

LORVEN 6000

Fully Automated CLIA Analyzer



Technical Specifications

General information

Throughput	Up to 200 T/H
Measurement Principle	Alkaline phosphatase chemiluminescence method
First result	15 mins

Cuvette Loading and Waste Collection

Cuvette	Disposable plastic cuvette
Cuvette Loading	≥800, continuous loading, real-time reserve monitoring

Sample Assembly

Sample Feeder	Continuous loading
Sample Positions	50, STAT available
Types of Sample Tube	Micro sample cup, blood collection tube, plastic test tube
Sample Probe	Nanopolished probe, carry-over prevention, cross-contamination prevention
Sampling System	Automatic duplicate measurement, liquid level detection, horizontal and vertical collision protection, clot detection
Sample Volume	5~100 µL, with increment of 1 µL
Sample Dilution	Automatic dilution with 1:2~1:2500

Reagent Assembly

Reagent Positions	20, it can be expanded to 55 for allergens
Cooling System	2~8 °C, 24 hours on-board refrigeration
Reagent Scanning	Built-in barcode scanner, automatic barcode recognition
Reagent Probe	Nanopolished probe, carry-over prevention, cross-contamination prevention
Reagent loading	Random access, continuous loading
Reagent Volume	20~150 µL, with increment of 1 µL

Substrate System

Substrate Loading	Capable of continuous loading during test
Substrate Heating	Substrate pre-heating

Software System

Bidirectional LIS connection, independent reporting system

Magnetic Separation Unit

Separation Assembly	Dual washing system, 8-phase magnetic separation
Temperature	Accuracy: 37±0.3°C

Measurement and Reaction System

Detection Mode	Photon counting
Signal Detector	Photomultiplier (PMT)
PMT Calibration	LED reference module
Incubation Positions	101
Temperature	Constant temperature control
Mixing Unit	Intelligent adjustment of mixing speed, non-contact vortexer mixing

Working Conditions

Voltage Input	220V~ 50Hz
Input Power	1500VA
External Dimension	(L*W*H): 995mm×670mm×620mm
Net Weight	150kg

LORVEN 6000

Fully Automated CLIA Analyzer

More Compact

More Accurate

200 T/H

400+ items



- Multiple combination, single assay module repetition measurement
- Quantitative detection of autoimmune items, allergens, cytokines, thrombus and routine items
- Throughput: Up to 200 T/H
- Reagent positions: 20 (It can be expanded to 55 for allergens)
- Sample positions: 50

• Test Menu



Autoimmune



Cytokines



Thrombus

ANCA Associated Vasculitis

GBM
PR3
MPO
AECA IgG
Elastase*
CG-Ab*
BPI*
LF*

Thrombocytopenic Purpura

APA IgG

Inflammatory Bowel Disease

GAB IgG
GAB IgA
ASCA-IgG
ASCA-IgA

Type I Diabetes

ZnT8
ICA
GAD
IA2
IAA

Infertility

AMH
INHB
AOA-IgG
AOA-IgM
EM-IgG
EM-IgM
ASA-IgG
ASA-IgM
ZP-IgG
ZP-IgM
Anti-TA
HCG-Ab

Anti-phospholipid Syndrome

aCL-IgA
aCL-IgG
aCL-IgM
aCL-IgA/G/M
β2-GP1-IgA
β2-GP1-IgG
β2-GP1-IgM
β2-GP1-IgA/G/M
aPS/PT IgG
aPS/PT IgM
β2 GP1-Domain 1-IgG

IgG Subtype Related Disease

IgG1
IgG2
IgG3
IgG4

Anti-Myositis Antibody Profile

Mi-2
Ku
PM-Scl 100
PM-Scl 75
Myositis Jo-1
Myositis Ro-52
PL-7
PL-12
SRP
EJ
OJ
MDA5
T1F1γ
NXP2
SAE
HMGCR
Mi-2α
Mi-2β

Antinuclear Antibody (ANA)

ANA Screen
nRNP/Sm
Sm
SS-A
SS-B/La
P0
His
Nuc
dsDNA
PCNA
Scl-70
PM-Scl
Jo-1
AMA-M2
CENP-B
Ro52
ssDNA
α-Fodrin
ENA Screen
U1-RNP*
DFS70 IgG*

