

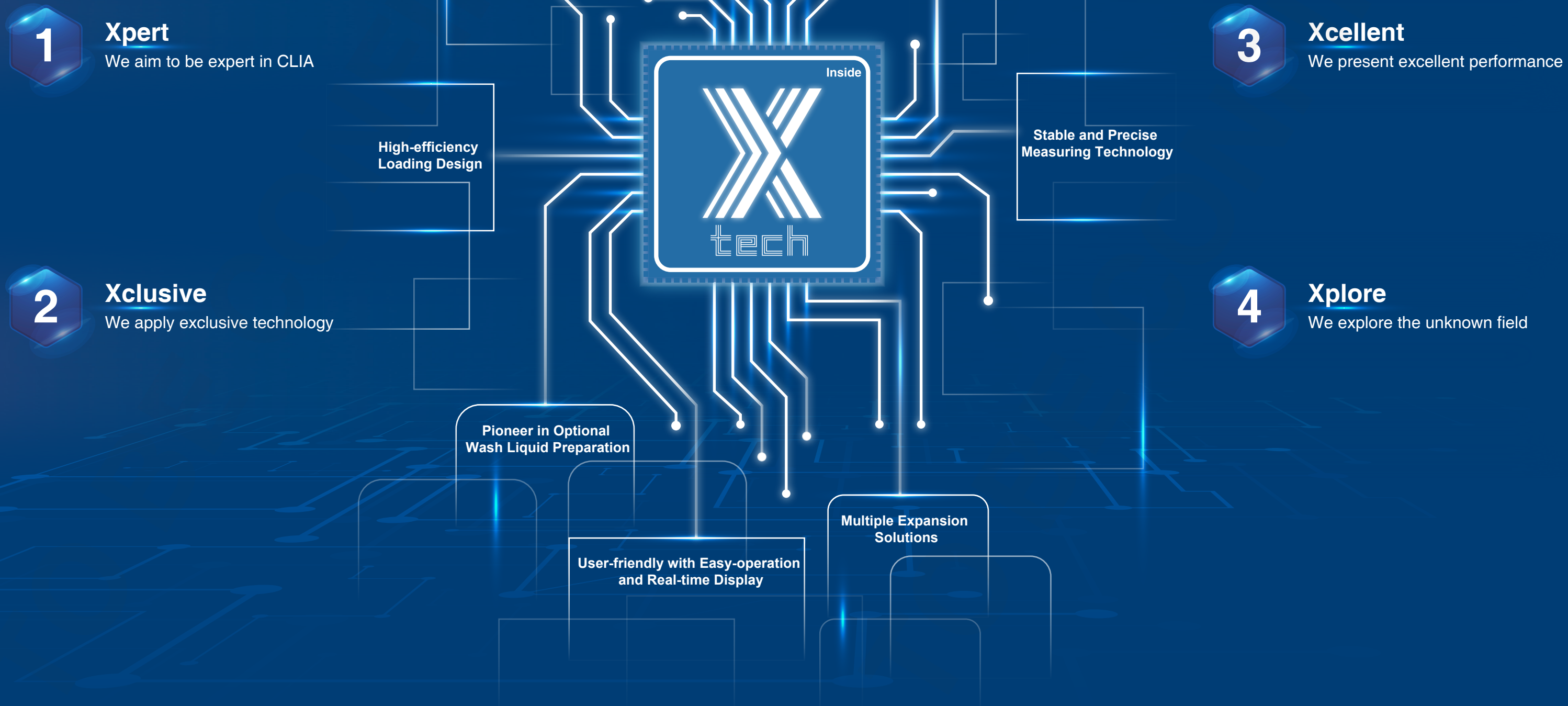
MAGLUMI[®] X Series

Fully-auto Chemiluminescence Immunoassay System

**All Balance
and
Strong**



CORE TECHNOLOGY — X-TECH



MAGLUMI® X3

Save Your Space without Compromise

Compatible with Small and Medium-sized Hospitals and Labs

200

Tests/Hour

< 0.68m²

Space
Occupied



72

Sample
Positions

20

Reagent
Positions

80

Incubation
Positions

Small but strong

- The throughput per unit area is 294 T/h/m²
- Compatible with all MAGLUMI® reagents with perfect compatibility (211 parameters)

