

MAGLUMI™ 600

Chemiluminescence Immunoassay (CLIA) System

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OUTSTANDING TECHNOLOGY POWER OF MAGLUMI

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Chemiluminescence Immunoassay (CLIA) System

CLIA uses two important technologies, one is labeling technology which determines reaction mode; and the other is separation technology which determines the sensitivity, accuracy and precision of the reagents.

Labeling Technology

Two types of labeling technologies are commonly used. One is enzyme label and the other is non-enzyme small molecule label. Enzyme label reagents are not so stable and are easily affected by the change of storage conditions. Maglumi system applies ABEI labels. ABEI is a non-enzyme small molecule with special molecular formula to enhance stability in acid and alkaline solution. As fast chemiluminescence, ABEI chemical reaction with sodium hydroxide (NaOH) and Hydrogen peroxide (H₂O₂) finishes the process in 3 seconds.

Separation Technology

Maglumi uses Magnetic Microbeads. As separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technology, it has the following advantages:

- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capture of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.
- Enhancing the accuracy by absorbing antigens and antibodies through chemical reaction.

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Chemiluminescence Immunoassay (CLIA) System

Technical Specifications

Reagent Feature

- Flash chemiluminescence label –ABEI, with high sensitivity and long stability
- Nano magnetic microbeads separation, fast and efficient

Main Features

- Throughput: up to 180 tests/hour
- 24 hours ready-to-use
- Time to first result: 17 minutes

Modes of Operation

- Random, Batch and STAT

Sample Loading

- Up to 16 samples tubes
- Continuous loading, STAT available
- Barcode reader recognition or analyzer auto numbered
- LIS connection, auto read sample info
- Refrigerated sample area with independent power supply

Reagent Loading

- 4 reagents on board
- Continuous loading
- RFID reading all info of reagent
- Refrigerated reagent area

Reagent Integral

- Ready-to-use, no pretreatment required
- Including calibrators
- RFID tag storing all info of reagent
- RFID tag with built-in master curve
- 2-point calibration to adjust master curve
- Calibration stability: Max 4 weeks

Other Features

- Clot detection
- Liquid level detection
- Auto and optional ratio for high sample dilution
- Constant 37°C incubation

Operation System

- Windows 7
- Laptop (Dual-core CPU)

Interconnection

- Bi-communication with LIS via ASTM protocol

Dimensions Weight

- Input: AC 110-230V, 50/60HZ
- Dimension and weight: 90 X 56 X50cm 56kg



Shenzhen New Industries Biomedical Engineering Co., Ltd
(SNIBE Co., Ltd)

21st Floor, Block A, Building 1, Shenzhen Software Industry Base,
No. 1008, Keyuan Road, Nanshan District, Shenzhen 518000 CHINA

Tel: +86 755 26501514

Fax: +86 755 26654850

Email: sales@snibe.com

Web: www.snibe.com



DISTRIBUTOR:



Thyroid

TSH (3rd Generation)
T4
T3
FT4
FT3
Tg(Thyroglobulin)
TGA(Anti-Tg)
Intact PTH
Anti-TPO
TRAb
TMA
Rev T3



Fertility

FSH
LH
HCG/ β -HCG
PRL
Estradiol
Testosterone
free Testosterone
DHEA-S
Progesterone
free Estriol
17-OH Progesterone
AMH
***SHBG**
***Androstenedione**
***PIGF**
***sFlt-1**



TORCH

Toxo IgG
Toxo IgM
Rubella IgG
Rubella IgM
CMV IgG
CMV IgM
HSV-1/2 IgG
HSV-1/2 IgM
HSV-2 IgG
***HSV-2 IgM**
***HSV-1 IgG**
***HSV-1 IgM**



EBV

EBV EA IgG
EBV EA IgA
EBV VCA IgG
EBV VCA IgM
EBV VCA IgA
EBV NA IgG
***EBV NA IgA**



Tumor Markers

Ferritin
AFP
CEA
Total PSA
f-PSA
CA 125
CA 15-3
CA 19-9
HCG/ β -HCG
Tg(Thyroglobulin)
PAP
CA 50
CYFRA 21-1
CA 242
CA 72-4
NSE
S-100
SCCA
TPA-snibe
Pepsinogen I
Pepsinogen II
Gastrin-17
H.pylori IgG
 β_2 -MG
Calcitonin
Proinsulin
***H.pylori IgA**
***H.pylori IgM**
***ProGRP**
***AFP-L3**
***HE4**
***PIVKA-II**
***HER-2**



