

www.boditech.co.kr

Immunofluorescence Assay System

ichromax™

*The next generation portable diagnostics system:
Over 20 parameters available!*

ichromα™

Quantitative test results on the spot

ichromα™ is an immunofluorescence-based diagnostics system to screen major life-style related diseases such as cardiac diseases, cancers, diabetes, infection. diseases and hormonal disorders.

ichromα™ provides quantitative test results in 3-15 minutes. It enables clinicians and lab technicians to run an individual test without mandating additional visits by patients.

Accurate & Fast

Reliable quantitative results in 3-15 min.

Easy to Use

With built-in calibration

Versatile & Affordable

Over 20 parameter available



ichromα™

Specification: i-CHROMA™

Dimensions: 250 x 185 x 80 mm

Weight: 1.2 kgs

Power adaptor: 12V DC., 3A

Display: LCD (16 x 4 character)

Interface: RS232 (Serial port)

Key pads: 5 function keys

LIS/HIS connection via PC

Thermal printer (optional)

Easy calibration with a micro-chip

ichromα™ DUO

Specification: i-CHROMA™ DUO

Dimensions: 431.5 x 340 x 180 mm

Weight: 3.7 kgs

Power: 100-240V AC, 50/60Hz, 3A

Built-in Computer with a Touch Screen

- Window XP / Intel Atom N270 CPU

- 7" LCD Display with a Touch Screen

Direct connection to LIS/HIS

Barcode scanner included

A Single channel

All the products are Quantitative tests and All CE-marked.

Product class	Test item	Diseases	Sample type	Reaction time	Measurement ranges
Cardiac	Tn-I	Myocardial infarction	Whole blood Serum, Plasma	12 min.	1.0~50 ng/mL 0.1~50 ng/mL
	CK-MB	Myocardial infarction	Whole blood Serum, Plasma	12 min.	3~100 ng/mL
	D-Dimer	Heart Failure	Serum, Plasma	12 min.	50~10,000 ng/mL
	Myoglobin	Myocardial infarction	Whole blood Serum, Plasma	12 min.	5~500 ng/mL
	hsCRP	Cardiovascular inflammation	Whole blood Serum, Plasma	3 min.	0.1~10 mg/L
Cancer	PSA	Prostate cancer	Whole blood Serum, Plasma	15 min.	0.5~100 ng/mL 0.1~100 ng/mL
	AFP	Liver cancer	Whole blood Serum, Plasma	15 min.	5~350 ng/mL
	CEA	Coloerctal cancer	Serum, Plasma	12 min.	1~500 ng/mL
	iFOB	Coloerctal cancer	Feces (stool)	10 min.	25~1,000 ng/mL
Diabetes	HbA1c	Diabetes mellitus	Whole blood	12 min.	4~15 %
	Microalbumin	Diabetes mellitus	Urine	12 min.	2~300 mg/L
Hormone	TSH	Thyroid function	Whole blood Serum, Plasma	15 min. 12 min.	1~100 μIU/mL 0.1~100 μIU/mL
	T4	Thyroid function	Serum, Plasma	10 min.	20~300 nmol/L
	FSH	Menopause	Serum, Plasma	15 min.	3~100 mIU/mL
	hCG	Pregnancy	Whole blood Serum, Plasma	15 min. 15 min.	2~20,000 mIU/mL 2~3,000 mIU/mL
	Total β HCG	Fertility	Serum, Plasma	15 min.	250~200,000 mIU/mL
	LH	Ovulation	Serum, Plasma	15 min.	5~100 mIU/mL
	Prolactin	Sexual disorder & infertility	Serum, Plasma	10 min.	1~100 ng/mL
	Testosterone	Sexual disorder	Serum, Plasma	12 min.	1-10 ng/mL
	Cortisol	Metabolism	Whole blood Serum, Plasma	10 min.	80~800 nmol/L
Infection	CRP	Inflammation	Whole blood Serum, Plasma	3 min.	2.5~300 mg/L
	PCT	Sepsis	Serum, Plasma	12 min.	0.25-100 ng/mL
Rheumatoid Arthritis	RF IgM	Rheumatoid Arthritis	Whole blood Serum, Plasma	5 min.	10~200 IU/mL
Others	Ferritin	Anemia	Serum, Plasma	10 min.	10~1,000 ng/mL

Note : Self-testing products of the items above are available for HbA1c, hCG, iFOB, CRP, PSA and MAU(Microalbuminuria) in some countries.

