

MAGLUMI® 800

Fully Automatic Chemiluminescence Immunoassay (CLIA) System





Outstanding Technologies

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 (H₂O₂) 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:

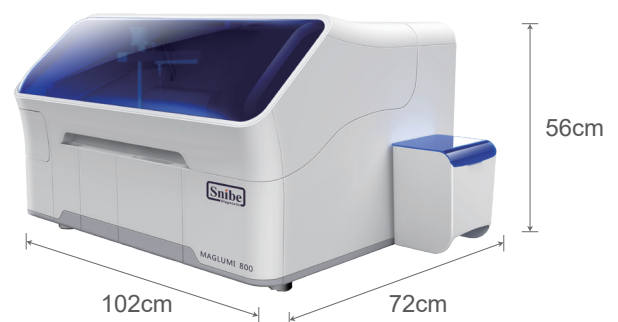
- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capturing of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.



Advantages of MAGLUMI® 800



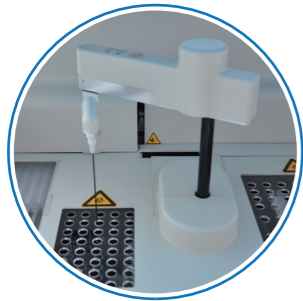
- For small and middle size labs or hospitals, simple and smart operation with integrated design and humanized appearance
- Simple, Smart, Humanization designed model
- More than enough test menu to meet the different needs and it will be extended according to your requirement
- Free quality control and calibrator help to reduce the cost of per test
- Quality guarantee by the third party quality control and external quality assessment (EQA)
- Key technology ABEI and magnetic microbead enhance stability and sensitivity of MAGLUMI® reagents





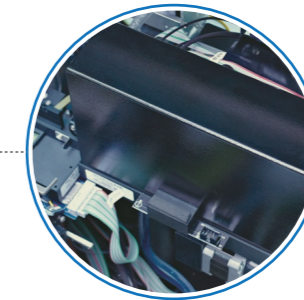
Functional Modules

Functional Modules



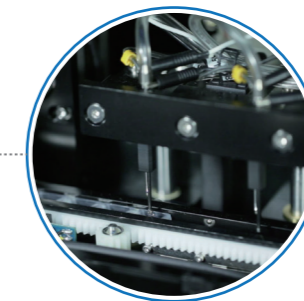
Pipettor

- Aspirate reagent / sample with high speed
- Titanium needle with crush-proof function
- Clot detection & liquid level detection
- Coated with TEFLON to prevent carry-over
- Internal & external washing



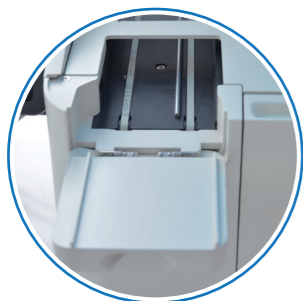
Chamber

- High-sensitivity and low-noise PMT
- Cuvettes detection and anti-overflow



Washer

- Strong magnetic field helps better separation
- Three pairs of washing needles with anti-overflow function



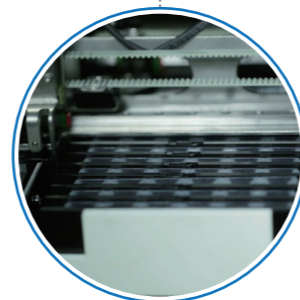
Automated cuvette loader

- Up to 40 modules of 240 tests
- Continuous loading



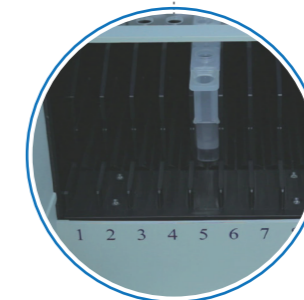
Sample area

- Up to 40 samples on board with barcode
- Continuous loading & cooling function
- Random, batch, and STAT mode



Incubator

- 13 Incubate slots (78 tests at the same time)
- The temperature is 36.8°C±0.5°C



Reagent area

- Up to 9 reagents on board with RFID
- RFID label storing reagent information
- Easy and fast for adding and updating
- RFID tag, high reliability



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 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 analyzer



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

Broad CLIA Test Menu with More Than 200 Assays



Thyroid

TSH (3rd Generation) ^{ROX}	FT3 ^{ROX}	TRAb
T4 ^{ROX}	Tg (Thyroglobulin) TMA	
T3 ^{ROX}	TGA (Anti-Tg)	Rev T3
FT4 ^{ROX}	Anti-TPO	T-Uptake

