# MAGLUMI 800

## Chemiluminescence Immunoassay (CLIA) System



# OUTSTANDING TECHNOLOGY POWER OF MAGLUMI

## 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 samll molecule label. Enzyme label reagents are not so stable and are easily effected by the change of storage conditions. Maglumi system applies ABEI labels. ABEI is a non-enzyme samll molecule with special molecular formula to enhance stability in acid and alkaline solution. As fast chemiluminescence, ABEI chemical reaction with sodium hydroxide (NaOH) and Hyperoxide ($H_2O_2$) 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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# ADVANTAGE OF MAGLUMI 800



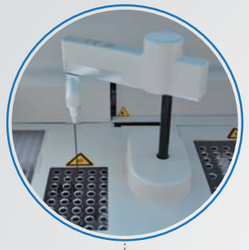

- For small and middle size labs or hospitals
- Simple, Smart, Humanization designed model
- More than enough test menu to meet the different needs and it is enlarging according to your requirement
- Free Quality Control and calibrator helps to reduce the Cost Per Test
- Quality guarantee by the Third party quality control and External Quality Assessment (EQA)
- Key technology ABEI and Nano magnetic microbead enhances stability and sensitivity of MAGLUMI reagents




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# MAGLUMI 800

- Integrated design and humanized appearance
- Simple and smart operation
- Compact size and weight



## Pipettor

- Aspirate reagent/sample with high speed
- Titanium needle for crushproof
- Clot detection & liquid level detection
- Coated with TEFLON to prevent carry-over
- Inner & external washing






## Chamber

- High-sensitivity and low-noise PMT
- Cuvettes detection and anti-overflow



## Automated cuvette loader

- Up to 40 modules of 240 tests
- Continuous loading



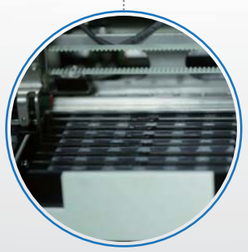
## Washer

- Strong magnetic field helps better separation
- Three pairs of washing needles with anti-overflow function



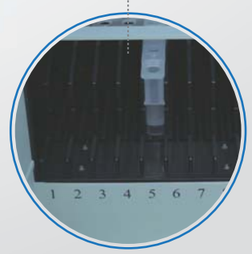
## Sample area

- Up to 40 sample on board with barcode
- Continuous loading & cooling function



## Incubator

- Incubate 13 slots (78 tests at the same time)
- The temperature is 36.8℃±0.5℃

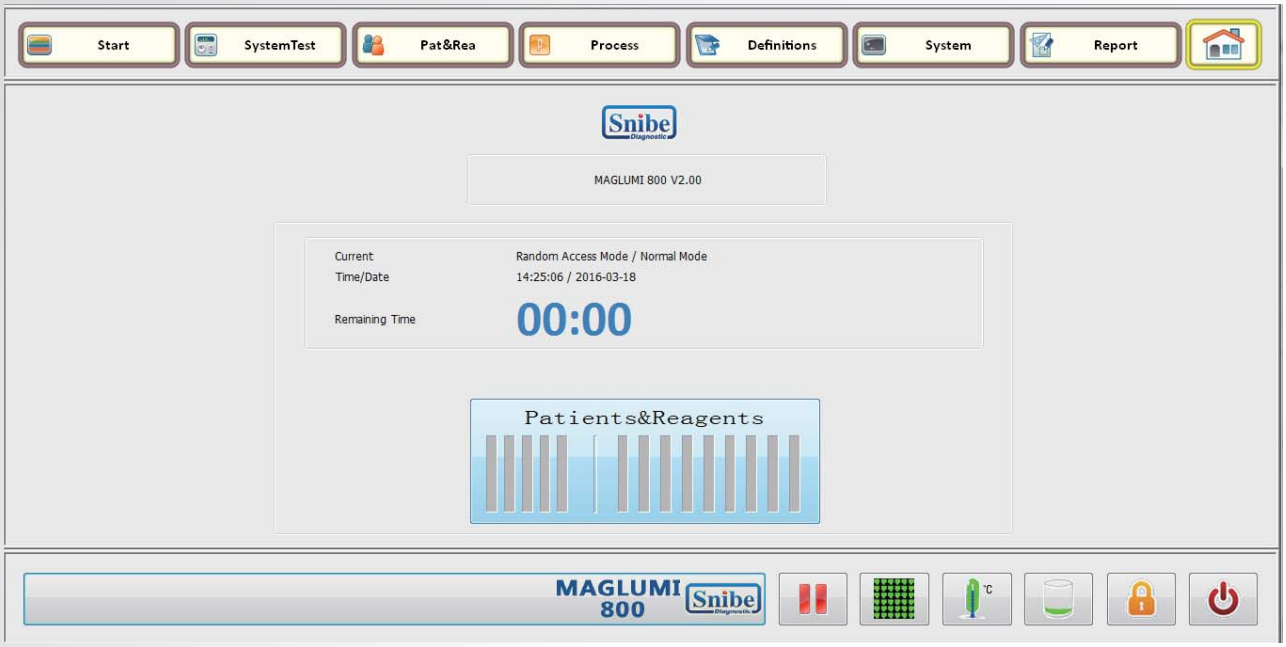



## Reagent area

- Up to 9 reagents on board with RFID
- RFID label storing reagent information
- Easy and fast for adding and updating
- RFID tag, high reliability