Bone Metabolism

Calcitonin
Osteocalcin
25-OH Vitamin D
Intact PTH
*** β -CTX**
***PINP**



Glyco Metabolism

C-Peptide
Insulin
ICA
IAA(Anti Insulin)
Proinsulin
GAD 65
Anti-IA2



Autoimmune

TGA(Anti-Tg)
Anti-TPO
TRAb
TMA
ICA
IAA(Anti Insulin)
GAD 65
Anti-IA2
***Anti-CCP**
***Anti-dsDNA IgG**
***ANA Screen**
***ENA Screen**
***Anti-Sm IgG**
***Anti-Rib-P IgG**
***Anti-Scl-70 IgG**
***Anti-Centromeres IgG**
***Anti-Jo-1 IgG**
***Anti-M2-3E IgG**
***Anti-Histone IgG**
***Anti-nRNP/Sm IgG**
***Anti-SS-B IgG**
***Anti-SS-A IgG**



Infectious Disease

HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HCV
Syphilis
Anti-HAV
HAV IgM
HIV p24 Ag
HIV Ab/Ag combi
Chagas
HTLV I+II
H.pylori IgG
***H.pylori IgA**
***H.pylori IgM**
***Anti-HBc IgM**



Prenatal Screening

AFP (Prenatal Screening)
Free β -HCG
PAPP-A
HCG/ β -HCG
free Estriol



Anemia

Vitamin B12
Ferritin
Folate (FA)



Cardiac

CK-MB
Troponin I
Myoglobin
NT-proBNP
Aldosterone
Angiotensin I
Angiotensin II
D-Dimer
LP-PLA2
hs-cTnl
hs-CRP
Direct Renin
***H-FABP**
***BNP**



Hepatic Fibrosis

HA
PIIIP N-P
C IV
Laminin
Cholyglycine



Drug Monitoring

Digoxin
CSA (Cyclosporine A)
FK 506 (Tacrolimus)



Inflammation Monitoring

hs-CRP
PCT(Procalcitonin)
***IL- 6**



Immunoglobulin

IgM
IgA
IgE
IgG



Kidney Function

β_2 -MG
Albumin



Others

Cortisol
GH(hGH)
IGF-I
ACTH
***IGFBP-3**

In Blue Special Assay
*Available Soon

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23

154

130+

8000+

Years Focus

Parameters

Countries Installed

Units Installed

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FDA
510(k)
Cleared



MAGLUMI™ 600



MAGLUMI™ 800



MAGLUMI™ 1000



MAGLUMI™ 2000

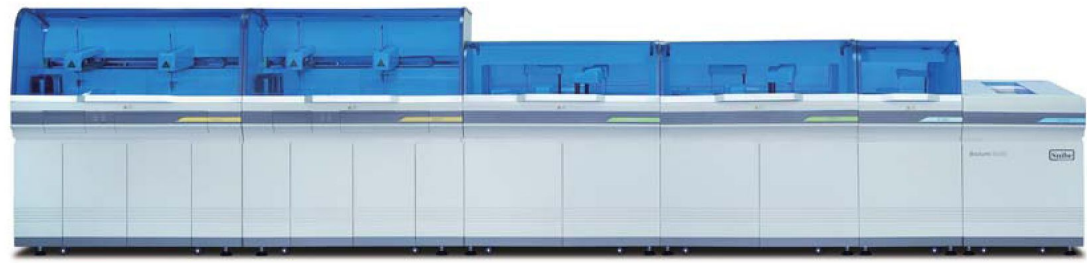


MAGLUMI™ 2000 Plus



MAGLUMI™ 4000 Plus

Integrated System-Biolumi™ 8000



Automated Biochemistry Analyzer



Biossays™ 240



Biossays™ 240 Plus



Biossays™ BC1200



Biossays™ BC2200

Hepatic

- TBA
- ALT (SGPT)
- AST (SGOT)
- ALP
- GGT
- TBIL
- DBIL
- TP
- ALB
- *Ammonia
- *PA
- *CHE
- *AFU

Special Protein

- *ASO
- *RF
- *hsCRP (Full Range)
- *UIBC
- *TP (Urine/CSF)
- *G6PD
- *IgA
- *IgM
- *IgG
- *C3
- *C4
- *ACP
- *Transferrin

ISE

- Na
- K
- Cl
- Ca
- pH

Inorganic Ion

- *Fe (Iron)
- *Ca
- *P (Phos)
- *Mg

Renal

- Cr (CREA)
- Uric Acid
- Urea
- *CysC
- *mALB
- *α₁-MG
- *β₂-MG

Pancreatic

- α-AMY
- *LIP

Diabetes

- GLU
- *LAC
- *HbA1c

Cardiac

- CK
- CK-MB
- α-HBDH
- LDH
- *LDH1

Lipids

- HDL-C
- LDL-C
- TC
- TG
- ApoE
- Lp(a)
- Hcy
- *ApoA1
- *ApoB

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