

Test Cartridges

Parameter	· BG3	· BG3-N	· BG8	· BG8-N	· BG10	· BG10-N	· BE5
pH	●	●	●	●	●	●	●
pO ₂	●	●	●	●	●	●	●
pCO ₂	●	●	●	●	●	●	●
K ⁺			●	●	●	●	●
Na ⁺			●	●	●	●	●
Cl ⁻			●	●	●	●	●
Ca ²⁺			●	●	●	●	●
Hct			●	●	●	●	●
Glu					●	●	
Lac					●	●	
tCO ₂ [*]	●	●	●	●	●	●	●
cHgb [*]	●	●	●	●	●	●	●
cHCO ₃ ^{-*}	●	●	●	●	●	●	●
BE(ecf) [*]	●	●	●	●	●	●	●
BE(b) [*]	●	●	●	●	●	●	●
cSO ₂ [*]	●	●	●	●	●	●	●
AG [*]	●	●	●	●	●	●	●

* Calculated parameter

Measured Parameter

Parameter		Calculated Parameter		
Na ⁺	pCO ₂	pH(T)	cH ⁺	cH ⁺ (T)
K ⁺	pO ₂	pCO ₂ (T)	cHCO ₃	cBase(B) _o
Cl ⁻	Hct	cBase(Ecf) _c	cBase(Ecf,ox) _c #	cHCO ₃ (P, st) _o #
Ca ²⁺	Glu	cBase(B,ox) _o #	ctCO ₂ (B)	ctCO ₂ (P)
pH	Lac	pO ₂ (T)	pO ₂ (A)	pO ₂ (A-a)
Li #	Mg #	pO ₂ (a/A)	ctO ₂ (B)	RI
tCO ₂ #	cHgb	pO ₂ (a)/FO ₂ (l) #	pO ₂ (a/A, T)
		pO ₂ (A-a, T) #	pO ₂ (a, T)/FO ₂ (l) #	RI(T)
		cCa ²⁺ (7.4)	Anion Gap(K ⁺) _c	cSO ₂
		AG	FO ₂ (l) #

Under development

Under development

"Touching Human Lives Through Innovation"

SG1 Blood Gas & Electrolyte Analyzer



A handheld blood analyzer that delivers lab-quality, diagnostic results in minutes.

Matrix Labs Diagnostics Private Ltd.,

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Product features



Easy to use

Testing can be performed in 3 simple steps at the patient's side with only 2 or 3 drops of whole blood.



Handheld portability

Lightweight with built-in battery allowing diagnosis at the point of care, patient side, out in the field or exam room.



Fast results

Get accurate results in 4 minutes at the patient's side to enable rapid decision-making, and optimize patient-care.



Multi-parameter cartridge

Single-use test cartridges a broad menu of tests on a single, portable platform. Each test card has a unique combination of biosensors to suit a wide range of clinical needs.

Use Cases



Emergency Treatment



ICU



Oncology



Anesthesiology Department



Gynecology and Obstetrics



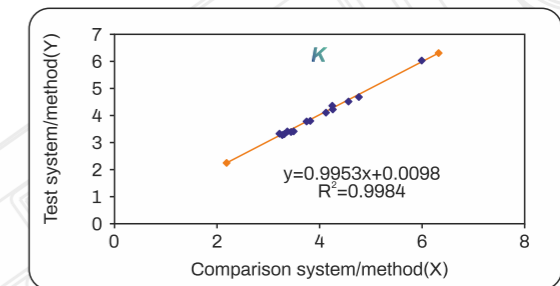
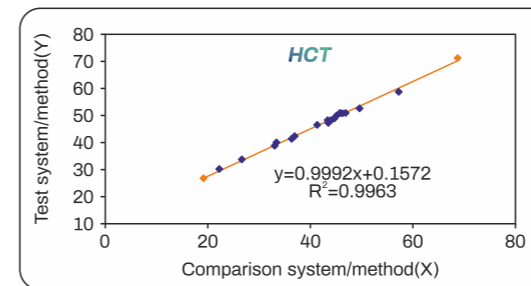
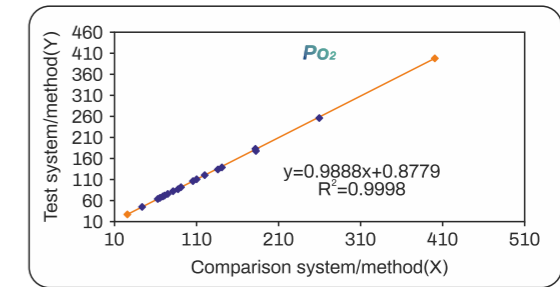
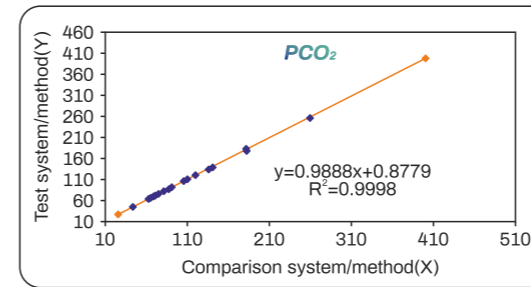
Clinical Laboratory

Test Cartridges

Sample	Whole blood / Capillary
Test Time	50s
Display	4.3 IPS touch screen
Weight	600g
Battery	3.7V, 5000mAh Up to 55 samples in a row

Sample volume	100 µl
Connectors	Type c
Printer	Built-in thermal printer
Connection	WiFi, Direction LIS (HL7)
Operating temperature	Temperature: 5 - 32°C; Relative humidity ≤85%;

Reagent performance analysis



Easy 3 steps operation

Regular Test Cartridge



01 Add sample

Add 2 or 3 drops of whole blood into cartridge



02 Insert cartridge

Insert the cartridge into the analyzer



03 Read result

Read the test report in 4 minutes

Auto Aspiration Cartridge



01 Insert syringe

Flat insert the syringe into the fill port of test cartridge



02 Insert cartridge

Insert cartridge into the analyzer



03 Read result

Read the test report in 4 minutes