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# OPERATION SOFTWARE




### Comprehensive software

- User-friendly Interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function

### Maintenance Guide

- Daily, weekly and monthly maintenance guide for analytical unit
- Ensure performance reliability and reduce unnecessary service calls

### Quality control

- Westgard rules and Levey-Jennings chart for both internal and external quality control

### Test Summary Function

- Test summary including system test, calibration, QC, statistics of samples, valid tests and rerun tests
- Search and review test information conveniently

### Pre or post defined dilution Function

- Pre or post defined dilution flexibly if high concentration is met

### Connect to LIS ( bidirection )

- Bidirection, Lis can connect by online and ASTM

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# TEST MENU

## Tumor Markers

Ferritin
AFP
CEA
Total PSA
f-PSA
CA 125
CA 15-3
CA 19-9
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

## Bone Metabolism

Intact PTH
Calcitonin
Osteocalcin
25-OH Vitamin D

## Glyco Metabolism

C-Peptide
Insulin
ICA
IAA
Proinsulin
GAD 65
IA-2

## Fertility

FSH
LH
HCG/β–HCG
PRL
Estradiol
free Estriol
Progesterone
Testosterone
free Testosterone
DHEA-S
*AMH
17-OH Progesterone

## Thyroid

TSH
T4
T3
FT4
FT3
TG
TGA
TRAb
TMA
Anti-TPO
Rev T3

## Prenatal Screening

cAFP
free β–HCG
PAPP-A

## Inflammation Monitoring

CRP
PCT

## Kidney Function

β2-MG
Albumin

## Hepatic Fibrosis

HA
PIIIP N-P
C IV
Laminin
Cholyglycine

## TORCH

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

## EBV

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

## Immunoglobulin

IgM
IgA
IgE
IgG

## Anemia

Vitamin B12
Ferritin
FA

## Drug Monitoring

Cyclosporine A
Tacrolimus, FK 506
Digoxin

## Cardiac

CK-MB
Troponin I
Myoglobin
NT-proBNP
Aldosterone
Angiotensin I
Angiotensin II
D-Dimer
*Direct Renin
LP-PLA2
hs-cTnI

## Infectious Disease

HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HCV
Syphilis
Chagas
HTLV I/II
Anti-HAV
HAV IgM
HIV A b
HIV p24 Ag
HIV Ab/Ag combi

## Others

GH
IGF-I
Cortisol
ACTH

*In Red Available Soon

# MAGLUMI 800

## Chemiluminescence Immunoassay (CLIA) System

### Technical Specifications

| | |
|---|---|
| **Reagent Feature** | ● Flash chemiluminescence label-ABEI,with high sensitivity and long stability<br>● Nano magnetic microbeads separation,fast and efficient |
| **Main Features** | ● Throughput: up to 180 tests/hour<br>● 24 hours ready to use<br>● Time to first result: 17 minutes |
| **Modes of Operation** | ● Random,Batch and STAT |
| **Sample Loading** | ● Up to 40 sample tubes<br>● Continuous loading,STAT available<br>● Barcode reader recognition or analyzer auto numbered<br>● LIS connection,auto read sample info<br>● Refrigerated sample area with independent power supply |
| **Reagent Loading** | ● 9 reagents on board<br>● Continuous loading<br>● RFID reading all info of reagent<br>● Refrigerated reagent area |
| **Reagent Integral** | ● Ready-to-use, no pretreatment required<br>● Including calibrators<br>● RFID tag storing all info of reagent<br>● RFID tag with built-in master curve<br>● 2-point calibration to adjust master curve<br>● Calibration stability: Max 4 weeks |
| **Other Features** | ● Clot detection<br>● Liquid level detection<br>● Auto and optional ratio for high sample dilution<br>● Constant 37°C incubation |
| **Operation System** | ● Windows 7<br>● DELL compatible （Dual-core CPU）<br>● Color touch screen |
| **Interconnection** | ● Bi-communication with LIS via ASTM protocol |
| **Dimensions Weight** | ● Input:AC 110-230V,50/60 Hz,Max 630W<br>● Dimension and Weight:102*72*56cm 73kg |


Snibe Diagnostic

**Shenzhen New Industries Biomedical Engineering Co., Ltd.(Snibe)**

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

**PT. MULTIMEDILAB KARYAMANDIRI**

MEDICAL & LABORATORY EQUIPMENTS

GP Plaza Lantai 3 Unit 6 Jl. Gelora II No. 01 RT. 01/01,
Kelurahan Gelora Kecamatan Tanah Abang, Jakarta Pusat
10270 – INDONESIA

Telp. (021) 3972-9191 (hunting). Fax. (021) 3972-9195