



شركة ساف الخليج الطبية  
SAAF GULF MEDICAL COMPANY

# Chemiluminescence Immunoassay Analyzer

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EXI1820



CLIA



## Chemiluminescence Immunoassay Analyzer EXI1820

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.

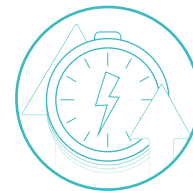


# Features



## User-friendly

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



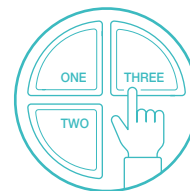
## Efficient

- 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

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|              |  |
|--------------|--|
| Thyroid      | TSH, FT3, T3, FT4, T4, Anti-TPO, Anti-TG, TG   |
| Fertility    | PROG, TESTO, E2, PRL, LH, FSH, $\beta$ -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   | 5-130µL, with increment of 1µL  |
| 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   | 5-130µL, with increment of 1µL  |
| 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±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±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×610 mm×620 mm (W*D*H)   |
| Weight  | 135 Kg  |
| Altitude Height   | -400-3000 m   |



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