Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies, redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions. We are also leading in the Internet of Things space through, among others, our Smart Home and Digital Health initiatives.

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CT-LABGEO IB10 4.5-150805-EN

Thermo Fisher Scientific is the global collaboration partner of Samsung for commercialization and co-development of innovative solutions in the POC testing market. Together we provide excellent expertise in clinical diagnostics to fulfill customer needs and improve patient management.

Samsung Smart Blood Analyzer

IMMUNOASSAY ANALYZER

Samsung LABGEO HC10
HEMATOLOGY ANALYZER

Samsung LABGEO PT10
CLINICAL CHEMISTRY ANALYZER

Samsung
LABGEO IB10
Take Your Laboratory Wherever You Want

SAMSUNG

SAMSUNG

SAVE TIME,
SAVE LIVES

SMART SOLUTION
PROVIDER

Samsung LABGEO [IB10]

High Performance Portable
Immunoassay Analyzer

Fast   Easy   Accurate

The Samsung LABGEO [IB10] is a portable, reliable and easy-to-use immunoassay analyzer for *in-vitro* determinations and provides medical professionals with rapid and accurate test results in emergency care settings where near patient testing is critical.

FAST

Fast & Fully Automated

Rapid test results in 20 minutes
Fully automated centrifugation inside the analyzer

Whole Blood Use

No sample pretreatment required for plasma separation

Multiple Analytes Tested in a Single Run

No additional time required to test multiple analytes
Up to three analytes tested in a single run – One run,
Three test results in 20 minutes

EASY

Simple & Easy-to-Use

Simple, LCD touch screen interface with clear,
step-by-step instruction
Multiple language support

Convenient & User Friendly

One step convenient testing method
Test Discs stable at room temperature for 30-days
Built-in thermal printer
Multiple external devices available

Portable

Easy to move (Compact size, Lightweight)
Optional battery operation
Accurate testing when and where it's needed

ACCURATE

Excellent Precision and Correlation

Excellent assay performance assists medical professionals in the diagnosis and treatment of critically ill patients

	Troponin I	CK-MB	Myoglobin	NT-proBNP	D-Dimer	Beta-hCG	TSH
Measurable Range	0.05 ~ 30 ng/mL	2.0 ~ 60 ng/mL	30.0 ~ 500 ng/mL	30 ~ 5000 pg/mL	100 ~ 4000 ng/mL (FEU)	4~400 mIU/mL	0.11~120.00 mIU/L
Upper Reference Limit (URL)	0.10 ng/mL (99 %ile)	8.58 ng/mL	99.84 ng/mL	< 75yrs = 125 pg/mL ≥ 75yrs = 450 pg/mL	446.8 ng/mL (FEU)	5.42 mIU/mL	0.25~3.85 mIU/L (euthyroid reference nterval)
Precision — Within-run CV	9.4 ~12.6%	9.0 ~11.2%	10.8 ~ 12.7%	8.5 ~ 10.2%	6.7 ~ 8.6%	12.4~13.4%	5.8~11.2%
Precision — Total CV	10.1 ~13.0 %	10.3 ~ 11.5%	12.1 ~ 12.7%	9.0 ~10.9%	6.7 ~ 9.0%	12.7~13.8%	6.0~11.4%

* Each laboratory should establish a reference range that represents the patient population that is to be evaluated.

Method Comparisons Show High Correlation with Central Laboratory Systems

Correlation Coefficients above 0.90 and method comparison slopes near unity compared to central laboratory systems

Figure 1. Method Comparison – LABGEO IB NT-proBNP and Ortho VISTA® NT-proBNP
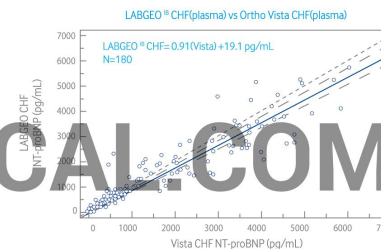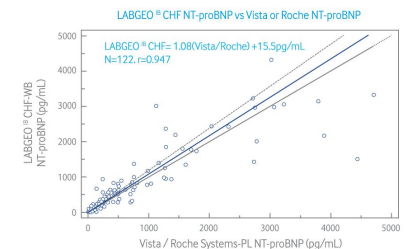

LABGEO® CHF(plasma) vs Ortho Vista CHF(plasma)
LABGEO® CHF= 0.91(Vista) +19.1 pg/mL
N=180

Figure 2. Method Comparison – LABGEO IB CHF NT-proBNP and Ortho VISTA®/Roche NT-proBNP

LABGEO® CHF NT-proBNP vs Vista or Roche NT-proBNP
LABGEO® CHF= 1.08(Vista/Roche) +15.5pg/mL
N=122. r=0.947

The Samsung LABGEO IB10 Analyzer produced rapid and accurate measurement of both Troponin I and NT-proBNP in whole blood and plasma and showed high correlation with the central laboratory system, the Siemens Dimension Vista™ platform

Table 3. Method Comparison - LABGEO IB TnI and Siemens Dimension Vista™ cTnI*

Comparison	N	Intercept (ng/mL)	Slope	Spearman rank correlation
LABGEO IB WB vs. VISTA plasma	36	-0.070	0.868	0.911
LABGEO IB plasma vs. VISTA plasma	36	-0.084	0.787	0.915
LABGEO IB WB vs. LABGEO IB plasma	36	0.006	0.993	0.964

