



Chemiluminescence Immunoassay Analyzer

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EXI 1820



CLIA



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EXI 1820 is a small benchtop automated chemiluminescence immunoassay analyzer with comprehensive test menu including SARS-CoV-2, thyroid, fertility, cardiac markers, inflammation markers, tumor marker, diabetes, bone metabolism and anemia. Compact design integrated with a number of patented technology to bring accurate results and convenient operation for small and medium-sized laboratories.

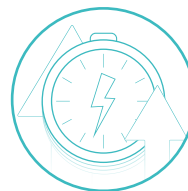


Features



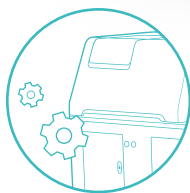
User-friendly

- Upgraded and intuitive software interface
- Customized maintenance procedure
- Cuvette automatic sorting, with up to 500 onboard
- Support replacement of consumables during operation



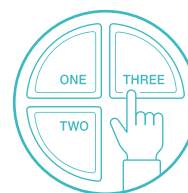
Efficient

- 1 independent STAT position
- 50 sample positions
- 20 reagent positions
- 15 min for the first result
- Support continuous loading



Intelligent

- Innovative magnetic separation technology
- Individual non-contact vortex mixing technology
- Constant temperature incubation system
- Support automatic retesting



Multiple

- Sample type: Serum, plasma, urine
- Sample rack: Different color for different sampling type
- Test mode: Random, batch, STAT
- Customizable reagent mixing rule

Test Menu

Thyroid	TSH, FT3, T3, FT4, T4, Anti-TPO, Anti-TG, TG, TRAb*
Fertility	PROG, TESTO, E2, PRL, LH, FSH, β -HCG, AMH
Inflammation	PCT, IL-6
Cardiac	MYO, cTnI, CK-MB, NT-proBNP, D-Dimer, BNP, Lp-PLA2*, ST2*
Diabetes	C-Peptide, INS
Tumor Marker	CEA, CA125, CA19-9, CA15-3, CA 50, CA 242, CA 72-4, Cyfra 21-1, SCCA, NSE, pro-GRP, HE4, Ferr, AFP, Total PSA, Free PSA, PIVKA-II*
Gastric Function	PG I, PGI, G-17
Renal Function	NGAL*
Anemia	Vitamin B12, Folate*, sTfR*
Hypertension	ACTH*, Cortisol*, Renin*, ALD*
Bone Metabolism	25-OH Vitamin D, iPTH*
Growth	GH*
SARS-CoV-2	SARS-CoV-2 antibody, SARS-CoV-2 neutralizing antibody, SARS-CoV-2 IgM, SARS-CoV-2 IgG
Infectious Disease	HBsAg*, Anti-HBs*, HBeAg*, Anti-Hbe*, Anti-HBc*, Anti-HCV*, HIV(Ag+Ab)*, Syphilis*
Coagulation	TAT*, PIC*, TM*, tPAI-C*, FDP*
Immunoglobulin	IgE*
Hepatic Fibrosis	HA*, LN*, IV-C*, PIIINP*
Pulmonary Fibrosis	KL-6*

* In Development



Technical Specifications

General Information	
Throughput	Up to 200 tests/hour
Measurement Principle	Micron superparamagnetic particles platform + ALP
Sample System	
Sample Feeder	Continuous sample loading and unloading
Test Mode	Random, batch, STAT mode
Sample Position	50
STAT Position	1 independent emergency sample position
Sample/Reagent Probe	1 Steel probe, has the functions of probe blockage detection, liquid level detection, volume tracking and 3D collision protection
Sample Volume	5-100μL, with increment of 1μL
Sample Type	Serum, plasma, urine
Sample Tube	Micro cuvettes and original blood sampling tube
Reagent System	
Reagent Position	20
Cooling System	2-8°C, 24h cooling
Reagent Pack	50 tests/kit, 100 tests/kit
Reagent Scanning	Built-in/External bar code reader
Reagent Volume	20-150μL, with increment of 1μL
Substrate Loading	Capable of continuous loading during testing
Substrate Heating	Constant heating
Incubation and Magnetic Separation System	
Incubation Temperature	37°C±0.3°C
Incubation Positions	100
Separation System	3-phase magnetic separation
Measurement and Reaction System	
Detection Mode	Photon counting
Signal Detector	PMT photon counter
Temperature	37°C±0.3°C
Mixing Unit	Non-touch vortex mixing
Operation System	
Windows 10 system, LIS, LAN port, RS232 port and USB port	
Cuvette Loading and Waste Collection	
Cuvette	Disposable cuvette
Cuvette Loading	Auto-loading, up to 500 cuvettes, continuous loading
Waste Collection	2 waste containers, 300 cuvettes per box
Working Conditions	
Power Supply	100-240V ~, 50/60 Hz
Input Power	900 VA
Operation Temperature	10~30°C
Relative Humidity	35% RH~85% RH, without condensation
Dimension	1060 mm*610 mm*620 mm (W*D*H)
Weight	145 Kg
Altitude Height	-400~3000 m



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