

# MAGLUMI X8

Fully Automatic Chemiluminescence Immunoassay (CLIA) System

**New  
600T/H**



The Fastest CLIA Solution

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# Outstanding Technologies 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.



# Advantages of MAGLUMI X8



## High throughput

- Throughput: up to 600 tests/hour(Single module)
- Up to 2400 tests/hour (Four modules combined)



## Excellent reliability

- Magnetic microbeads separation , fast and efficient
- Flash chemiluminescence label-ABEI
- Intelligent magnetic field design ensuring excellent separation
- Disposable tips to prevent carry-over



## High capacity

- Sample positions: 300
- Reagent Position: 42
- Up to 2800 walk-away tests



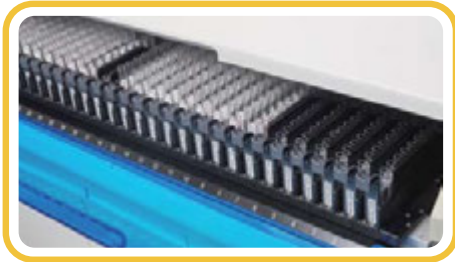
## Advanced intelligence

- Capable to integrated several modules including Snibe Immunoassay, biochemistry and ISE module
- Capable to link with Laboratory Automation system(TLA/LAS)
- User-friendly interface, easy operation
- Intelligent consumable loading technology
- Intelligent information monitoring system



# MAGLUMI X8

- Flash chemiluminescence label-ABEI, with high sensitivity and long stability
- Magnetic Microbeads separation, fast and efficient



## Sampling Loading

- Up to 300 sample positions
- Continuous loading, STAT function available
- Auto remeasuring function, auto dilution function
- Sample editing mode:
  - Lis connection, barcode recognition, auto named, manual editing



## Sample transport system/Sampling system

- 3 channels, High speed loading
- Specific channel for STAT samples
- Disposable tips
- One pipetting for multiple tests
- Clot detection
- Liquid level detection
- Bubble detection
- Collision detection



## Reagent Area

- 42 reagent positions on board
- Continuous loading
- RFID technology
- 24-hour refrigerated
- Working Temp. 8°C-12°C, Storage Temp. 2°C-8°C



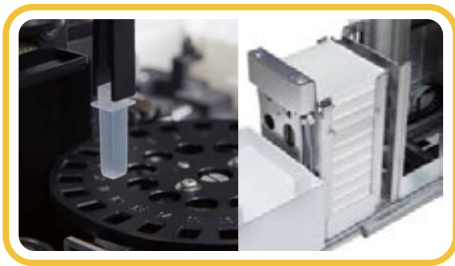
## Reagent needle

- Titanium needle for crushproof
- Teflon coated for carry-over prevention
- Dual-arm design to pipette different reagents simultaneously
- Liquid level detection, Collision detection



### Tip Storage

- Up to 576 TIPS loaded one time (6 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring



### Cuvette Storage

- Single cuvettes design
- Up to 2912 cuvettes loaded one time (16 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring



### Consumable management

- Intuitive and concise design
- Intelligent reminding



### Software System

- Brand new user-friendly UI interface
- Supporting SnibeLinker remote diagnosis system
- Multilingual support
- Touch screen, easy operation
- Report system including editing, storage, query and printing

# Operation Software



## Comprehensive software

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Multilingual support, more 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 analyser



## 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 ASTM



# Test Menu

## Tumor Markers

Ferritin  
AFP  
CEA  
Total PSA  
f-PSA  
CA 125  
CA 15-3  
CA 19-9  
HCG/ $\beta$ -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  
 $\beta$ 2-MG  
Calcitonin  
Proinsulin  
H.pylori IgG  
H.pylori IgA  
H.pylori IgM  
ProGRP  
HE4  
HER-2  
\*AFP-L3  
\*PIVKA-II

## Bone Metabolism

Calcitonin  
Osteocalcin  
25-OH Vitamin D  
Intact PTH  
\* $\beta$ -CTX  
\*PINP

## Glyco Metabolism

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

## Fertility

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

## Thyroid

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

## Prenatal Screening

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

## Inflammation Monitoring

hs-CRP  
PCT(Procalcitonin)  
IL- 6

## Kidney Function

$\beta_2$ -MG  
Albumin

## Anemia

Vitamin B12  
Ferritin  
Folate (FA)

## 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

## Hepatic Fibrosis

HA  
PIIIP N-P  
C IV  
Laminin  
Cholyglycine

## 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

## Immunoglobulin

IgM  
IgA  
IgE  
IgG

## 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

## Autoimmune

TGA(Anti-Tg)  
Anti-TPO  
TRAb  
TMA  
ICA  
IAA(Anti Insulin)  
GAD 65  
Anti-IA2  
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  
\*Anti-CCP

## Drug Monitoring

Digoxin  
CSA (Cyclosporine A)  
FK 506 (Tacrolimus)

## Others

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

\* Available soon

# MAGLUMI X8

## Chemiluminescence Immunoassay (CLIA) System

### Technical Specifications

#### Reagent Features

- Flash chemiluminescence label-ABEI, with high sensitivity and long stability
- Magnetic Microbeads separation, fast and efficient

#### Main Features

- Throughput: up to 600 tests/hour (Single module)
- Time to first result: 15 minutes
- 24 hours ready to use
- Up to 2800 walk-away tests
- Modular Expanding Flexibility:
  - \*Capable to integrated several modules including Snibe Immunoassay, biochemistry and ISE module
  - \*Capable to link with Laboratory Automation system (TLA/LAS)

#### Sample Loading

- Up to 300 sample positions
- Continuous loading, STAT available
- Auto remeasuring function
- Sample editing mode:
  - Lis connection, Barcode recognition, Auto named, Manual editing

#### Reagent Loading

- 42 reagent positions on board
- Continuous loading
- RFID technology
- 24-hour refrigerated
- Working Temp. 8°C-12°C, Storage Temp. 2°C-8°C

#### Reagent needle

- Titanium needle for crushproof
- Teflon coated for carry-over prevention
- Dual-arm design to pipette different reagents simultaneously
- Liquid level detection, Collision detection
- Probe depth adjustment automatically

#### Reagent Integral

- Ready to use, no pretreatment required
- Calibrators and internal controls included
- RFID tag storing all info of reagent
- 2-point re-calibration
- Calibration stability: up to 4 weeks
- Storage temperature: 2°C-8°C

#### Sampling system

- Using disposable TIPS
- One pipetting for multiple tests
- Clot detection
- Liquid level detection
- Bubble detection
- Collision detection

#### Reaction Disk

- Incubating 252 cuvettes simultaneously
- Stable 37.0°C incubation
- Non-contact mix technology

#### Tip Storage

- Up to 576 TIPS loaded one time (6 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring

#### Cuvette Storage

- Single cup design
- Up to 2912 cuvettes loaded one time (16 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring

#### Washer

- 4-step washing technology, high speed single channel design
- Intelligent magnetic field design ensuring excellent separation
- Non-contact Magnetic Microbeads suspension technology

#### Software System

- Bi-directional LIS communication via ASTM and TCP/IP protocol
- Supporting SnibeLinker remote diagnosis system

#### Dimensions Weight

- Input: AC 100-240V,50/60Hz
- Dimensions and Weight:192\*118\*150 (cm), 670Kg



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