Autoimmune Bullous Dermatoses

Bmz
Dsg1
Dsg3
BP180
BP230

Membranous Nephropathy

PLA2R
THSD7A
C1q

Anti-Neuronal Antigen Profile

Hu
Ri
Yo
Ma2/Ta
CV2
Amphiphysin

Autoimmune Encephalitis Antibody Profile

NMDAR
AMPA1
AMPA2
LGI1
CASPR2
GABABR
IgLON5
DPPX
RF-IgA
RF-IgG
RF-IgM
RF-IgA/G/M
MCV
MMP-3
CCP
RA33

Rheumatoid Arthritis

Pernicious Anemia

PCA IgG
IF IgG

Interstitial Lung Disease

KL-6

Autoimmune Liver Disease

LKM-1
LC-1
SLA/LP
Ro52
sp100
gp210
SMA
AMA-M2
CENP-B
tTG IgA
tTG IgG
DGP IgA
DGP IgG

Celiac Disease

Cytokines

IL-12p70
TNF-α
IFN-α
IFN-γ
IL-1β
IL-2
IL-2R
IL-4
IL-5
IL-6
IL-8
IL-10
IL-17

Thrombus

TAT
TM
PIC
t-PAIC
FDP
D-Dimer



Allergen



Routine

TlgE

TlgE

Mixed Allergens

Inhalations Mix 1

House dust mite D1
House dust H1
Cat dander E1
Dog dander E5
Willow T12
Mugwort W6
Cockroach, German I6
Alternaria alternata M6

Food Mix 1

Egg white F1
Milk F2
Cod F3
Wheat F4
Peanut F13
Soybean F14

Dust Mite Allergen Components Specific IgE*

Der p 1
Der p 5
Der p 10
Der p 23
Der f 2
Der p 2
Der p 7
Der p 21
Der f 1

Egg Allergen Components Specific IgE*

Gal d 1
Gal d 3
Gal d 2
Gal d 4

Eosinophil Cationic Protein

ECP*

Milk Allergen Components Specific IgE*

Bos d 4
Bos d 6
Bos d 5
Bos d 8

Food Allergens

Sesame seed F10
Mango F91
Peanut F13
Pineapple F210
Soybean F14
Strawberry F44
Scallop F338
Apple F49
Crab F23
Peach F95
Shrimp F24
Egg F245
Cashew F202
Wheat F4
Pistachio F203
Beef F27

Hazel nut F17
Mutton F88
Almond F20
Codfish F3
Milk F2
Tomato F25*
Coconut F36*
Lobster F80*

Inhalation Allergens

House dust mite D1
Willow T12
House dust mite D2
Common ragweed W1
Cat dander E1
Mugwort W6
Dog dander E5
Cocklebur W13
Goosefoot W10
Bermuda grass G2
House dust H1
Common silver birch T3
Cockroach, German I6
Mountain juniper T6
Aspergillus fumigatus M3
Maple leaf sycamore,London plane,Plane tree T11

Alternaria alternata M6
Japanese Hop W22
Timothy grass G6
Penicillium chrysogenum M1
Cladosporium herbarum M2*
Elm T8*
Cotton, crude fibers O1*
House dust mite D201*
Cottonwood T14*
Cypress T23*
Pine T213*

Cardiac Markers

hs-cTnl
MYO
CK-MB
BNP
NT-proBNP
hs-cTnT
ST2
Lp-PLA2
D-Dimer
H-FABP
MPO Ag*

Inflammatory Diseases

HBp
PCT
IL-6
hs-CRP
SAA

Hypertension

Cortisol
ACTH
Renin
ALD

Bone Metabolism

25-OH-VD
hGH
PTH

Anemia

Vitamin B12
Folate

Hormone

β-HCG
LH
FSH
PRL
E2
uE3
TESTO
PAPP-A*
free-β-HCG*
Prog
SHBG*
ASD*
DHEA-S*
17α-OHP
FT

Tumor Markers

β2 MG
Fer
proGRP
CA72-4
CA50
CA242
AFP
G17
PACP*
t-PSA
f-PSA
CEA
CA125
CA15-3
CA19-9
NSE
CYFRA21-1
HE4
SCC
PG-I
PG-II
PIVKA-II*
S100-β

Brain Injury Markers

Thyroid Function

TT3
TT4
TG
Anti-TG
Anti-TPO
TSHR
TSH
FT4
FT3
rT3

Glucose Metabolism

C-Peptide
Insulin

Torch

RV IgG*
RV IgM*
Toxo IgG*
Toxo IgM*
CMV IgG*
CMV IgM*
HSV-1 IgG*
HSV-1 IgM*
HSV-2 IgG*
HSV-2 IgM*

Respiratory Pathogens

MP IgG*
MP IgM*
CP IgG*
CP IgM*
RSV IgM*
ADV IgM*
COXB IgM*
Ev71 IgM*
Lp IgG*
Lp IgM*

Hepatic Fibrosis

HA*
PIIINP*
CIV*
LN*
CG*

Preeclampsia

sFlt-1*
PLGF*

*: Coming soon