MAGLUMI 4000 Plus

Chemiluminescence Immunoassay (CLIA) System

Technical Specifications

Reagent Feature	● Flash chemiluminescence label – ABEI, fast and long stability ● Magnetic microbeads separation, high sensitivity and efficient
Main Features	● Throughput: up to 280 tests/hour ● 24 hours ready to use ● Time to first result: 16 minutes
Modes of Operation	● Random Access, Batch and Emergency mode
Sample Loading	● Up to 144 sample positions, can be extended to 280 ● Continuous loading, STAT available ● Barcode reader recognition or analyzer automatic numbered ● LIS connection, automatic read sample infomation ● Refrigerated sample area with independent power supply
Reagent Loading	● 25 reagent positions on board ● Continuous loading ● RFID reading all info of reagent ● Refrigerated reagent area with independent power supply
Reagent Integral	● Ready-to-use, no pretreatment required ● Buildit-in calibrators ● RFID tag storing all info of reagent ● RFID tag with built-in master curve ● 10 points master curve, 2 points calibration ● Calibration stability: Max 4 weeks
Other Features	● Clot detection ● Liquid level detection ● Automatic dilution with optional ratio for High concentration sample ● Constant 36.8 ± 0.5°C incubation ● Reflex tests with editable ranges
Operation System	● Windows 7 ● Color touch screen
Interconnection	● Bidirectional LIS connection by TCP/IP and COM
Dimensions Weight	● Input: AC 110/230 Vac, 50/60 Hz， Max 900W ● Dimension: 138cm×89cm×160cm（No monitor table） 208cm×89cm×160cm（Monitor table extended） ● Weight: 270kg

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Outstanding Technologies Power of MAGLUMI

Chemiluminescence Immunoassay (CLIA) System

CLIA uses two important technologies, one is labelling technology which determines reaction mode, and the other is separation technology which determines the sensitivity, accuracy and precision of the reagents.

ABEI Labelling Technology

Two types of labelling 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 solutions. The chemical reaction process of ABEI with sodium hydroxide (NaOH) and hyperoxide (H_2O_2) finishes in 3 seconds.

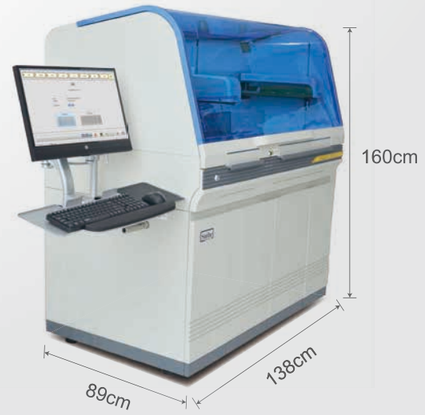
Magnetic Microbeads Separation Technology

MAGLUMI uses Magnetic Microbeads. As a separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technologies, 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 capturing of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.

Advantages of MAGLUMI 4000 Plus

- For labs and hospitals with high throughput
- Broad test menu to meet different needs and it is expanding according to your requirement
- Free Quality Control and calibrators help to reduce the cost per test
- Quality guaranteed by the third party quality control and External Quality Assessment (EQA)
- Key technologies of ABEI and Nano magnetic microbeads enhance stability and sensitivity of MAGLUMI reagents



MAGLUMI 4000 Plus

- Modular design and humanized appearance
- Simple and smart operation
- Compact size and weight

Pipettor

- Aspirate reagent / sample with high speed
- Titanium needle with crush-proof function
- Clot detection & liquid level detection
- Teflon coated for carry-over prevention
- Inner & external washing

Automated cuvette loader

- Capable of loading reaction modules continuously
- Up to 160 reaction modules, 960 tests
- Walk away time around 3.5 hours

Measuring Unit

- High-sensitivity and low-noise photo multiplier tube (PMT)
- Cuvette detection and anti-overflow

Modular Expanding Flexibility

- Capable to integrated several modulars including Snibe immunoassay, biochemistry and ISE modular
- Capable to link with Laboratory Automation system (TLA/LAS)

Pneumatic spring

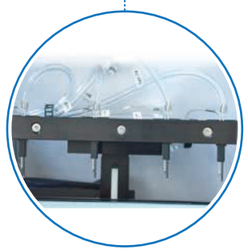
- Sample area door and reagent area door are equipped with damping brace, providing good user experience.

