

Alere™

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Introducing

epoc®

BLOOD ANALYSIS

A cost-effective point of care solution for the entire healthcare enterprise.

Affordable.

Reliable.

Bedside.



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**ACCURATE AND IMMEDIATE
BEDSIDE RESULTS WITHOUT
SPENDING MORE.**

The epoc® point of care blood analysis system is the first and only wireless bedside testing solution to use Smart Card technology. This breakthrough platform provides state-of-the-art lab results directly to a hand-held PDA. It's easy to use. It requires no refrigeration of consumables. It interfaces with your facility's existing wireless system. And in most cases it does it all for less than you're spending now waiting for lab results.

The quality of test results from the epoc system is equal to or better than the results generated by traditional blood gas or chemistry analyzers run in a laboratory. How? Because, once fresh blood is passed across biosensors on the epoc test card, results are sent to your PDA in just 30 seconds. Other systems often require more time between sample acquisition, sample entry and analysis and can result in sample degradation and possibly compromised results.

**BETTER TECHNOLOGY EQUALS
LOWER COST.**

epoc is significantly more cost effective to implement and use than other POC systems. With epoc you will easily attain the recognized benefits of an improved critical care process without theoretical implementation models that typically demand labor reductions and other operational changes to meet financial objectives.

FAST AND EASY.

Unlike other systems, epoc test cards have no refrigerated storage requirements. The Cards can be placed anywhere, be it near the patient's bedside with the epoc Reader, at the nurses' station, in the operating suite – whenever and wherever it's most convenient. All that's required is a 100 microliter blood sample.

epoc REDUCES ERRORS.

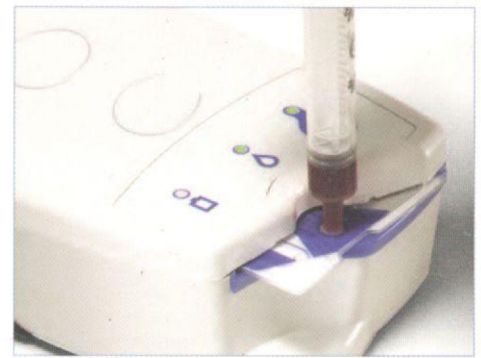
Immediate introduction of a patient's blood sample into an epoc test card minimizes pre-analytical sample handling errors. And because the complete test record is captured at the point of care, post-analytical errors are also reduced. The epoc system features bar code scanning for patient ID, operator ID and test card information – minimizing data entry and transcription errors. Automated monitoring of all steps in the testing process assures error detection and reduction.

**PERFECT FOR RESPIRATORY
THERAPISTS & CRITICAL CARE
PROVIDERS.**

The epoc BGEM™ test card is a blood gas and electrolyte panel consisting of the following:

- measured analytes:
pH, pCO₂, pO₂, Na⁺, K⁺, Ca⁺⁺, Glu, Lac, Hct
- calculated values:
HCO₃⁻, TCO₂, Base Excess, cSO₂, cHgb

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epoc BLOOD ANALYSIS SYSTEM

epoc test cards are single-use bar code identified units containing a biosensor array, calibration solution and fluidics. Test cards generate electrochemical assay signals and quality control signals which are read by detectors in the epoc Reader.

Upon insertion of a test card, the epoc Reader scans the card's bar code, initiates sensor calibration and provides thermal control of the assay. It reads electrochemical signals and quality control signals from the test card and converts them to a secure wireless transmission format.

The epoc mobile computer, a customized PDA, can receive transmitted signals from one or more epoc Readers. The PDA associates the test results and reader ID with a patient ID and user ID—scanned or manually entered – to complete the test record. The complete test record is wirelessly transmitted to the epoc Data Manager for further compliance reporting, analysis and system management.

epoc FITS YOUR ORGANIZATION TODAY-AND TOMORROW.

epoc easily integrates into your clinical care process. With its small size and wireless capability, epoc keeps caregivers at the bedside where they are needed most, not running back and forth between a distant workstation or laboratory. It seamlessly integrates into your existing wireless network and easily interfaces into your hospital's LIS/HIS system. Additional epoc readers can be placed where needed, and can interact with an unlimited number of epoc PDAs.

The epoc system also has an evolving test menu and will have numerous panels available in the near future. Its completely modular – which allows customized implementation solutions to fit the specific needs of any clinical workflow throughout the organization.