Low failure rate and accurate result

- Reaction cup can avoid light pollution, ensuring the accuracy of results
- Integrated packaging of cuvette to avoid the stuck, blockage and scratches
- TEFLON-coated pipetting needle is equipped with independent washing unit to avoid carry-over, ensuring accurate results

Excellent performance

- The comprehensive advanced design of MAGLUMI® X3 ensures excellent performance, such as the latest intelligent washing technology and bidirectional temperature control measurement

Convenient and efficient

- No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests
- Intuitive indicator lights make no need to check reagents and consumables frequently

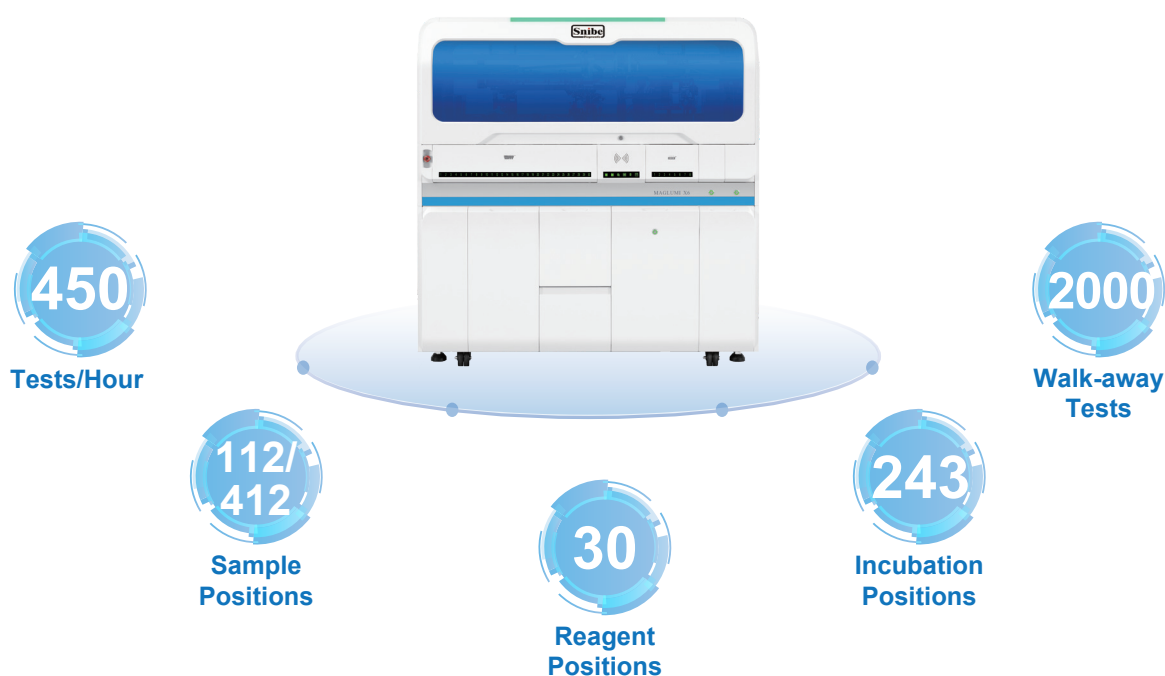
Cost-efficient and intelligent

- Saving consumable costs by not using disposable Tips
- Pipetting needle with three error detection technologies (liquid level /clot /crash), reducing error rate

MAGLUMI® X6

Flexible Combination Meeting Various Needs

Targeted for Medium/High-volume Laboratory



Fast and cost-efficient

- 450 T/H with mid-size, suitable for medium or high-volume laboratory
- Compatible with all MAGLUMI® reagents with perfect compatibility (211 parameters)

Convenience and high efficiency

- No-pause loading/unloading reagents/samples/consumables without interrupting tests
- One-stop, one-side operation saving space and steps
- Intelligent SnibeLinker® remote service solution to ensure the fast response

Flexible combination according to requirements

- Additional sample positions available that sample positions can expand to 412
- Capable to link Total Laboratory Automation System (TLA)

User-friendly design

- Up to 2000 walk-away tests to avoid high frequency of manual intervention
- Dual-mode wash liquid preparation—automatic or manual
- Intelligent UI interface, user-friendly, easy and convenient operation

