

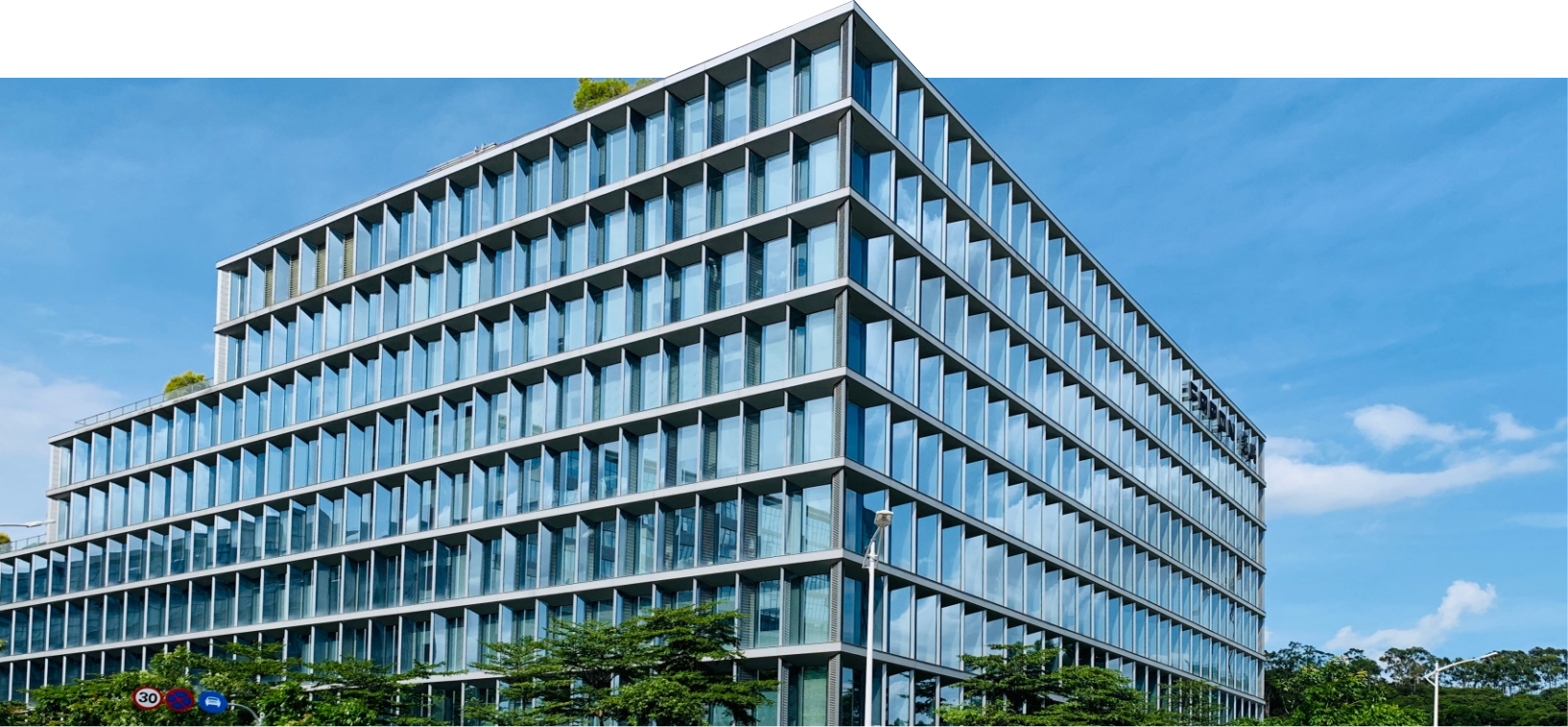
Shine i8000/9000

Series Automatic Chemiluminescence Immunoassay Analyzer

Efficient and intelligent solutions for large immunology labs



About Fapon Biotech



22⁺

Years of Experience

As a global leading IVD enterprise, Fapon Biotech Inc. (referred to as "Fapon Biotech") focuses on the future needs and trends of biotechnology development and is committed to providing global diagnostic companies with high-performance IVD raw materials, reagent solutions and innovative open instrument platforms.

730⁺

Patents

Fapon Biotech expects to promote the development of the diagnosis industry with partners based on Fapon IVD Ecosystem, to achieve the mission of "delivering earlier, more accurate, convenient and accessible diagnostics for everyone".

