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.

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

56cm
102cm
72cm
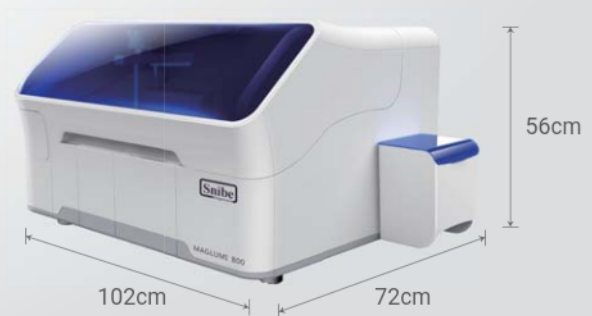
MAGLUMI 800

- 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

Washer

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

Automated cuvette loader

- Up to 40 modules of 240 tests
- Continuous loading

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

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

OPERATION SOFTWARE

| Start | SystemTest | Pat&Rea | Process | Definitions | System | Report |

Snibe

MAGLUMI 800 V2.00

Current	Random Access Mode / Normal Mode
Time/Date	14:25:06 / 2016-03-18
Remaining Time	**00:00**

Patients&Reagents
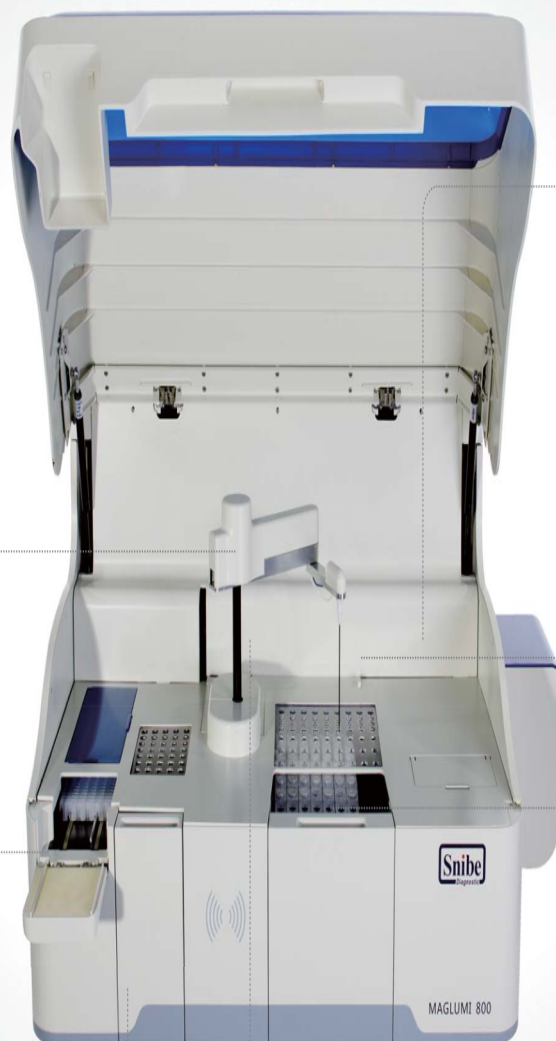
MAGLUMI 800 **Snibe**

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

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

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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 40 sample 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	• 9 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 • DELL compatible Dual-core CPU • Color touch screen
Interconnection	• Bi-communication with LIS via ASTM protocol
Dimensions Weight	• Input:AC 110-230V,50/60 Hz,Max 630W • Dimension and Weight:102*72*56cm 73kg

Snibe
Diagnostic

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