



Chemiluminescence Immunoassay Analyzer

EXI1820



CLIA



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EXI1820 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.

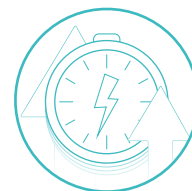


Features



User-friendly

- Intuitive software interface
- Easy access to all functions
- User maintenance free



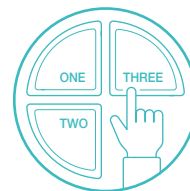
Efficient

- Up to 120 tests/hour
- Time to first result: 15 min
- 50 sample positions
- 20 reagent positions
- Sample and reagent continuous loading



Intelligent

- Walk-away system
- Cuvettes auto-loading, up to 500 cuvettes
- Automatically recognize reagent information
- Real-time consumables management and online consumables replacement



Multiple

- Sample type: Serum, plasma, urine
- Test mode: Random, batch, STAT
- Test menu: Comprehensive

Test Menu

Thyroid	TSH, FT3, T3, FT4, T4, Anti-TPO, Anti-TG, TG
Fertility	PROG, TESTO, E2, PRL, LH, FSH, β -HCG, AMH
Inflammation	PCT, IL-6
SARS-CoV-2	SARS-CoV-2 antibody, SARS-CoV-2 neutralizing antibody, SARS-CoV-2 IgM, SARS-CoV-2 IgG
Cardiac	MYO, cTnI, CK-MB, NT-proBNP, D-Dimer, BNP
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, Fer, AFP, Total PSA, Free PSA
Bone	25-OH Vitamin D
Gastric	PG I, PGII, G-17
Anemia	Vitamin B12

• In Development



Technical Specifications

General Information	
Throughput	Up to 120 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 Positions	50
Sample Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection
Sample Volume	5-130 μ L, with increment of 1 μ L
Sample Type	Serum, plasma, urine
Sample Tube	Micro cuvettes and original blood sampling tube
Reagent System	
Reagent Tray	20 reagent position, continuous loading
Cooling System	2-8°C, 24h cooling
Reagent Pack	50 tests/kit, 100 tests/kit
Reagent Scanning	Built-in/External bar code reader
Reagent Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection
Sample Volume	5-130 μ L, with increment of 1 μ L
Substrate System Substrate Bottle	500 tests per bottle
Substrate Loading	Capable of continuous loading during testing
Substrate Heating	Constant heating
Incubation and Magnetic Separation System	
Incubation Temperature	37°C \pm 0.3°C
Incubation Positions	100
Separation System	3-phase magnetic separation
Measurement and Reaction System	
Detection Mode	Photon counting
Detection Position	50
Signal Detector	PMT photon counter
Temperature	37°C \pm 0.3°C
Mixing Unit	Non-touch vortex mixing
Operation System	
Windows 10 system, LIS, LAN port, RS232 port and USB port	
Flexible report printing	
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	550 VA
Operation Temperature	10-30°C
Relative Humidity	35% RH-85% RH, without condensation
Dimension	1060 mm \times 610 mm \times 620 mm (W*D*H)
Weight	135 Kg
Altitude Height	-400-3000 m



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EN-C-FG-EXI1820-I-20221229H

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