THE EPOC BLOOD ANALYSIS SYSTEM

- Accurate, bedside results in about 30 seconds
- Room temperature storage of test cards
- Barcoded test cards for quality and inventory management
- Automated, integrated calibration and quality checks
- Wireless data capture and transmission

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THE epoc SYSTEM TEST MENU

epoc BGEM Test Card

Measurement Parameters	Units	Range
pH	pH units	6.5 – 8.0
pCO ₂	mmHg	5 – 250
pO ₂	mmHg	5 – 750
Na+	mmol/L	85 – 180

K+	mmol/L	15 – 12
Ca++	mmol/L	0.25 – 4
Glu	mg/dL	20 – 700
Lac	mmol/L	0.30 – 20.00
Hct	%PCV	10 – 75

Calculated Parameters	Units	Range
cTCO ₂	mmol/L	1 – 85
cHCO ₃ ⁻	mmol/L	1 – 85
BE(ecf)	mmol/L	-30 – +30
BE(b)	mmol/L	-30 – +30
cSO ₂	%	0 – 100
cHgb	g/dL	3.3 – 25

AN EXPANDING PRODUCT ARRAY

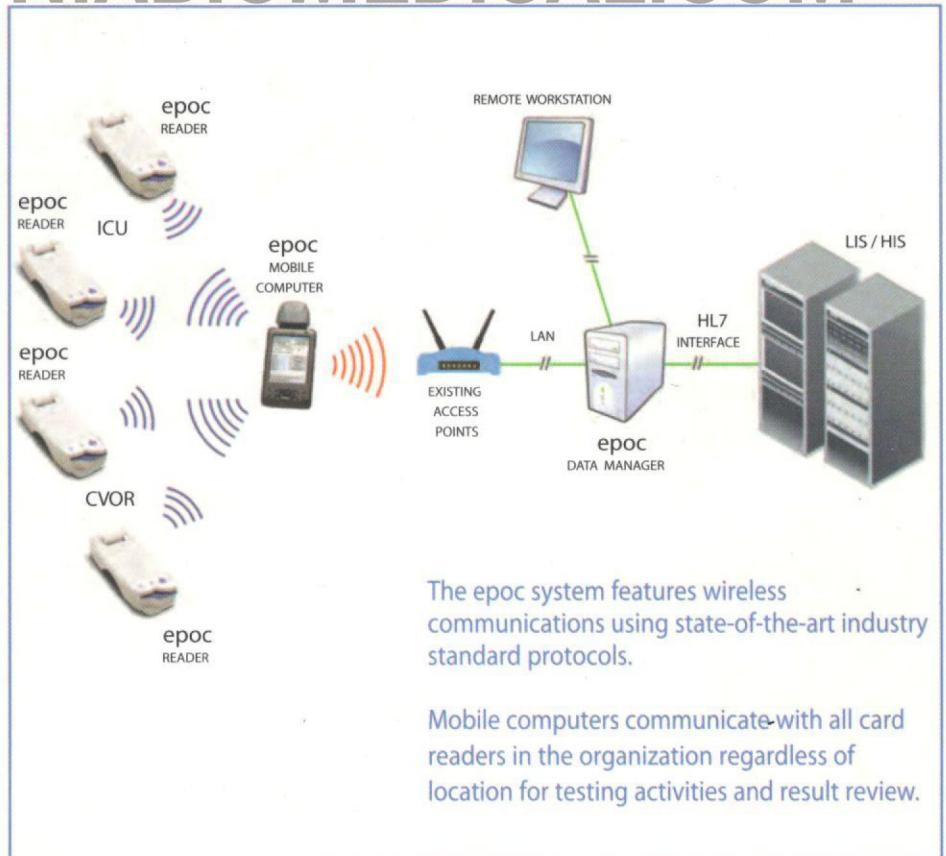
epoc test cards currently in development include additional blood chemistries, hemostasis, hematology and immunoassay panels.

WIRELESS COMMUNICATION MEANS REAL-TIME RESULT REPORTING.

The epoc system features wireless communications using state-of-the-art industry standard protocols. Mobile computers communicate with all card readers in the organization regardless of location for testing activities and result review. Test data and inventory information is transmitted effortlessly in real time to the epoc Data Manager and into the hospitals' clinical systems (LIS/HIS).

Other point of care and near-patient systems require physical infrastructure (wiring, data transfer stations, information hubs, etc.) as well as additional procedural steps for successful data exchange. epoc's wireless capabilities allow immediate implementation to any area of the healthcare enterprise— at any time – without the cost and delays that infrastructure expansions typically require.

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Corporate Office:
Alere Medical Pvt. Ltd.
 No: 404, 4th Floor, BPTP Park Centra, NH-8,
 Opp. 32nd Milestone, Gurgaon-122 001, Haryana, India
 Office No.: +91-124-4569000 • Fax : +91-124-4569011
 E-mail: india.custsupport@alere.com
www.alere.com

For a free demo, dial
1800-102-9995
 Or Write to...
patientcare.india@alere.com

Delhi :
 B-100, 1st Floor,
 Naraina Industrial Area, Phase - 1,
 New Delhi 1 110 028 (INDIA)
 Tel. : 011-45640886, 25897644
 Fax. : 011-45640877

Mumbai :
 M#002, Gateway Plaza,
 Co-op Premises Society Ltd.
 Hiranandani Gardens,
 Powai, Mumbai-400 076
 Tel.- 022-40154093

Kolkata :
 173, Ground Floor,
 C.I.T. Scheme IVM,
 Beliaghata,
 Kolkata - 700010
 Tel. : 033-65361037

Chennai :
 SB Complex
 W-115, Third Avenue,
 1st Floor, Annanagar,
 Chennai - 600040
 Tel.: 044-42612517, 42612518