
- External mouse, keyboard & barcode scanner interfacing option.
- Reagent consumption & sample count monitoring facility.
- 10 inch high definition LCD with capacitive touch screen.
- Single Reagent pack for all 12 parameter combinations.
- Maximum 1,00,000 samples data storage capacity.
- Reference ranges with Results on display and print.
- One touch calibration for new reagent pack.
- Integrated parameter conversion functionality.
- Two USB(2.0) & One RS232 output ports.
- Default and Alternate units of measurement.
- Excellent precision and reliability.
- Extremely low cost per test.
- Automatic Calibration.
- Optional battery backup.
- Used for near patient testing use only.
- Multilingual support.
- No Maintenance
- Plug and Play



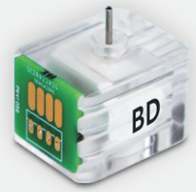


Specifications

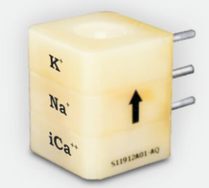
Principle	:	Direct measurement with ion selective electrode-ISE (Electrolytes), Impedence (Hct) and Amperometry (pO_2, Glu, Lac) using thick film technology.
Reading time	:	≅ 120 seconds.
Parameters	:	This functionality allows the change of analytes.
Sample Type	:	Whole Blood, Serum, Plasma, Diluted Urine and QC.
Conditioning	:	Storage 5°C to 40°C (41°F to 104°F) and relative humidity 10-90% Operating 15°C to 35°C (59°F to 95°F) and relative humidity 10-90%
Display	:	10 inch high definition LCD with capacitive touch.
Print	:	3 inch thermal printer.
Input voltage	:	100-240V AC, 50/60Hz, 1.4A
Dimensions	:	15.8" W x 13.5" H x 9.3" D , Weight: 5.6 Kg (without pack).
OS	:	Android.
Throughput	:	≅ 30 Samples / Hour
Sample volume	:	≅ 100µL (Capillary/Micro Mode), ≅ 180µL (Whole Blood, Serum, Plasma, QC), ≅ 500µL (Diluted Urine).
Battery	:	Optional (2 hours in standby mode).
Storage	:	1,00,000 Samples.



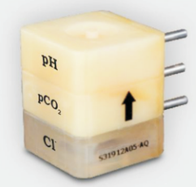
pO_2 / Glu / Lac / Hct Block



Bubble Detector



K^+ / Na^+ / iCa^{++} Block



pH / pCO_2 / Cl^- Block

BLOOD MEASUREMENT RANGE

Type	Parameter	Units	Range of indication
Blood Gas	pH		6.5 - 8.0
	pCO_2	mmHg	5 - 250
		kPa	0.7 - 33.3
	pO_2	mmHg	5 - 750
		kPa	0.7 - 100
Hematocrit	Hct	%	10 - 75
		L/L	0.10 - 0.75
Metabolites	Glu	mg/dL	20 - 700
		mmol/L	1.1 - 38.9
	Lac	mmol/L	0.30 - 20.00
		mg/dL	2.70 - 180.2
Electrolytes	Na^+	mmol/L, mEq/L	20 - 200
	K^+	mmol/L, mEq/L	0.2 - 40
	Cl^-	mmol/L, mEq/L	25 - 200
	iCa^{++}	mmol/L	0.1 - 6.0
		mEq/L	0.2 - 12.0
		mg/dL	0.4 - 24.0

URINE MEASUREMENT RANGE

Type	Parameter	Units	Range of indication
Electrolytes	Na^+	mmol/L	25 - 1000
	K^+	mmol/L	1.0 - 500
	Cl^-	mmol/L	25 - 500

PARAMETER COMBINATIONS

ABGEM	ABGM	ABGE	ABG	ELECTROLYTE							
BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
pO_2 Glu Lac Hct	pO_2 B Lac Hct	pO_2 B B Hct	pO_2 B B Hct	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B	OGLH B
K^+ Na^+ iCa^{++}	K^+ Na^+ iCa^{++}	K^+ Na^+ iCa^{++}	B B B	K^+ Na^+ B	K^+ Na^+ iCa^{++}	K^+ Na^+ iCa^{++}	K^+ Na^+ iCa^{++}	K^+ Na^+ iCa^{++}	K^+ Na^+ iCa^{++}	K^+ Na^+ B	K^+ Na^+ B
pH pCO_2 Cl^-	pH pCO_2 Cl^-	pH pCO_2 Cl^-	pH pCO_2 B	pH pCO_2 Cl^-	pH pCO_2 Cl^-	B pH Cl^-	B pH B	B B Cl^-	B B B	B B Cl^-	B B B
1	2	3	4	5	6	7	8	9	10	11	12