1400⁺

Products

Mission

Delivering earlier, more accurate, convenient and accessible diagnostics for everyone

2500⁺

Global Partners

Vision

Becoming a pioneering biotechnology organization and shaping the future of the industry

Fapon Biotech's CLIA solutions



Diversified portfolio

Instruments of high performance for different applications



Multiple options

4 different models AE/AP/HRP/ABEI



High performance

Seamless integration of dozens of patented technologies in an intelligently designed, highly precise system



Reliable quality

A comprehensive manufacturing management system for medical devices



Flexible cooperation

Multi-level, all-round cooperation and service support



Shine i8000 / 9000

Series Automatic Chemiluminescence Immunoassay Analyzer



Innovative design for higher throughput

- Up to 900 tests/hour, first result within 10 minutes, maximum throughput of 4 inline machines up to 3,600 tests/hour
- Double backup of key modules, high efficiency and no downtime
- Dry bath more stable and accurate temperature control
- Separate STAT port, basket, two ports for more efficient loading



Highly integrated design with stable performance

- Highly integrated and compact design, up to 377 tests/(h*m²)
- CV ≤ 3%, high precision
- Large-capacity hopper, up to 5,000 cups in one loading, cup feeding device of high stability, stable operation of the whole machine



Intelligent, easy operation

- Human-centered design with rotary screen, one-touch on/off
- Small volume loading, easy consumable loading and two substrate tubes for easy operation
- Optional RFID unit for more convenient reagent loading
- Optional automatic dilution unit for wash buffer



Safe washing & easier maintenance

- Multi-cycle magnetic washing and pipetting for cleaner instrument
- Separation between solid and liquid waste, reducing pollution
- Separate washing shield for more convenient maintenance



Open system

- Multiple CLIA platforms (AE/AP/HRP/ABEI)
- 1-4 inline machines to meet different testing needs
- Multiple interfaces and internet connection, allowing remote upgrade
- Compatibility with Shine series consumables

Technical Specifications

Overview

Assay Technology	Enzyme or direct chemiluminescence
Throughput	Up to 900 tests/hour
Time to First Result	≤ 10 minutes
Walkaway Time	> 6 hours

Sample Area

Loading Type	5 position rack, basket loading
Loading Capacity	Maximum 410 positions, including STAT and storage sample positions
Port	3 ports, including STAT, routine and return ports
STAT	2 separate emergency accesses with 10 STAT positions totally, guarantee priority sampling
Sample Material	Serum, plasma, whole blood, urine, etc.
Sample Volume	5–150 µL, recovery ≤ 5%, CV ≤ 2%
Sample Tube Type	Different types of tubes loaded together
Sample Probe Material	Steel probe with carry over ≤ 3 ppm
Sample Probe Function	Detection of liquid level, suction, anti-collision and clot
Sample Probe Washing	Surrounding vacuum washing with positive and negative pressure
Sample Dilution	Automatic dilution and fixed multiple dilution to ratio ranging 1:2–1:6400
Dilution Setting	Separate unit for dilution in multiple tests at steady speed
Wash Buffer Dilution	Optional, diluting concentrated wash buffer to arranged ratios

Reagent Area

Reagent Loading	2 trays
Reagent Position	60 positions in two trays
Cooling System	2–8 °C
Reagent Mixing	Non-touch magnetic bead mixing
Reagent sampling	Steel probe with small volume tracking, suction and anti-collision detection
Reagent Volume	10–200µL
Reagent Barcode	Barcode or RFID

Reaction Area

Volume	≤ 400µL
Incubation	Dry bath
Temperature	37 ± 0.2 °C
Time	Assay-dependent
Mixing	Contact-free eccentric vortex mixing
Washing	Multi-cycle magnetic washing, resuspension and mixing

Accessories & Consumables

Sample Cup	Simple operation with small volume loading
Substrate	2 tubes of custom volume to switch
Wash Buffer	2 bottles to switch, compatible with concentrated solutions
Liquid Waste Bottle	1 bottle to collect liquid waste from the entire system
Continuous Loading	Continuous reagent loading during operation, 2 substrate tubes
Liquid Waste from Sample Cup	Separation between solid and liquid waste

General Specifications

Electrical Requirements	220 V ± 10%, 50 Hz ± 1 Hz, ≤ 3 kW
Dimensions	2,364 (w) × 1,070 (d) × 1,500 (h) mm
Weight	Core unit 424 kg, SDM 152 kg

FAPON BIOTECH

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