Bone Metabolism

Calcitonin	25-OH Vitamin D ^{ROX}	β-CTX
Osteocalcin	Intact PTH	total P1NP
*PTH (1-84)		

Hepatic Fibrosis

HA	C IV	Cholyglycine
PIIIP N-P	Laminin	GP73

Immunoglobulins

IgM	IgA	IgE	IgG
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Glyco Metabolism

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

Tumor Markers

AFP	PAP	SCCA
CEA	CA 50	TPA-snibe
Total PSA	CYFRA 21-1	ProGRP
f-PSA	CA 242	HE4
CA 125	CA 72-4	HER-2
CA 15-3	NSE	PIVKA-II
CA 19-9	S-100	*AFP-L3%

Anemia

Vitamin B12	EPO	*Anti-Intrinsic Factor
Ferritin	RBC Folate	*Active B12
Folate (FA)		

Hypertension

Direct Renin	Angiotensin I	Cortisol
Aldosterone	Angiotensin II	ACTH

Fertility

FSH	free Testosterone	SHBG
LH	DHEA-S	Androstenedione
HCG/β-HCG ^{ROX}	Progesterone	PIGF
PRL (Prolactin)	free Estradiol	sFlt-1
Estradiol	17-OH Progesterone	*Inhibin A
Testosterone	AMH	*Inhibin B

Infectious Disease

Respiratory	Hepatitis	Others
2019-nCoV IgG	HBsAg	HIV Ab/Ag Combi
2019-nCoV IgM	Anti-HBs	Syphilis
SARS-CoV-2 S-RBD IgG	HBeAg	Chagas
SARS-CoV-2 Neutralizing Antibody	Anti-HBe	HTLV I+II
SARS-CoV-2 Ag	Anti-HBc	<i>H.pylori</i> IgG
<i>Mycoplasma pneumoniae</i> IgG	Anti-HBc IgM	<i>H.pylori</i> IgA
<i>Mycoplasma pneumoniae</i> IgM	Anti-HCV	<i>H.pylori</i> IgM
<i>Chlamydia pneumoniae</i> IgG	Anti-HAV	* <i>H.pylori</i> Ag
<i>Chlamydia pneumoniae</i> IgM	HAV IgM	Dengue Virus IgG
*Respiratory Syncytial Virus IgM	*HBV Pre-S1 Ag	Dengue Virus NS1
*Coxsackievirus B IgM	*HEV IgG	*Dengue Virus IgM
*Adenovirus IgM	*HEV IgM	Monkeypox Virus Ag
*Influenza A Virus IgM		
*Influenza B Virus IgM		
*Legionella pneumophila IgM		
*Human Parainfluenza Virus IgM		

TORCH

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

EBV

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

Prenatal Screening

AFP (Prenatal Screening)	free β-HCG	*Inhibin A
free Estradiol	PAPP-A	

Cardiac

CK-MB	H-FABP	Lp-PLA2
Troponin I	NT-proBNP	MPO
Myoglobin	BNP	HCY
hs-cTnI	D-Dimer	*sST2
hs-CRP		

Autoimmune

Verfügbar ab 01. Oktober 2024

Inflammation Monitoring

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

Metabolism

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

Kidney Function

β ₂ -MG	Albumin	*NGAL
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Drug Monitoring

Digoxin	CSA (Cyclosporine A)	FK 506 (Tacrolimus)
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Coagulation Markers

D-Dimer	TM	tPAIC
TAT	PIC	*FDP

Veterinary Testing

cTSH	cTT4	vFT4
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*Available soon

Technical Specifications

Reagent Features	<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 40 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">● 9 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 $36.8 \pm 0.5^{\circ}\text{C}$ incubation
Operation System	<ul style="list-style-type: none">● Windows 7, Windows 10● Color screen
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, Max 630W● Dimension and Weight: 102*72*56cm 73kg

MAGLUMI® is a trademark of Snibe.

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

No.23, Jinxiu East Road, Pingshan District, 518122 Shenzhen,
P.R. China

Tel: +86 755 26501514

Fax: +86 755 26654850

Email: sales@snibe.com

Web: www.snibe.com

Follow us on



DISTRIBUTOR:

medac

medac GmbH
Theaterstraße 6
22880 Wedel
Germany

www.medac-diagnostika.de
Tel. +49 (0)4103 8006-8024
Email: diagnostika@medac.de