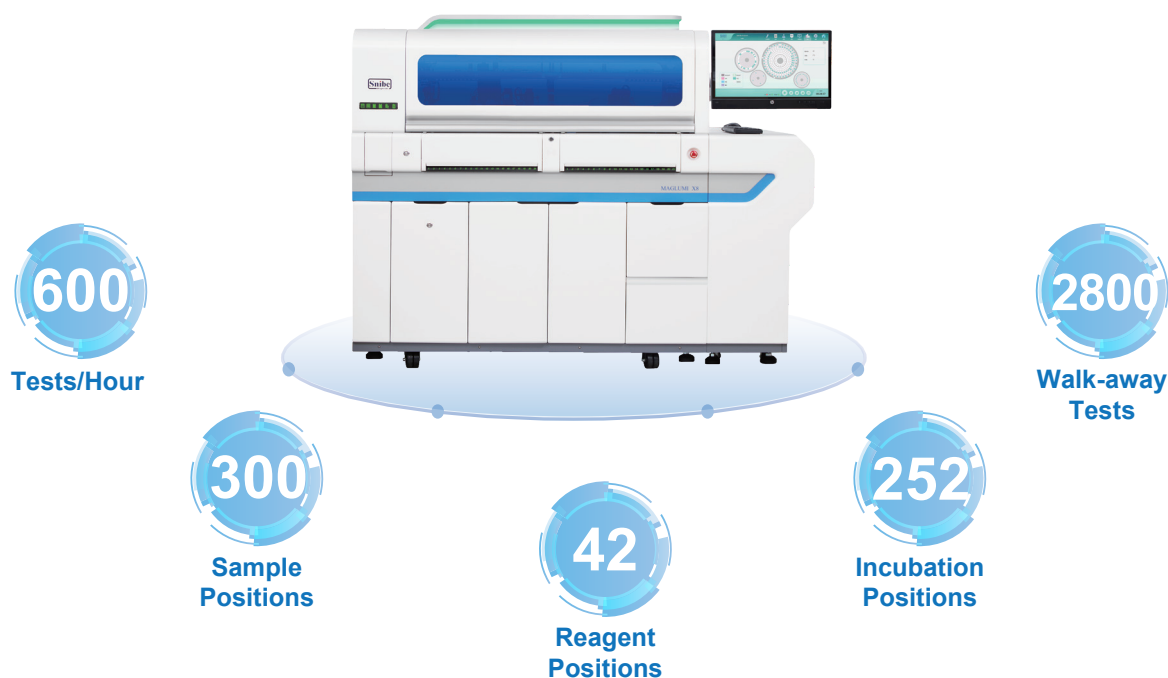
Advanced and accurate function

- A revolutionary pipetting volume from 10 µL to 280 µL with higher accuracy and low pipetting CV
- Four kinds of pipetting error detection technologies reduce sampling error rate

MAGLUMI® X8

Super-high Throughput CLIA Solution

Targeted for Large Labs, Chain Labs and Hospitals



Excellent performance

- One of the fastest CLIA analyzers with 600 T/H (Single module)
- Up to 2400 T/H (Four modules combined)
- Compatible with all **MAGLUMI®** reagents with perfect compatibility (211 parameters)

Saving manpower

- Long walk-away time—2800 tests, saving human labor greatly
- 2912 cuvettes loading in one time with fully cuvette loader, no need to add frequently

Advanced intelligence

- Capable to link Laboratory Automation system (TLA/LAS)
- Capable to integrate with **Biossays® C8** (high-throughput chemistry analyzer) and decapper module

Considerate design

- Multidimensional indicator lights, real-time monitoring the status of analyzer from a distance
- Dual-mode wash liquid preparation—automatic or manual
- Automatic reagent cover plate and double temperature mode reducing reagent volatilization and enhancing the stability of reagent kits on board

Convenient operation

- User-friendly interface, easy and convenient operation
- No-pause loading/unloading reagents/samples/consumables without interrupting tests

