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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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 LABGEO HC10
HEMATOLOGY ANALYZER

Samsung LABGEO PT10
CLINICAL CHEMISTRY ANALYZER

Samsung Smart Blood Analyzer
IMMUNOASSAY ANALYZER

Samsung
LABGEO IB10
Take Your Laboratory Wherever You Want

SAMSUNG

SAMSUNG

SAVE TIME,
FAST DIAGNOSIS.
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 instructions
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	PCT
Measuring Range		0.05 - 30 ng/mL	2 - 60 ng/mL	30 - 500 ng/mL	30 - 5000 pg/mL	100 - 4000 ng/mL (FEU)	4 - 400 mIU/mL	0.11~ 120 mIU/L	0.08 - 10 µg/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 interval)	0.11 µg/L
Precision	Within-run CV	9.4 - 12.6%	9 - 11.2%	10.8 - 12.7%	8.5 - 10.2%	6.7 - 8.6%	12.4 - 13.4%	5.8 - 11.2%	11.2 - 14.3%
	Total CV	10.1 - 13%	10.3 - 11.5%	12.1 - 12.7%	9 - 10.9%	6.7 - 9%	12.7 - 13.8%	6 - 11.4%	11.9 - 14.6%

* It is recommended that 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

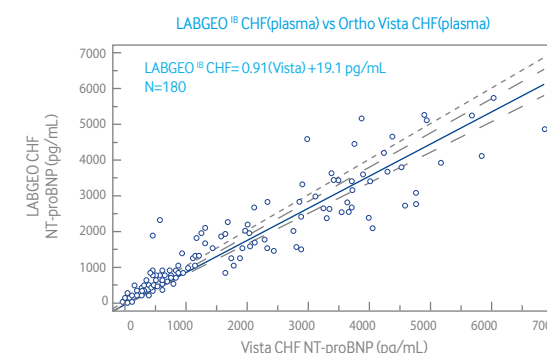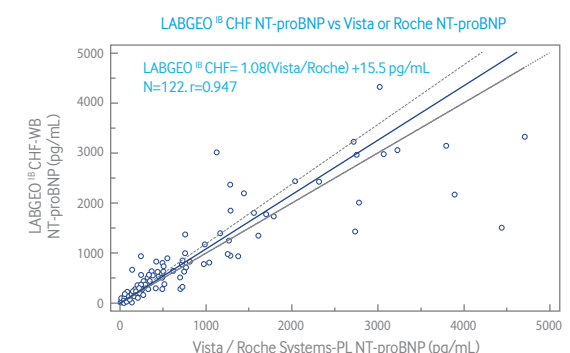Figure 1. Method Comparison – LABGEO IB NT-proBNP and Ortho VISTA® NT-proBNP

LABGEO® CHF(plasma) vs Ortho Vista CHF(plasma)

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

Figure 2. Method Comparison – LABGEO® 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) +15.5 pg/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® WB vs. VISTA plasma	36	-0.070	0.868	0.911
LABGEO® plasma vs. VISTA plasma	36	-0.084	0.787	0.915
LABGEO® WB vs. LABGEO® 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® WB vs. VISTA plasma	47	-6.6	1.028	0.938
LABGEO® plasma vs. VISTA plasma	47	19.1	0.881	0.926
LABGEO® WB vs. LABGEO® 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 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	Thyroid-stimulating hormone (TSH)	IVR-IB15
Samsung IB B·R·A·H·M·S PCT	Procalcitonin (PCT)	IVR-IB18

INTENDED USE OF TEST MENU

Troponin I Test
Troponin I

The Samsung LABGEO IB Troponin I Test is for the quantitative determination of Troponin I (cTnI) in lithium heparin human whole blood and plasma. cTnI determinations aid in the diagnosis of myocardial infarction (MI) and patients with non-ST-segment elevation (NSTEMI) acute coronary syndromes (ACS).

