



KIN
DIAGNOSTICS



ABG, electrolyte & metabolites
in a single cartridge

Swiftest

Blood Gas & Chemistry Analyzer

- Fully portable
- Auto-sampling
- 12 months cartridge shelf life

SPEED MEETS QUALITY



Rapid



Reliable



Convenient

Key Features



Rapid

Fully Automated - Auto sampling
 Test Time - Less than 1 minute
 Built in printer for results



Reliable

Principle - Innovative microfluidic and micro sensor technology
 Parameters Measured - pH, pO₂, pCO₂, Na, K, Ca, Cl, Glu, Lac, Hct
 Sample types - Arterial, venous, capillary, mixed, CPB, aqueous
 Triple result guarantee - Ensured with calibrator, control and electronic simulator
 High sensitivity and accuracy
 12 months cartridge shelf-life



Convenient

Runs 50 samples with fully charged battery at the patient site
 Micro sample - 140 µl
 Patient's information acquired via barcode/QR code
 Up to 10,000 patient data storage
 4 USB ports and LAN/Wi-Fi for data management
 User friendly interface
 Zero maintenance



Procedure

1

2

3

4

Measured Parameter	Calculated Result	Calibration Unit	Reference Range
pH	6.870		[6.500-8.000]
pO ₂	600	mmHg	[10-700]
pCO ₂	112.5	mmHg	[10.0-150.0]
Na ⁺	150	mmol/L	[100-180]
K ⁺	3.7	mmol/L	[2.0-9.0]
Ca ⁺⁺	1.50	mmol/L	[0.25-2.50]

Certificates



Test Parameters

Parameter	Reportable Range	Resolution	Measurement Method
pH (pH units)	6.5 – 8.0	0.001	Potentiometric sensor
pO ₂ (mmHg)	10 – 700	0.1	Amperometric sensor
pCO ₂ (mmHg)	10 – 150	0.1	Potentiometric sensor
Na (mmol/L)	100 – 180	0.1	Potentiometric sensor
K (mmol/L)	2.0 – 9.0	0.01	Potentiometric sensor
Ca (mmol/L)	0.25 – 2.5	0.01	Potentiometric sensor
Cl (mmol/L)	65 – 140	0.1	Potentiometric sensor
Glu (mg/dL or mmol/L)	20 – 700/1.1 – 38.9	1/0.1	Amperometric sensor
Lac (mg/dL or mmol/L)	2.7 – 180.2/0.3 -20	0.1/0.01	Amperometric sensor
Hct (%PCV or Fraction)	10 – 75 /0.10 – 0.75	1%/0.01	Conductance sensor

Test Cartridges

	pH	pCO ₂	pO ₂	NA ⁺	K ⁺	Cl ⁻	Ca ⁺⁺	Hct	Glu	Lac
BG3	●	●	●							
BG8	●	●	●	●	●	●	●	●		
BG4	●	●	●							●
BG9	●	●	●	●	●	●	●	●	●	
BG10	●	●	●	●	●	●	●	●	●	●
BC4				●	●	●	●	●		

Calculated values: cH+, HCO₃-act, HCO₃-std, BE(ecf), BE(B), BB(B), ctCO₂, sO₂(est), Ca++ (7.4), AnGap, tHb(est), pO₂(A-a), pO₂(a/A), RI, pO₂/FI_{O₂}, cH+(T), pH(T), pCO₂(T), pO₂(T), pO₂(A-a)(T), pO₂(a/A)(T), RI(T), pO₂(T)/FI_{O₂}, mOsm
Storage Temperature: 2°C-8°C

Specifications

Throughput	Results in 1 minute after sample aspiration
Quality Control	3 or 5 Levels QC, External Electronic Simulator
Display	7-inch color LCD Display, 800 x 480
Interface	4 x USB 2.0 host, 1 x RS232, WLAN
Input device	Touch screen and barcode scanner
Power supply	100~240VAC, 50/60Hz
Battery	5000mAh rechargeable lithium-ion battery, 50 samples continuous testing
Dimensions (W*H*D)	238 x 153 x 310 mm
Operation Environment	10-31; %RH: 25%-80%; 70-106.6 KPa
Weight	3.65 Kg

About KIN

KIN Diagnostics is a company specialized in Point-of-Care products.

Founded in 2008, guided by the philosophy of 'Transforming Healthcare', KIN Diagnostics aims to transform the conventional methods of diagnostic testing by providing point-of-care solutions to ensure patients receive faster diagnosis, treatment & therapeutic management. The use of portable readers support physicians and medical staff to accurately achieve real-time, lab-quality diagnostic results within minutes rather than hours. We believe that affordable and accessible healthcare is the key to growth and well-being of people and the economy. We continue to strive to become India's No. 1 Point-of-Care Testing Solution Provider by our strong technical expertise, quality products and support to customers.

Our Point of Care Product Range

1. Swiftest iChroma II Immunochemistry Analyzer



Principle: Immunofluorescence
High throughput patient testing: 30 test/hr
Widest test menu in a single device: 44 parameters across 8 therapeutic test profiles
Sample type: Whole blood/serum/plasma/urine/faeces/throat swab

2. Swiftest Dry Clinical Chemistry and Electrolyte Analyzer



Principle: Photometric system
Widest test menu in a single device: 23 tests with 9 panels
Sample type: Whole blood/plasma/serum

3. Swiftest Nephstar Protein Analyzer



Principle: Fixed-time immunonephelometry
Widest test menu in a single device: 32 assays available
Sample type: Whole blood/capillary blood

KIN DIAGNOSTICS

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