

# MAGLUMI<sup>®</sup> 800

Chemiluminescence Immunoassay (CLIA) System



# Outstanding Technology Power of MAGLUMI®

## Chemiluminescence Immunoassay (CLIA) System

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

### ABEI Labelling Technology

Two types of labelling 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 solutions. The chemical reaction process of ABEI with sodium hydroxide (NaOH) and hyperoxide ( $H_2O_2$ ) finishes in 3 seconds.

### Magnetic Microbeads Separation Technology

MAGLUMI® uses magnetic microbeads. As a separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technologies, it has the following advantages:

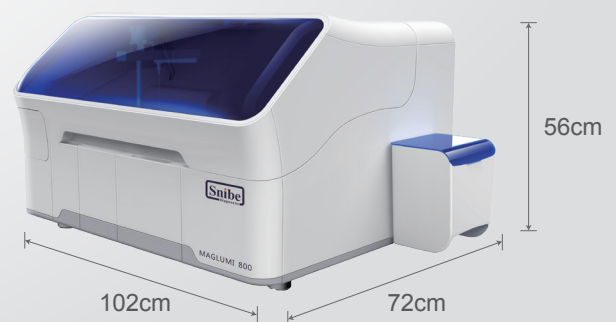
- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capturing of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.



# Advantage of MAGLUMI® 800

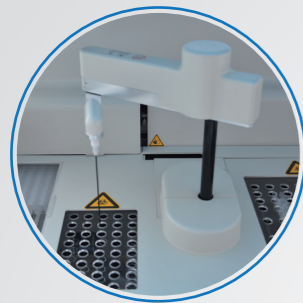


- For small and middle size labs or hospitals
- Simple, Smart, Humanization designed model
- More than enough test menu to meet the different needs and it will be extended according to your requirement
- Free quality control and calibrator helps to reduce the cost per of test
- Quality guarantee by the third party quality control and external quality assessment (EQA)
- Key technology ABEI and magnetic microbead enhances stability and sensitivity of MAGLUMI® reagents



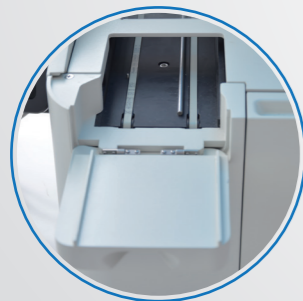
# MAGLUMI® 800

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



## Pipettor

- Aspirate reagent / sample with high speed
- Titanium needle with crush-proof function
- Clot detection & liquid level detection
- Coated with TEFLON to prevent carry-over
- Internal & external washing



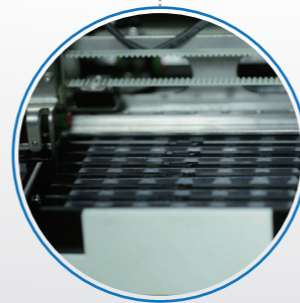
## Automated cuvette loader

- Up to 40 modules of 240 tests
- Continuous loading



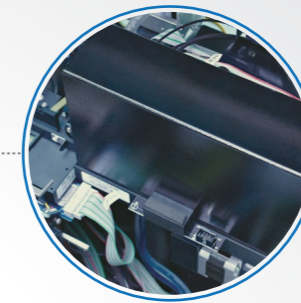
## Sample area

- Up to 40 samples on board with barcode
- Continuous loading & cooling function
- Random, batch, and STAT mode



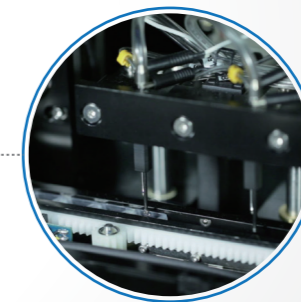
## Incubator

- 13 Incubate slots (78 tests at the same time)
- The temperature is  $36.8^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$



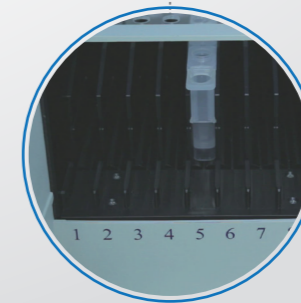
## Chamber

- 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



## 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

# Operation Software



## Comprehensive Software

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Multilingual support, 10 languages available by request



