

# MAGLUMI 1000

Chemiluminescence Immunoassay (CLIA) System

## Technical Specifications

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| Principle of Luminescence | <ul style="list-style-type: none"><li>Non-enzyme involved flash chemiluminescence, long stability of reagents</li><li>ABEI label, stable in acid and alkaline buffers</li></ul> |
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| Main Features | <ul style="list-style-type: none"><li>Throughput: up to 120 tests/h</li><li>24 hours ready-to-use</li><li>Time to first result: 17 minutes</li></ul> |
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| Modes of Operation | <ul style="list-style-type: none"><li>Random, Batch and STAT function</li></ul> |
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| Sample Loading | <ul style="list-style-type: none"><li>Up to 144 primary tubes</li><li>Continuous loading, STAT available</li><li>Analyzer auto numbered</li><li>Lis connection</li></ul> |
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| Reagent Loading | <ul style="list-style-type: none"><li>15 reagents on board</li><li>Continuous loading</li><li>RFID read all info of reagents</li><li>Refrigerated reagent area</li></ul> |
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| Reagent Features | <ul style="list-style-type: none"><li>Integrated kit, ready-to-use, no pretreatment required</li><li>Integrated kit include calibrator</li><li>Use superparamagnetic microbeads</li><li>RFID tag stored all info of reagent</li><li>RFID tag with built-in master curve</li><li>2-point calibration to adjust master curve</li><li>Calibration stability: max 4 weeks</li></ul> |
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| Other Features | <ul style="list-style-type: none"><li>Clot detection</li><li>Monitor for liquid level of reagent</li><li>Optional ratio for sample dilution</li><li>Auto dilution for high concentration sample</li><li>Constant 37°C incubation</li><li>15-30°C Operating Temperature</li></ul> |
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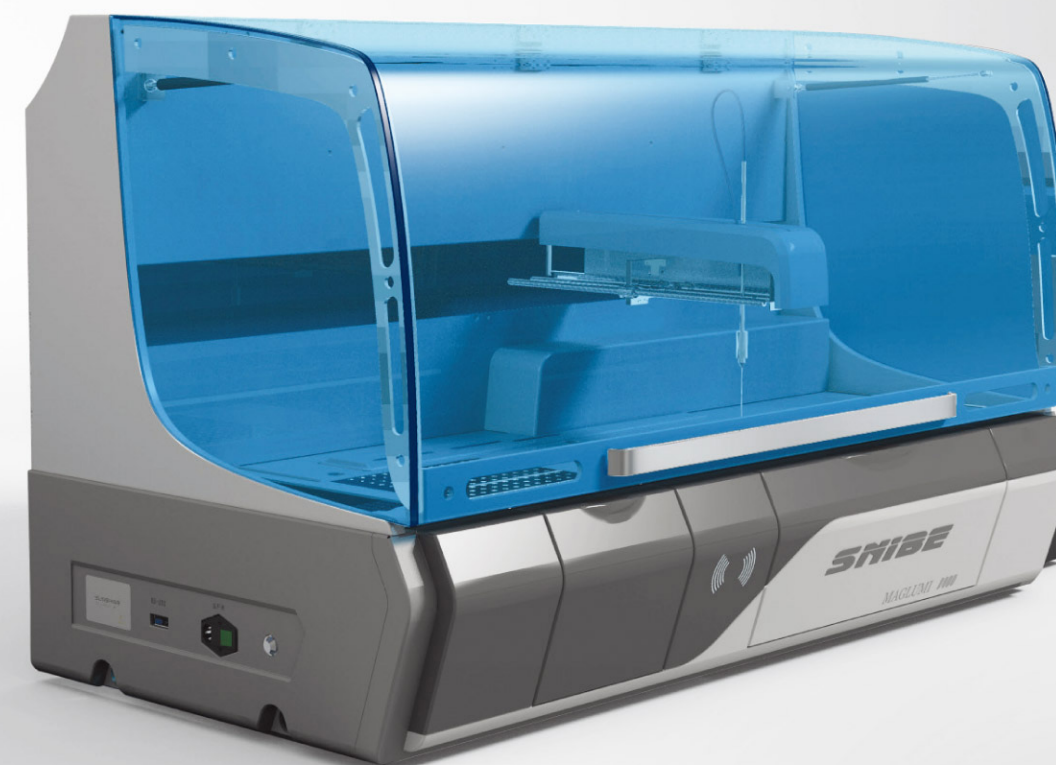
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| Interconnection | <ul style="list-style-type: none"><li>Connection to LIS via COM or network</li><li>Direct operation on LIS system to test</li></ul> |
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| Dimensions Weight | <ul style="list-style-type: none"><li>135×64×87cm, 148kg</li></ul> |
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# Outstanding Technology

## Power of Maglumi

### TEST MENU

## Chemiluminescence Immunoassay (CLIA) System

CLIA uses two important technologies, one is label technology which determines reactive 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 contains enzyme labels and other non-enzyme small molecule labels. 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 small non-enzyme molecule with special molecular formula to enhance stability in acid and alkaline buffer. As fast chemiluminescence, ABEI chemical reaction with sodium hydroxide (NaOH) and Hyperoxide (H<sub>2</sub>O<sub>2</sub>) finishes the process in 3 seconds.

### Separation Technology

Maglumi uses Nano Magnetic Microbeads, As separation technology, nano magnetic microbeads has been widely used in the field of CLIA. Compared with traditional separation technologies, it has four major advantages:

- It helps in enlarging the reaction area of antigens and antibodies to shorten the reaction time.
- Better and faster capture of the antigens and antibodies to enhance the sensitivity.
- As a liquid separation platform, it mixes thoroughly with the reagents to significantly reduce inter-or intra-assay discrepancies.
- Absorbs the antigens or antibodies through chemical reaction to enhance the accuracy.



### 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

### 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

### Cardiac

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

### Drug Monitoring

Cyclosporine A  
Tacrolimus, FK506  
Digoxin

### Inflammation Monitoring

PCT  
CRP

### Glyco Metabolism

C-Peptide  
Insulin  
IGF-I  
ICA  
IAA  
Proinsulin  
GAD65

### Prenatal Screening

AFP  
free  $\beta$ -HCG  
PAPP-A

### Fertility

FSH  
LH  
HCG/ $\beta$ -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

$\beta$ 2-MG  
Albumin

### Others

GH  
Cortisol  
ACTH  
DHEA-S