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 E-mail: sales@boditech.co.kr
 Website: www.boditech.co.kr

Local Distributor

Company At a Glance

Boditech Med, Inc. was founded by Dr. Eui Yul Choi, an entrepreneur scientist whose mission is to make diagnostics affordable and accessible to everyone and help them lead a happy and healthy life. Since the inception of the company in 1998, it has expanded its business in over 80 different countries with two main products: **ichromα™** and **hemochromα^{PLUS}**.

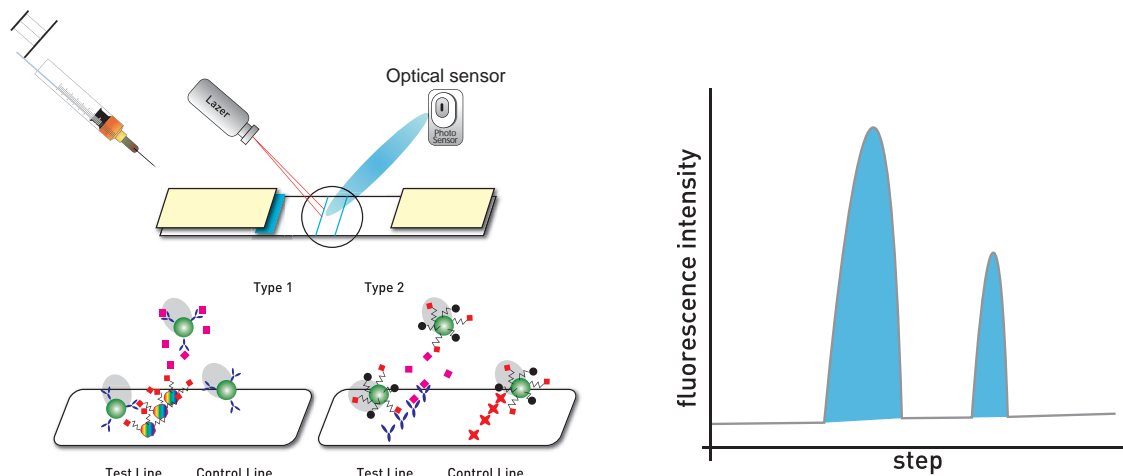
With our innovative technology, we have achieved No. 1 position in China on a single reagent basis since 2011. And, we have just formed partnership with a top healthcare company in India and will continue its fast growth over the next decades. Boditech Med, Inc. aims to become a World Top 10 POCT diagnostic company in 2014. To do so, we will make incessant efforts to offer innovative and affordable products including **ichromα™ SMART**, a semi-automatic analyzer in 2013 and more disease markers in the global market. Thank you.



Technology

ichromα™ is a portable diagnostics system using fluorescence immunoassay that quantifies analytes with a high sensitivity by measuring laser-induced epifluorescence of test strips. **ichromα™** technology utilizes a lateral flow-type assay method in which the immune complex in analytes is captured while migrating through the nitrocellulose membrane.

The system consists of fluorescence readers and test cartridges. It can be used to screen life-style related diseases from cardiac diseases, cancers, diabetes, infectious diseases to hormonal disorder. Our continuous efforts with product innovation enabled us to introduce the world's first TSH and hCG diagnostic markers using whole blood in 2012. All of **ichromα™** test markers are CE-certified. And, **ichromα™** reader and CRP are FDA approved.



