

# MAGLUMI 2000

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 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 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 Nano 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.





# 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  
Pepsinogen I  
Pepsinogen II  
SCCA  
\*Gastrin-17

## 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/ $\beta$ -HCG  
PRL  
Estradiol  
free Estriol  
Progesterone  
Testosterone  
free Testosterone  
DHEA-S  
\*AMH

## Thyroid

TSH  
T<sub>4</sub>  
T<sub>3</sub>  
FT<sub>4</sub>  
FT<sub>3</sub>  
TG  
TGA  
TRAb  
TMA  
Anti-TPO  
Rev T<sub>3</sub>

## Prenatal Screening

cAFP  
free  $\beta$ -HCG  
PAPP-A

## Inflammation Monitoring

CRP  
PCT

## Kidney Function

$\beta_2$ -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 B<sub>12</sub>  
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  
\*Renin(PRC)  
\*LP-PLA2

## Infectious

HBsAg  
Anti-HBs  
HBeAg  
Anti-HBe  
Anti-HBc  
Anti-HCV  
\*HIV  
\*Syphilis  
\*Chagas  
\*HTLV  
\*Anti-HAV  
\*HAV IgM  
\*H.pylori IgG

## Others

GH  
IGF-I  
Cortisol  
ACTH

\*Under development

Product availability subject to required regulatory approval



# MAGLUMI 2000

## 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 144 samples tubes
- Continuous loading, STAT available
- Barcode reader recognition or analyzer auto numbered
- LIS connection, auto read sample info

#### Reagent Loading

- 15 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
- HP 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: 135 X 76 X 158cm 158kg



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