

# MAGLUMI™ 2000 Plus

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 small 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 small molecule with special molecular formula to enhance stability in acid and alkaline solution. As for chemiluminescence, ABEI chemical reaction with sodium hydroxide (NaOH) and Hydrogen peroxide ( $H_2O_2$ ) 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:

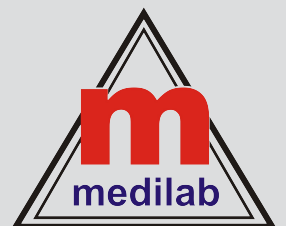
- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capture of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.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



# Advantage of MAGLUMI™ 2000 Plus

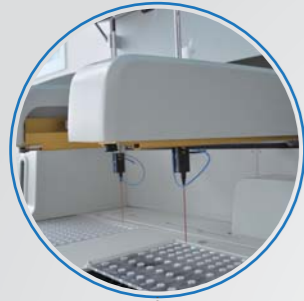


- For large labs or hospitals
- More than enough test menu to meet the different needs and it will be extended according to your requirement
- Free Quality Control and calibrator helps to reduce the Cost Per Test
- Quality guarantee by the Third party quality control and External Quality Assessment (EQA)
- Key technology ABEI and Nano magnetic microbead enhances stability and sensitivity of MAGLUMI reagents



# MAGLUMI™ 2000 Plus

- 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



## Automated cuvette loader

- Capable of loading modules continuously
- Up to 180 reaction modules



## 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



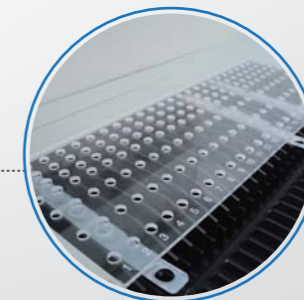
## Sample area

- Up to 144 sample on board with barcode
- Continuous loading & cooling function
- Random, batch, and STAT modes



## Incubator

- 16 Incubate slots (96 tests at the same time)
- The temperature is 36.8°C ± 0.5°C



## Reagent area

- Cooling function
- 25 Reagents on board, continuous loading
- RFID label storing reagent information
- RFID tag, high reliability
- Easy and fast for adding and updating



# 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



## 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 Maglumi (CLIA)

## 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

## 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

## Kidney Function

$\beta_2$ -MG  
Albumin  
\*NGAL

## 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

## Hypertension

Direct Renin  
Aldosterone  
Angiotensin I  
Angiotensin II  
Cortisol  
ACTH

## 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  
\*Anti-HBc IgM

## Drug Monitoring

Digoxin  
CSA (Cyclosporine A)  
FK 506 (Tacrolimus)

## 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

## 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™ 2000 Plus

## Chemiluminescence Immunoassay (CLIA) System

### Technical Specifications

#### Reagent Feature

- Flash chemiluminescence label –ABEI, with high sensitivity and long stability
- 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 144 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

- 25 reagents on board
- Continuous loading
- RFID reading all info of reagent
- Refrigerated reagent area with independent power supply

#### 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, 50/60HZ
- Dimension and weight: 144 x 76 x 152cm 228kg



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