ichromα™ SMART

A Semi-automatic analyzer coming soon



Expected market release in 2013

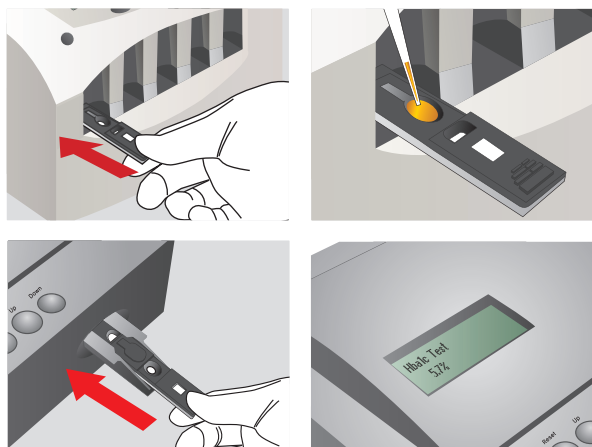
Specification

Semi-automatic analyzer
Dimensions: 210 x 303 x 395 mm
Weight: 4.2 kgs
Data storage: 1,000 tests
Display: 7 inch LCD
Interface: RS232, LAN, USB
Barcode scanner, keyboard, touch screen
Built-in printer



ichromα™ New HbA1c Test

Enhanced Reliability & Reproducibility with i-chamber



i-chamber is a thermostatic attachment to ichromα™ designed for HbA1c test.

i-chamber pre-conditions HbA1c test strips for ichromα™ and test results become more accurate and reliable.

Description: New HbA1c test

Immunological assay

Sample volume: 5 µl

Pre-incubation time: 5~30 min.

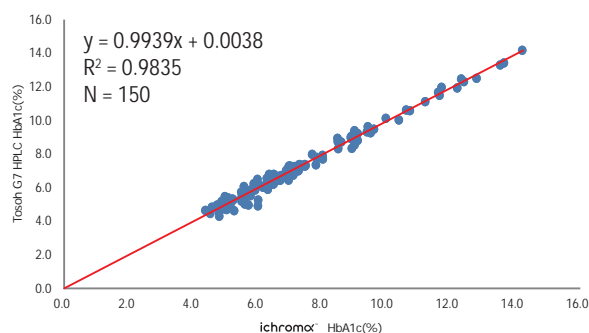
Reaction time: 12 minutes

Measurement range: 4~15 %

Display: % of HbA1c & Hemoglobin concentration

NGSP certificate obtained

ichromα™ HbA1c vs Tosoh G7



HbA1c + Hemoglobin Concentration with a Single Test

WHO and reputable international research institutes have recently considered hemoglobin concentration as one of the important factors in interpreting HbA1c values more accurately.

Increased HbA1c	Decreased HbA1c
Decreased erythropoiesis (Anemia)	Use of iron, B12 erythropoietin
Iron deficiency	Reticulocytosis
B12 deficiency	Chronic liver disease

ichromax™ hCG & Total β-hCG

Highlights of Changes

The previous i-Chroma hCG marker is now divided into two types: hCG test for pregnancy detection and Total β-hCG for fertility testing.