CHF Test
NT-proBNP

The Samsung LABGEO IB CHF Test is for the quantitative determination of N-terminal pro-brain natriuretic peptide (NT-proBNP) in EDTA and lithium heparin human whole blood and plasma. NT-proBNP determinations aid in the diagnosis and management of Congestive Heart Failure (CHF).

CHF Plus Test
Troponin I / NT-proBNP

The Samsung LABGEO IB CHF Plus Test is for the quantitative determination of Troponin I (cTnI) 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

Samsung LABGEO IB Cardiac 3-in-1 Panel Test is for the quantitative determination of Troponin I (cTnI), Creatine Kinase isoform MB (CK-MB), Myoglobin in lithium heparin human whole blood and plasma.

D-Dimer Test
D-Dimer

The Samsung LABGEO IB D-Dimer Test is for the quantitative determination of D-Dimer in lithium heparin and citrated human whole blood and plasma. D-Dimer determinations aid in the quantitative assessment and evaluation of patients presenting with clinical symptoms of Venous Thromboembolism (VTE) including severely evolving disseminated intravascular coagulation (DIC), pulmonary embolism (PE) and deep vein thrombosis (DVT).

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

The Samsung LABGEO IB SOB Cardiac 3 Panel Test is for the quantitative determination of Troponin I (cTnI), NT-proBNP and D-Dimer in lithium heparin human whole blood and plasma. The SOB (Shortness of Breath) test panel is intended as an aid in the differential diagnosis and prognostic assessment of patients with symptoms of chest pain, typically accompanied by respiratory distress.

beta-hCG Test
beta-hCG

The Samsung LABGEO IB beta-hCG Test is for the quantitative determination of human chorionic gonadotropin in lithium heparin human blood and plasma.

TSH Test
Thyroid-stimulating hormone (TSH)

The Samsung LABGEO IB TSH Test is for the quantitative determination of Thyorid-stimulating hormone in lithium heparin human whole blood and plasma.

B·R·A·H·M·S PCT
Procalcitonin (PCT)

The Samsung IB B·R·A·H·M·S PCT is for the quantitative determination of Procalcitonin in EDTA whole blood or plasma to aid in the early detection and differential diagnosis of clinically relevant bacterial infections to assess the degree of severity and to prognosticate the outcome of systemic bacterial infection, sepsis, severe sepsis, and septic shock. Also, this test aids in the monitoring of antibiotic treatment within the measuring range and in the assessment of successful antibiotic treatment within the measuring range.

*Please refer to the insert of each test menu for the complete intended use statement.
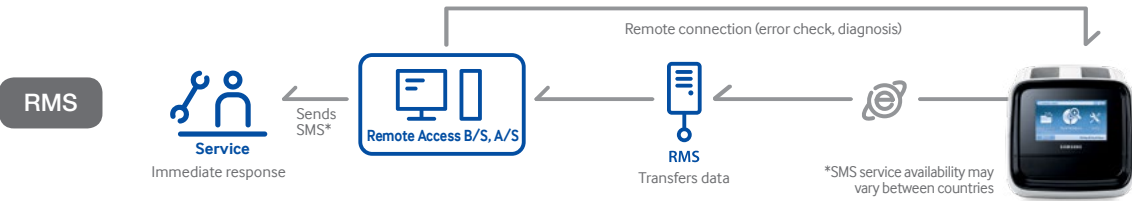
SIMPLE ONE STEP PROCEDURE

| 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
Sample Volume	500μl Whole Blood or Plasma
Display	4.3-inch TFT LCD
Memory	5,000 reports for regular tests
Printer	Built-in Thermal Printer
Options	Battery, EQC Disc
Proactive Service	RMS (Remote Management System)
IT Solution	Samsung LABGEO Data Manager, Samsung IVD Mobile Application

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

Remote connection (error check, diagnosis)

RMS

Service
Immediate response

Sends SMS*

Remote Access B/S, A/S

RMS
Transfers data

*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