

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 (H₂O₂) 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

COVID-19 Markers

COVID-19 IgG
D-Dimer
IL-6
Ferritin
PCT
CRP
cTroponin I
Myoglobin
NT-Pro BNP

Fertility

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

Prenatal Screening

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

Bone Metabolism

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

Thyroid

TSH (3rd Generation)
FDA 510(k) Cleared
T₄
T₃
FT₄
FT₃
Tg (Thyroglobulin)
TGA (Anti-Tg)
TRAb
TMA
Anti-TPO
Rev T₃
Intact PTH

Glyco Metabolism

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

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

Kidney Function

β_2 -MG
Albumin

Inflammation Monitoring

hs-CRP
PCT (Procalcitonin)
IL 6

Autoimmune

TGA (Anti-Tg)
TRAb
TMA
Anti-TPO
ICA
IAA (Anti Insulin)
GAD 65
Anti-IA2
Anti-CCP
Anti-dsDNA
ANA
ENA
Anti-Sm
Anti-Ribosomal-P
Anti-Scl-70
Anti-CENP-B
Anti-Jo-1
Anti-M2
Anti-Histone
Anti-RNP
Anti-SSB
Anti-SSA

Anemia

Vitamin B₁₂
Ferritin
Folate (FA)

EBV

EBV EA IgG
EBV EA IgA
EBV VCA IgG
EBV VCA IgM
EBV VCA IgA
EBV NA IgG
*EBV NA IgA

Others

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

Drug Monitoring

CSA (Cyclosporine A)
FK 506 (Tacrolimus)
Digoxin

Immunoglobulin

IgM
IgA
IgE
IgG

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

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

* 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: 90 X 56 X 50cm 56kg

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