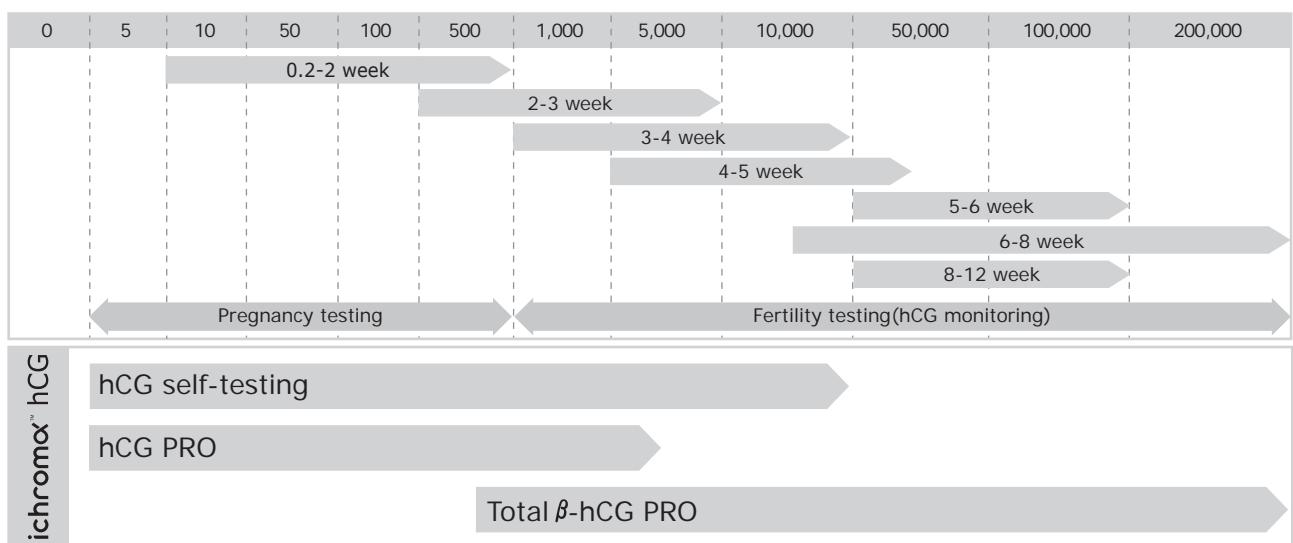
For hCG values over 20,000 mIU/ml, dilution is no longer needed. Thus, tests are more user-friendly.

Whole blood type of hCG for self-testing is also available with a different measurement range from hCG of serum and plasma type.

Type of i-chroma™ hCG and Total β-hCG

Test item	Intended use	Sample type	Reaction (Time)	Measurement range (mIU/mL)
hCG self-testing	Pregnancy self-testing	Whole blood	15 min.	2~20,000
hCG PRO	Pregnancy test for professional use	Serum / Plasma	15 min.	2~3,000
Total β-hCG PRO	Fertility test for Professional use	Serum / Plasma	15 min.	250~200,000

Ranges of ichromax hCG values during pregnancy



hemochrom α PLUS



Hemoglobin tests
in simple and easy steps!!

Specification

Principle: Absorptiometry

Sample: Whole blood

Sample volume: 12~15 μ L

Detection range: 0~27 g/dL

Reading time: Appx. 3 seconds

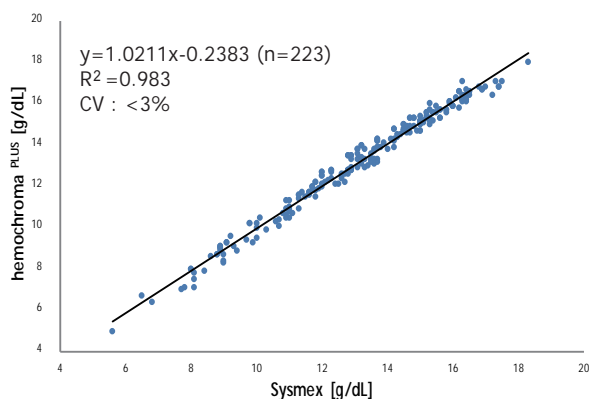
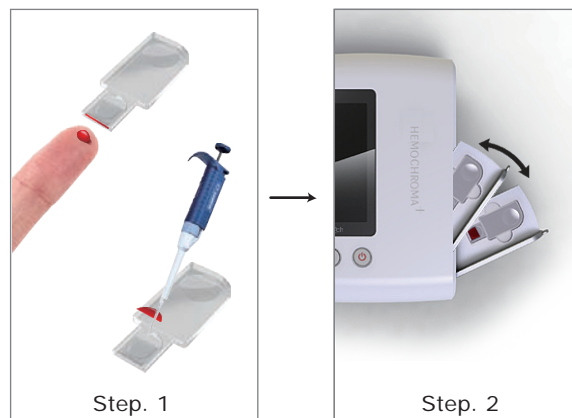
Data storage: 1,000 tests

Power: Batteries (AAx4)
or USB charger (Optional)

Dimensions: 106 x 151 x 39 mm

A Serial printer connection

The dual dosing ports are patent-pending!



hemochrom α PLUS

produces accurate & reliable
total hemoglobin test results
comparable to high-end analyzers.