

Accelerating Patient Care Decision-Making:

The i-STAT[®] System: Comprehensive Point-of-Care Testing



The *i-STAT* System is an advanced handheld diagnostic tool that provides real-time, lab-quality results within minutes.

 **Abbott**
A Promise for Life

The i-STAT System:

A Wide Range of Cartridges for Diagnostic Testing*

Providing Lab-Quality Results in Minutes

Chemistry

Results in 2 minutes



CHEM8+
03P91-25
Sodium (Na)
Potassium (K)
Chloride (Cl)
Ionized Calcium (iCa)
TCO₂[†]
Glucose (Glu)
Urea Nitrogen (BUN)/Urea
Creatinine (Crea)
Anion Gap[†] (Agap)
Hematocrit (Hct)
Hemoglobin[†] (Hgb)


Crea
03P84-25
Creatinine (Crea)

G
03P83-25
Glucose (Glu)



Blood Gas

Results in 2 minutes




G3+
03P78-25
pH
PCO₂
PO₂
TCO₂[†]
HCO₃[†]
BE_{ecf}[†]
sO₂[†]

CG4+
03P85-25
pH
PCO₂
PO₂
TCO₂[†]
HCO₃[†]
BE_{ecf}[†]
sO₂[†]
Lactate

Cardiac Markers

Results in 10 minutes Results in 5 minutes




cTnI
03P90-25
Troponin I

BNP
03P93-25
BNP

CK-MB
03P92-25
CK-MB

Coagulation

Results in ≤5 minutes Results in <17 minutes



PT/INR
03P89-24
Prothrombin Time

Celite ACT
03P86-25
Celite ACT

Kaolin ACT
3P87-25
Kaolin ACT

Electrolytes and Hematology

Results in 2 minutes



E3+
03P82-25
Sodium (Na)
Potassium (K)
Hematocrit (Hct)
Hemoglobin[†] (Hgb)


EC4+
03P81-25
Sodium (Na)
Potassium (K)
Glucose (Glu)
Hematocrit (Hct)
Hemoglobin[†] (Hgb)

6+
03P80-25
Sodium (Na)
Potassium (K)
Chloride (Cl)
Urea Nitrogen (BUN)/Urea
Glucose (Glu)
Hematocrit (Hct)
Hemoglobin[†] (Hgb)



Blood Gas, Electrolytes and Hematology

Results in 2 minutes



CG8+
03P88-25
Sodium (Na)
Potassium (K)
Ionized Calcium (iCa)
Glucose (Glu)
pH
PCO₂
PO₂
TCO₂[†]
HCO₃[†]
BE_{ecf}[†]
sO₂[†]
Hematocrit (Hct)
Hemoglobin[†] (Hgb)

EG7+
03P76-25
Sodium (Na)
Potassium (K)
Ionized Calcium (iCa)
pH
PCO₂
PO₂
TCO₂[†]
HCO₃[†]
BE_{ecf}[†]
sO₂[†]
Hematocrit (Hct)
Hemoglobin[†] (Hgb)

EC8+
03P79-25
Sodium (Na)
Potassium (K)
Chloride (Cl)
pH
PCO₂
Urea Nitrogen (BUN)/Urea
Glucose (Glu)
TCO₂[†]
HCO₃[†]
BE_{ecf}[†]
Anion Gap[†] (Agap)
Hematocrit (Hct)
Hemoglobin[†] (Hgb)

EG6+
03P77-25
Sodium (Na)
Potassium (K)
pH
PCO₂
PO₂
TCO₂[†]
HCO₃[†]
BE_{ecf}[†]
sO₂[†]
Hematocrit (Hct)
Hemoglobin[†] (Hgb)

Intended Use

Lactate

The test for lactate, as part of the *i-STAT System*, is intended for use in the *in vitro* quantification of lactate in arterial, venous, or capillary whole blood. The *i-STAT lactate test* is useful for (1) the diagnosis and treatment of lactic acidosis in conjunction with measurements of blood acid/base status, (2) monitoring tissue hypoxia and strenuous physical exertion, and (3) diagnosis of hyperlactatemia.

cTnI

The *i-STAT cardiac troponin I (cTnI)* test is an *in vitro* diagnostic test for the quantitative measurement of cardiac troponin I (cTnI) in whole blood or plasma. Measurements of cardiac troponin I are used in the diagnosis and treatment of myocardial infarction and as an aid in the risk stratification of patients with acute coronary syndromes with respect to their relative risk of mortality.

CK-MB

The *i-STAT CK-MB* test is an *in vitro* diagnostic test for the quantitative measurement of creatine kinase MB mass in whole blood or plasma samples. CK-MB measurements can be used as an aid in the diagnosis and treatment of myocardial infarction (MI).

BNP

The *i-STAT BNP* test is an *in vitro* diagnostic test for the quantitative measurement of B-type natriuretic peptide (BNP) in whole blood or plasma samples using EDTA as the anticoagulant. BNP measurements can be used as an aid in the diagnosis and assessment of the severity of congestive heart failure.

ACT Kaolin

The *i-STAT Kaolin Activated Clotting Time (Kaolin ACT)* test is an *in vitro* diagnostic test that uses fresh, whole blood, and is used to monitor high-dose heparin anticoagulation frequently associated with cardiovascular surgery.

ACT Celite®

The *i-STAT Celite Activated Clotting Time (Celite ACT)* test is an *in vitro* diagnostic test that uses fresh, whole blood, and is useful for monitoring patients receiving heparin for treatment of pulmonary embolism or venous thrombosis, and for monitoring anticoagulation therapy in patients undergoing medical procedures such as catheterization, cardiac surgery, surgery, organ transplant, and dialysis.

PT/INR

The *i-STAT PT*, a prothrombin time test, is useful for monitoring patients receiving oral anticoagulation therapy such as Coumadin® or warfarin.

See CTI sheets for full details at abbottpointofcare.com

The i-STAT System provides diagnostic testing in four easy steps



Step 1: Insert two or three drops of blood into the cartridge



Step 2: Insert the cartridge into the handheld



Step 3: View the results on the handheld screen within minutes



Step 4: Upload information automatically into the LIS/HIS

■ Granted Waived Status for the *i-STAT 1 System* with lithium and sodium heparin whole blood venous samples collected in evacuated (green-top) tubes. CLIA Waived status is country dependent. Please check with your local regulatory agency for information.

*For *in vitro* diagnostic use only.

[†]Calculated

The i-STAT® System:

Leverage the power of a single, integrated point-of-care testing solution

Emergency Department

Critical Care

Radiology/Imaging Centers

The fully automated *i-STAT* System offers a broad menu of tests for diagnostic and treatment indicators related to disease state management and clinical practice guidelines. Using just 2 or 3 drops of blood, the system provides time-sensitive tests at the patient's side in just minutes.

NICU/PICU

Cardiology

Renal units/Dialysis

Benefits of the i-STAT System

- **Real-time, lab-quality results within minutes** provide accurate results for a wide range of tests right in patient care settings
- **Supports a patient-centric approach to health care** that accelerates patient care decision-making by reducing the time needed to get vital information to clinicians
- **Broad and expanding range of tests with one platform** is ideal for meeting various medical practice needs
- **Optimizes system efficiency** by eliminating process steps and handoffs to help reduce the incidence of errors and promote patient safety



i-STAT System:

- A *i-STAT* handheld
- B Printer
- C Downloader
- D Simulator



For *in vitro* diagnostic use only.

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To learn more about how our technology, process, and service innovations can help your facility meet its goals, contact your *i-STAT* or Distribution Representative, or visit www.abbottpointofcare.com.

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