

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 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 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
 β_2 -MG
Calcitonin
Proinsulin
*H.pylori IgA
*H.pylori IgM
*proGRP
*AFP-L3
*HE4
*PIVKA-II
*HER-2

Bone Metabolism

Intact PTH
Calcitonin
Osteocalcin
25-OH Vitamin D
Intact PTH
* β -CTX
*PINP

Inflammation Monitoring

hs-CRP
PCT (Procalcitonin)
*IL-6

Anemia

Vitamin B₁₂
Ferritin
Folate (FA)

Fertility

FSH
LH
HCG/ β -HCG
PRL
Estradiol
Progesterone
free Estriol
Testosterone
free Testosterone
DHEA-S
17-OH Progesterone
AMH
*SHBG
*Androstenedione
*PIGF
*sFlt-1

Thyroid

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

Prenatal Screening

AFP (Prenatal Screening)
Free β -HCG
PAPP-A
HCG/ β -HCG
free Estriol

Glyco Metabolism

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

Kidney Function

β_2 -MG
Albumin

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

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
H.pylori IgG
*H.pylori IgA
*H.pylori IgM
*Anti-HBc IgM

Drug Monitoring

CSA (Cyclosporine A)
FK 506 (Tacrolimus)
Digoxin

Cardiac

CK-MB
Troponin I
Myoglobin
NT-proBNP
Aldosterone
Angiotensin I
Angiotensin II
D-Dimer
LP-PLA2
hs-cTnI
hs-CRP
Direct Renin
*H-FABP
*BNP

Autoimmune

TGA (Anti-Tg)
TRAb
TMA
Anti-TPO
ICA
IAA (Anti Insulin)
GAD 65
Anti-IA2
*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-Histone IgG
*Anti-nRNP/Sm IgG
*Anti-SS-B IgG
*Anti-SS-A IgG

Others

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

* Available soon

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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: 88 X 56 X 50cm 56kg



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