Outstanding Technologies — X-tech

■ Advanced Panted Pipetting Technology *



Panted pipetting technology for samples

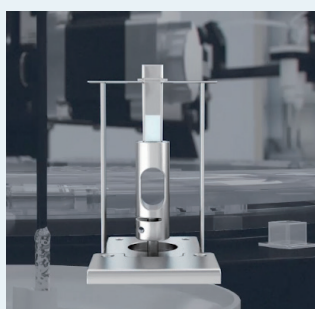
- A revolutionary pipetting technology with highly accurate volume, ensuring reliable results
- Four kinds of pipetting error detection technologies (liquid level /clot/bubble/crash detection) reducing error rate



Disposal filtered Tips

- Integrated packaging of disposal filtered Tips ensuring no cross-contamination and low failure rate, avoiding aerosol pollution
- One pipetting for multiple tests technology reducing test time and Tips cost

■ Accurate Incubation Technology



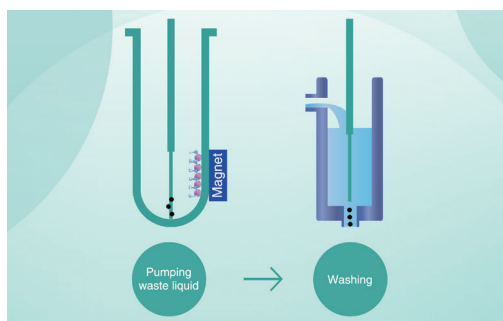
- **Non-contact mixing**
Before incubation, non-contact mixing with different modes ensures sufficient reaction
- **Accurate incubation**
Single cup design for each test with at least five-sided (X8 is 360°) incubation heating at $37 \pm 0.3^{\circ}\text{C}$, makes accurate, quick and uniform incubation

* For X6 and X8

Outstanding Technologies — X-tech

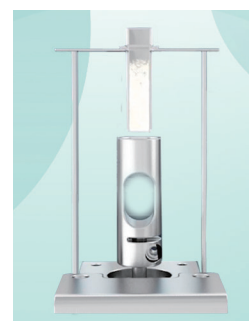
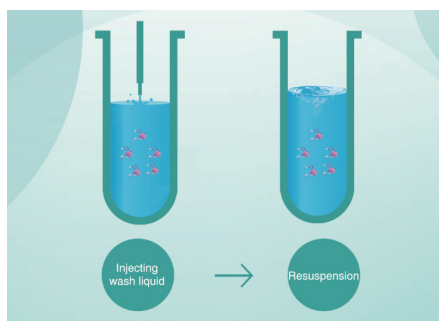
■ Exclusive Intelligent Washing Technology

Independent washing units for waste liquid needles



In the wash station, four waste liquid needles are equipped with four independent washing units to avoid the carry-over.

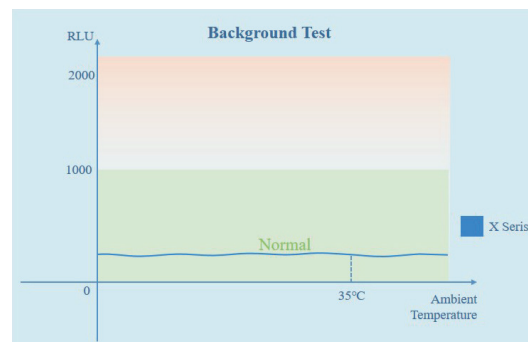
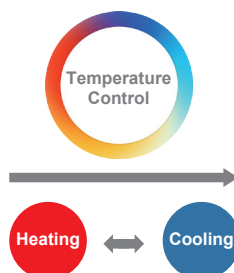
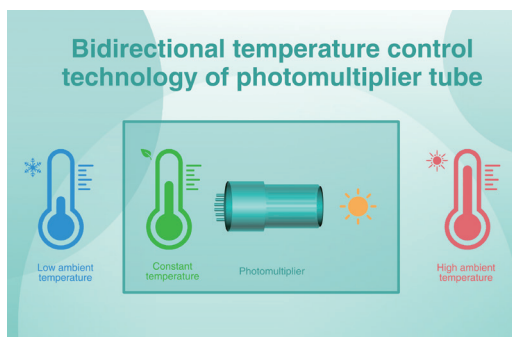
Magnetic separation washing and non-contact vortex mixing



Magnetic separation washing and non-contact vortex mixing units, with different mixing modes depending on different assays, ensuring a sufficient washing to reduce the non-specific binding.

