

# MAGLUMI™ 600

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 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.



# 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  
 $\beta_2$ -MG  
HCG/ $\beta$ -HCG  
Calcitonin  
Tg(Thyroglobulin)  
Proinsulin  
\*proGRP  
\*AFP-L3

## Bone Metabolism

Intact PTH  
Calcitonin  
Osteocalcin  
25-OH Vitamin D

## Glyco Metabolism

C-Peptide  
Insulin  
ICA  
IAA(Anti Insulin)  
Proinsulin  
GAD 65  
IA-2

## Anemia

Vitamin B<sub>12</sub>  
Ferritin  
Folate

## Fertility

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

## Thyroid

TSH(3rd Generation)  
T<sub>4</sub>  
T<sub>3</sub>  
FT<sub>4</sub>  
FT<sub>3</sub>  
Tg(Thyroglobulin)  
TGA(Anti-Tg)  
TRAb  
TMA  
Anti-TPO  
Rev T<sub>3</sub>  
Intact PTH

## Prenatal Screening

cAFP  
free  $\beta$ -HCG  
PAPP-A  
HCG/ $\beta$ -HCG  
free Estriol

## Inflammation Monitoring

hs-CRP  
PCT(Procalcitonin)

## Kidney Function

$\beta_2$ -MG  
Albumin

## 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  
\*EBV NA IgA

## Immunoglobulin

IgM  
IgA  
IgE  
IgG

## Hepatic Fibrosis

HA  
PIIIP N-P  
C IV  
Laminin  
Cholyglycine

## Infectious Disease

HBsAg  
Anti-HBs  
HBeAg  
Anti-HBe  
Anti-HBc  
Anti-HCV  
Syphilis  
Chagas  
HTLV I/II  
Anti-HAV  
HAV IgM  
HIV p24 Ag  
HIV Ab/Ag combi

## Drug Monitoring

Cyclosporine A  
Tacrolimus, FK 506  
Digoxin

## 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

## Autoimmune

TGA(Anti-Tg)  
TRAb  
TMA  
Anti-TPO  
ICA  
IAA(Anti Insulin)  
GAD 65  
IA-2  
\*Anti-CCP  
\*Anti-dsDNA  
\*Anti-Sm  
\*Anti-Ribosomal-P  
\*ANA  
\*ENA  
\*Anti-Scl-70  
\*Anti-CENP-B  
\*Anti-Jo-1  
\*Anti-M2  
\*Anti-Histone  
\*Anti-RNP  
\*Anti-SSB  
\*Anti-SSA

## Others

GH(hGH)  
IGF-I  
Cortisol  
ACTH

\* Available soon

# MAGLUMI™ 600

## 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 16 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

- 4 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
- Laptop (Dual-core CPU)

#### Interconnection

- Bi-communication with LIS via ASTM protocol

#### Dimensions Weight

- Input: AC 110-230V, 50/60HZ
- Dimension and weight: 90 X 56 X 50cm 56kg



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