Sample area

- 144 positions with barcode reader, can be extended to 280 positions
- Continuous loading & cooling function
- Random access, Batch and Emergency mode

Convenient consumables placement

- Well designed drawer tray contribute to conveniently replace: wash liquid, waste liquid, starter 1, starter 2, waste cuvettes



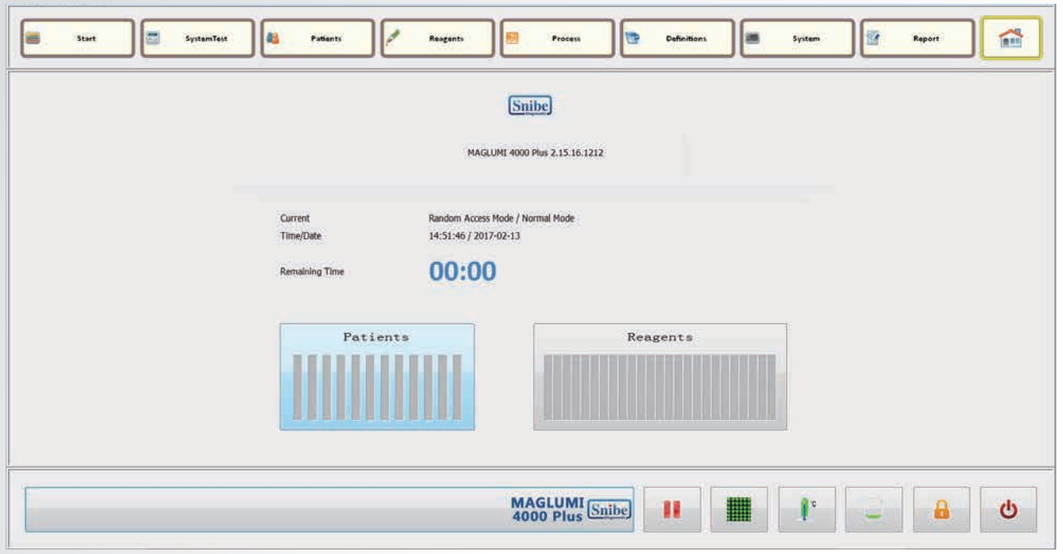
Patented Washer design

- Powerful washer with anti-overflow function
- Intelligent magnetic field design ensure good separation

Reagent area

- Cooling function ensures reagent stability
- 25 reagents on board, with continuous loading function
- RFID label storing reagent information
- Easy and fast adding and updating

Operation software



Comprehensive Software

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Multilingual support, 10 kind of languages more languages available by request

Maintenance Guide

- Smart Maintenance with step by step guide, ensure performance reliability and reduce unnecessary service calls
- Daily, weekly and monthly maintenance guide for analyer

Quality Control

- Westgard rules and Levey-Jennings chart for both internal and external quality control

Test Summary Function

- Test summary including system test, calibration, QC, statistics of samples, valid tests and rerun tests
- Search and review test information conveniently

Pre or Post Defined Dilution Function

- Pre- and post- dilution available for the case of high concentration sample

Bidirectional LIS Connection

- Bidirectional LIS connection by TCP/IP and COM

Test menu

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

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

Fertility

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

Autoimmune

More information about our autoimmune tests can be found at:

www.bioclia.de

Inflammation Monitoring

hs-CRP
PCT (Procalcitonin)
IL-6 (Interleukin 6)
*SAA (Serum Amyloid A)

Drug Monitoring

Digoxin
CSA (Cyclosporine A)
FK 506 (Tacrolimus)

Immunoglobulin

IgM
IgA
IgE
IgG

Kidney Function

β_2-MG
Albumin
*NGAL

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

Hypertension

Direct Renin
Aldosterone
Angiotensin I
Angiotensin II
Cortisol
ACTH

Infectious Disease

[redacted]
Anti-HCV
Syphilis
Anti-HAV
HAV IgM
[redacted]
Chagas
[redacted]
H.pylori IgG
H.pylori IgA
H.pylori IgM
2019-nCoV IgG
2019-nCoV IgM
*Anti-HBc IgM

Cardiac

CK-MB
Troponin I
Myoglobin
hs-cTnI
H-FABP
NT-proBNP
BNP
D-Dimer
Lp-PLA2
*MPO

Gastric Panel

Pepsinogen I
Pepsinogen II
Gastrin-17
H.pylori IgG
H.pylori IgA
H.pylori IgM

Prenatal Screening

[redacted]
free Estriol

Anemia

Vitamin B12
Ferritin
Folate (FA)
*RBC Folate

Glyco Metabolism

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

Bone Metabolism

Calcitonin
Osteocalcin
25-OH Vitamin D
Intact PTH
*β-CrossLaps (β-CTx)
*total P1NP

Growth

GH (hGH)
IGF-I
IGFBP-3

* Available soon