Table 4. Method Comparison - LABGEO IB NT-proBNP and Siemens Dimension Vista™ NT-proBNP*

Comparison	N	Intercept (pg/mL)	Slope	Spearman rank correlation
LABGEO IB WB vs. VISTA plasma	47	-6.6	1.028	0.938
LABGEO IB plasma vs. VISTA plasma	47	19.1	0.881	0.926
LABGEO IB WB vs. LABGEO IB plasma	47	-9.5	1.062	0.978

* A study was performed by Dr. Steven Kazmierczak at Oregon Health and Science University, OHSU (Portland, Oregon) AACC 2013 poster Kazmierczak, S. (suppl.) pg S2-S310 - B221

AVAILABLE TEST MENU

Product Image	Product Name	Model #
	Samsung LABGEO IB Troponin I Test Troponin I	IVR-IB05
	Samsung LABGEO IB CHF Test NT-proBNP	IVR-IB06
	Samsung LABGEO IB CHF Plus Test Troponin I / NT-proBNP	IVR-IB07
	Samsung LABGEO IB Cardiac 3-in-1 Panel Test Troponin I / CK-MB / Myoglobin	IVR-IB08
	Samsung LABGEO IB D-Dimer Test D-Dimer	IVR-IB09
	Samsung LABGEO IB SOB Cardiac 3 Panel Test Troponin I / NT-proBNP / D-Dimer	IVR-IB11
	Samsung LABGEO IB beta-hCG Test beta-hCG	IVR-IB12
	Samsung LABGEO IB TSH Test TSH	IVR-IB15

Rapid Point-of-Care (POC) Immunoassay

Troponin I Test
Troponin I

For the Quantitative Determination of Troponin I (cTnl) in Lithium Heparin Human Whole Blood and Plasma

CHF Test
NT-proBNP

For the Quantitative Determination of N-terminal pro-brain natriuretic peptide (NT-proBNP) in EDTA and Lithium Heparin Human Whole Blood and Plasma

CHF Plus Test
Troponin I / NT-proBNP

For the Quantitative Determination of Troponin I (cTnl) and N-terminal pro-brain natriuretic peptide (NT-proBNP) in Lithium Heparin Human Whole Blood and Plasma

Cardiac 3-in-1 Panel Test
Troponin I / CK-MB / Myoglobin

For the Quantitative Determination of Troponin I (cTnl), CK-MB, Myoglobin in Lithium Heparin Human Whole Blood and Plasma

D-Dimer Test
D-Dimer

For the Quantitative Determination of D-Dimer in Lithium Heparin and Citrated Human Whole Blood and Plasma

SOB Cardiac 3 Panel Test
Troponin I / NT-proBNP / D-Dimer

For the Quantitative Determination of Troponin I (cTnl), NT-proBNP and D-Dimer in Lithium Heparin Human Whole Blood and Plasma
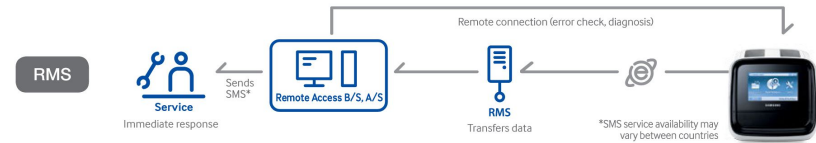
SIMPLE ONE STEP PROCEDURE

Touch 'New Analysis' → Insert Test Reagent → View the Results

KEY FEATURES

Analyzer (Size / Weight)	177(W) x 330(D) x 177(H) mm / 2.4 kg
Cardiac Markers	Troponin I, NT-proBNP, D-Dimer, CK-MB, Myoglobin
Product Menu	Troponin I Test, CHF Test, CHF Plus Test, 3-in-1 Test, D-dimer Test, SOB Cardiac3 Panel Test, Beta-hCG Test, TSH Test
Sample Volume	500μl Whole Blood or Plasma
Options	Battery, Barcode Scanner, WIFI USB Dongle, EQC Disc
IT Solution	Samsung LABGEO Data Manager
Proactive Service	RMS (Remote Management System)

SMART HEALTHCARE

Proactive Customer Service

RMS (Remote Management System) provides real-time service through equipment status checks and immediate response to errors from a service team

RMS

Service — Immediate response
Sends SMS*
Remote Access B/S, A/S
RMS — Transfers data
Remote connection (error check, diagnosis)
*SMS service availability may vary between countries

IT Solution

Connects to HIS (Hospital Information System), PC, and Mobile phone / device for efficient database management

Samsung LABGEO Data Manager

Transfer test results to LABGEO PC Data Manager
Transfers test results to build a database

PC Application
Automatically update software, store, show, print and backup the results.

Deliver test results via text message using Smartphone

Mobile Application
Notify analysis completion, error and critical result occurrence, browse patient result, and LABGEO IB10 information.

HIS (LIS/EMR System)
Support HIS standard protocol (HL7, ASTM, POCT1-A): HIS sends an order to LABGEO IB10 and the device backs up the results to HIS

Support Multiple Devices

Multiple external devices available (WIFI USB Dongle, USB, Barcode Scanner, and LAN Connectivity)

Barcode Scanner
WIFI USB Dongle
USB
LAN Connectivity