

MAGLUMI[®] 600

Fully Automatic Chemiluminescence Immunoassay (CLIA) System





Outstanding Technologies

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 (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.



Broad CLIA Test Menu with 211 Assays



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
*GP73

TORCH

Toxo IgG
Toxo IgM
Rubella IgG
Rubella IgM
CMV IgG
CMV IgM
HSV-1/2 IgG
HSV-1/2 IgM
HSV-1 IgG
HSV-2 IgG
*HSV-2 IgM
*HSV-1 IgM
*Toxo IgG Avidity
*CMV IgG Avidity

STAT-X™

*hs-cTnl
*NT-proBNP
*Myoglobin
*D-dimer
*PCT
*CRP

EBV

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

Inflammation Monitoring

CRP
PCT (Procalcitonin)
IL-6 (Interleukin 6)
SAA (Serum Amyloid A)
*PCT (STAT)
*CRP (STAT)
*TNF-α

Kidney Function

β₂-MG
Albumin
*NGAL

Fertility

FSH
LH
HCG/β-HCG
PRL (Prolactin)
Estradiol
Testosterone
free Testosterone
DHEA-S
Progesterone
free Estriol
17-OH Progesterone
AMH
SHBG
Androstenedione
PIGF
sFit-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
*ZnT8
Anti-MPO IgG
*Anti-PR3 IgG
*Anti-GBM IgG
*Anti-Cardiolipin IgG
*Anti-Cardiolipin IgM
*Anti-Cardiolipin IgA
*Anti-Cardiolipin screen
*β2-Glycoprotein I IgG
*β2-Glycoprotein I IgM
*β2-Glycoprotein I IgA
*β2-Glycoprotein I screen
*Anti-tTG IgA
*Anti-tTG IgG
*DGP IgA
*DGP IgG

Hypertension

Direct Renin
Aldosterone
Angiotensin I
Angiotensin II
Cortisol
ACTH

Immunoglobulins

IgM
IgA
IgE
IgG

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

Infectious Disease

HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HBc IgM
Anti-HCV
Syphilis
Anti-HAV
HAV IgM
*HEV IgG
*HEV 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
SARS-CoV-2 Neutralizing Antibody
SARS-CoV-2 Ag
Monkeypox Virus Ag
Dengue Virus IgG
Dengue Virus NS1
*Dengue Virus IgM
*Chlamydia Pneumoniae IgG
*Chlamydia Pneumoniae IgM
*Mycoplasma Pneumoniae IgG
*Mycoplasma Pneumoniae IgM

Veterinary Testing

*cTSH
*cTT4
*vFT4

Glyco Metabolism

C-Peptide
Insulin
GAD 65
Anti-IA2
ICA
IAA (Anti Insulin)
Proinsulin
*Glucagon
*ZnT8

Cardiac

CK-MB
Troponin I
Myoglobin
hs-cTnl
hs-CRP
H-FABP
NT-proBNP
BNP
D-Dimer
Lp-PLA2
MPO
*HCY
*hs-cTnl (STAT)
*NT-proBNP (STAT)
*Myoglobin (STAT)
*D-dimer (STAT)

Coagulation Markers

D-Dimer
*TAT
*TM
*PIC
*tPAIC

Metabolism

Pepsinogen I
Pepsinogen II
Gastrin-17
GH (hGH)
IGF-I
IGFBP-3

Prenatal Screening

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

Anemia

Vitamin B12
Ferritin
Folate (FA)
EPO
RBC Folate

Drug Monitoring

Digoxin
CSA (Cyclosporine A)
FK 506 (Tacrolimus)

Bone Metabolism

Calcitonin
Osteocalcin
25-OH Vitamin D
Intact PTH
β-CTx
total P1NP

*Available soon

Technical Specifications

Reagent Feature	<ul style="list-style-type: none">● Flash chemiluminescence label–ABEI, with high sensitivity and long stability● Superpara magnetic microbeads separation technology, fast and efficient
Main Features	<ul style="list-style-type: none">● Throughput: up to 180 tests/hour● 24 hours ready-to-use● Time to first result:17 minutes
Modes of Operation	<ul style="list-style-type: none">● Random, Batch and STAT
Sample Loading	<ul style="list-style-type: none">● Up to 16 sample tubes● Continuous loading, STAT available● Barcode reader recognition or analyzer automatic numbered● LIS connection, automatic read sample information● Refrigerated sample area with independent power supply
Reagent Loading	<ul style="list-style-type: none">● 4 reagents on board● Continuous loading● RFID reading all info of reagent● Refrigerated reagent area
Reagent Integral	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● Clot detection● Liquid level detection● Automatic and optional ratio for high concentration sample dilution● Constant 36.8 ± 0.5°C incubation
Operation System	<ul style="list-style-type: none">● Windows 7, Windows 10● Laptop (Dual-core CPU)
Interconnection	<ul style="list-style-type: none">● Bidirectional LIS connection by TCP/IP and COM
Dimensions Weight	<ul style="list-style-type: none">● Input: AC 110/230 Vac, 50/60 Hz● Dimension and weight: 88 X 56 X 50cm 56kg

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