■ Stable and Accurate Measuring Chamber

Bidirectional temperature control technology of photomultiplier tube

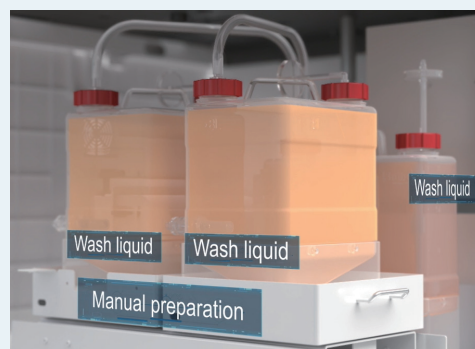
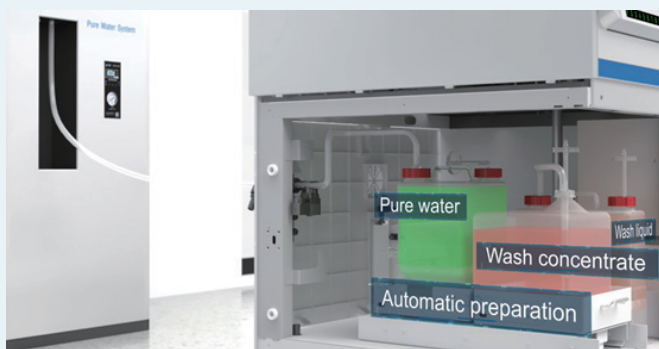


Automatic temperature control in the measuring chamber can keep a stable background value, not affected by the ambient temperature, ensuring the accuracy of measurement results.

Outstanding Technologies — X-tech

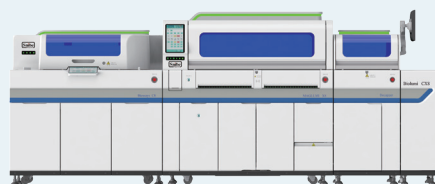
■ Pioneer in Optional Wash Liquid Preparation*

Dual-mode wash liquid preparation—Automatic or Manual

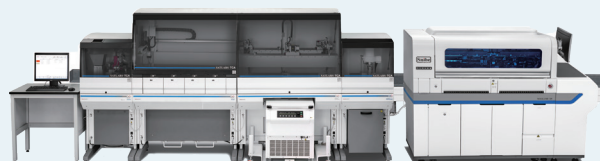
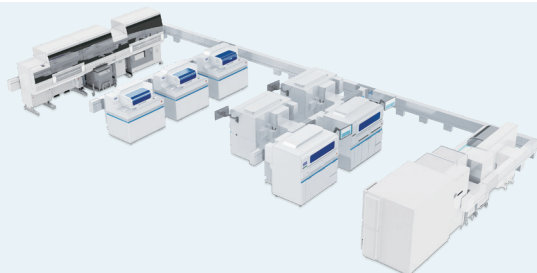


- Select Auto mode on the software, connect the X6/X8 to the water purification system, minimize your operational burden
- If water purification system is not available, the preparation can be done by manually mixing the wash liquid with pure water

■ Flexible Expansion Solutions*



- Same modules combined with high throughput and small space occupation
- Capable to integrate with Biossays® C8 (High-throughput Chemistry Analyzer)
- Capable to connect with decapper module



- Capable to link laboratory automation system (TLA/LAS)

* For X6 and X8

Key Technologies

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

■ Labelling Technology

The **MAGLUMI®** system applies ABEI labels. ABEI is a non-enzyme small molecule with special molecular formula to enhance stability in acid and alkaline buffer. Using fast Chemiluminescence, ABEI's chemical reaction with sodium hydroxide (NaOH) and Hyperoxide (H_2O_2) finishes the process in 3 seconds.



Reaction Cup



Disposal TIP



Starter 1+2



Wash Concentrate



Tubing Cleaning Solution



Light Check

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-cTnI
*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 Estradiol
17-OH Progesterone
AMH
SHBG
Androstenedione
PIGF
sFlt-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-cTnI
hs-CRP
H-FABP
NT-proBNP
BNP
D-Dimer
Lp-PLA2
MPO
HCY
*hs-cTnI (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 Estradiol

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



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