

MAGLUMI 2000 Plus

Chemiluminescence Immunoassay (CLIA) System

Technical Specifications

- Principle of Luminescence**
- Non-enzyme involved flash chemiluminescence, long stability of reagents
 - ABEI label, stable in acid and alkaline solution

- 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 sample 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**
- 25 reagents on board
 - Continuous loading
 - RFID reading all info of reagent
 - Refrigerated reagent area

- Reagent Features**
- Integrated kit, ready-to-use, no pretreatment required
 - Integrated kit including calibrators
 - Using superparamagnetic microbeads
 - 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 for reagent
 - Optional ratio for sample dilution
 - Auto dilution for high concentration sample
 - Constant 37°C incubation
 - 15-30°C Operating Temperature

- Operation System**
- Windows XP
 - HP compatible (Dual-core CPU)
 - Color touch screen

- Interconnection**
- Connection to LIS via COM or network card
 - Direct operation on LIS system to test

- Dimensions & Weight**
- 144×76×152cm, 228kg

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Shenzhen New Industries Biomedical Engineering Co., Ltd
(SNIBE Co., Ltd)

4/F, Wearnes Tech Bldg, Science & Industry Park, Nanshan
Shenzhen, 518057 CHINA
Tel: +86 755 26501514 Fax: +86 755 26654850
Email: sales@snibe.com Web: www.snibe.com



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Outstanding Technology Power of Maglumi

TEST MENU

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 (H₂O₂) 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.



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
TPA
PG I
PG II
SCCA
PCT
*HE4

Cardiac

CK-MB
Troponin I
Myoglobin
NT-proBNP
Aldosterone
Angiotensin I
Angiotensin II
D-Dimer

Drug Monitoring

Cyclosporine A
Tacrolimus, FK506
Digoxin

Inflammation Monitoring

CRP

*Under development

Thyroid

TSH
T4
T3
FT4
FT3
TG
TGA
TRAb
TMA
Anti-TPO
Rev T3

Hepatic Fibrosis

HA
P III P N-P
C IV
Laminin
Cholyglycine

Glyco Metabolism

C-Peptide
Insulin
IGF-I
*IGF-II
ICA
IAA
Proinsulin
GAD65

Prenatal Screening

AFP
free β-HCG
PAPP-A

Fertility

FSH
LH
HCG/β-HCG
PRL
Estradiol
free Estriol
Progesterone
Testosterone
free Testosterone
PAPP-A

Infectious

HBsAg
HBsAb IgG
HBeAg
HBeAb IgG
HBcAb IgG
HCV IgG
*HIV
*Syphilis

Bone Metabolism

Intact PTH
Calcitonin
Osteocalcin
25-OH Vitamin D

Anemia

Vitamin B12
Ferritin
FA

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

Kidney Function

β₂-MG
Albumin

Others

GH
Cortisol
ACTH
DHEA-S