## Maintenance Guide

- Smart Maintenance with step by step guide, ensure performance reliability and reduce unnecessary service calls
- Daily, weekly and monthly maintenance guide for analyzer



## 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- and post- dilution available for the case of high concentration sample



## Bidirectional LIS Connection

- Bidirectional LIS connection by TCP/IP and COM

# Test Menu

## Thyroid

TSH (3rd Generation)  
T4  
T3  
FT4  
FT3  
Tg (Thyroglobulin)  
TGA (Anti-Tg)  
Anti-TPO  
TRAb  
TMA  
Rev T3  
\*T-Uptake

## 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-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

## Inflammation Monitoring

hs-CRP  
PCT (Procalcitonin)  
IL-6 (Interleukin 6)  
SAA(Serum Amyloid A)

## Fertility

FSH  
LH  
HCG/ $\beta$ -HCG  
PRL (Prolactin)  
Estradiol  
Testosterone  
free Testosterone  
DHEA-S  
Progesterone  
free Estriol  
17-OH Progesterone  
AMH  
SHBG  
Androstenedione  
\*PIGF  
\*sFlt-1

## Hypertension

Direct Renin  
Aldosterone  
Angiotensin I  
Angiotensin II  
Cortisol  
ACTH

## Autoimmune

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-Histones IgG  
Anti-nRNP/Sm IgG  
Anti-SS-B IgG  
Anti-SS-A IgG  
TGA(Anti-Tg)  
Anti-TPO  
TRAb  
TMA  
ICA  
IAA(Anti Insulin)  
GAD 65  
Anti-IA2  
\*Anti-Cardiolipin IgG  
\*Anti-Cardiolipin IgM  
\*Anti-MPO

## Immunoglobulin

IgM  
IgA  
IgE  
IgG

## Tumor Markers

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  
ProGRP  
HE4  
HER-2  
PIVKA-II

## Infectious Disease

HBsAg  
Anti-HBs  
HBeAg  
Anti-HBe  
Anti-HBc  
Anti-HCV  
Syphilis  
Anti-HAV  
HAV IgM  
HIV Ab/Ag Combi  
Chagas  
HTLV I+II  
H.pylori IgG  
H.pylori IgA  
H.pylori IgM  
2019-nCoV IgG  
2019-nCoV IgM  
SARS-CoV-2 S-RBD IgG  
SARS-CoV-2 Neutralizing Antibody  
SARS-CoV-2 Ag  
\*Anti-HBc IgM

## Drug Monitoring

Digoxin  
CSA (Cyclosporine A)  
FK 506 (Tacrolimus)

## Kidney Function

$\beta_2$ -MG  
Albumin  
\*NGAL

## Cardiac

CK-MB  
Troponin I  
Myoglobin  
hs-cTnI  
H-FABP  
NT-proBNP  
BNP  
D-Dimer  
Lp-PLA2  
\*MPO

## Metabolism

Pepsinogen I  
Pepsinogen II  
Gastrin-17  
GH (hGH)  
IGF-I  
IGFBP-3

## Prenatal Screening

AFP(Prenatal Screening)  
Free  $\beta$ -HCG  
PAPP-A  
free Estriol

## Anemia

Vitamin B12  
Ferritin  
Folate (FA)  
\*RBC Folate  
\*EPO

## Glyco Metabolism

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

## Bone Metabolism

Calcitonin  
Osteocalcin  
25-OH Vitamin D  
Intact PTH  
\* $\beta$ -CrossLaps ( $\beta$ -CTX)  
\*total P1NP

\* Available soon

# MAGLUMI<sup>®</sup> 800

## Chemiluminescence Immunoassay (CLIA) System

### Technical Specifications

#### Reagent Feature

- Flash chemiluminescence label-ABEI, with high sensitivity and long stability
- Superpara magnetic microbeads separation technology, 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 automatic numbered
- LIS connection, automatic read sample information
- 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
- Automatic and optional ratio for high concentration sample dilution
- Constant  $36.8 \pm 0.5^{\circ}\text{C}$  incubation

#### Operation System

- Windows 7, Windows 10
- Color touch screen

#### Interconnection

- Bidirectional LIS connection by TCP/IP and COM

#### Dimensions Weight

- Input: AC 110/230 Vac, 50/60 Hz, Max 630W
- Dimension and Weight: 102\*72\*56cm 73kg



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