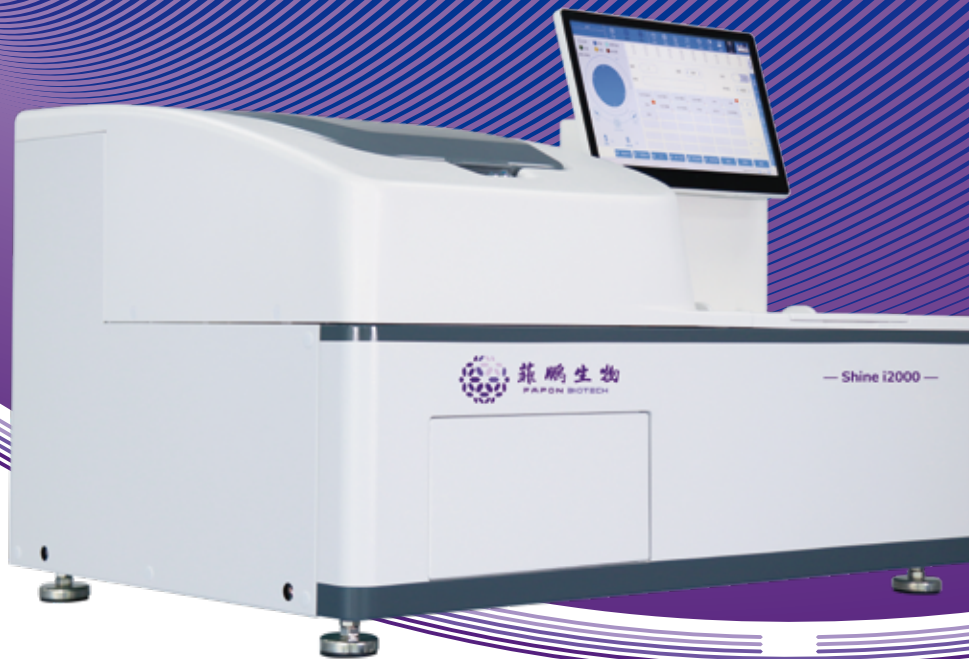




FAPON  
BIOTECH

Co-Creator of Diagnostic Ecosystem



# ONE-STOP SOLUTION FOR CHEMILUMINESCENCE IMMUNOASSAY

Customizable Analyzers, Reagents and Raw Materials for IVD Manufacturers



**Fapon Biotech Inc.**

- A global leading IVD reagent raw materials and one-stop solutions provider founded in 2001
- The largest IVD reagent raw material supplier in Asia, having over 50% market share in China
- The most comprehensive IVD reagent raw material platform in Asia providing 700+ antibodies, antigens and enzymes
- The most extensive product portfolio in Asia covering raw materials for ELISA, CLIA, CMIA, Rapid Test, Molecular Diagnostic and Biochemistry
- The preferred partner of the world's top diagnostic organizations, serving 700+ customers crossing from North America, Europe, the Middle East to the Asia Pacific



## Chemiluminescence Immunoassay Solution

Fapon is the benchmark for high quality in China's IVD reagent raw material industry. By acknowledging that the test performance and accuracy in the downstream market are heavily dependent on the raw materials used, Fapon adopted its unique insights and technologies of IVD raw materials to develop one-stop solutions. Chemiluminescence Immunoassay One-Stop Solution is one of Fapon's solutions that includes CLIA analyzers, reagents and raw materials to satisfy customers' needs in different application scenarios.



CLIA Analyzers



Reagent Service



Raw Materials

# Shine i2000 Fully Automatic Chemiluminescence Immunoassay Analyzer

+ Up to 200 T/H

+ ≤15 mins to first result

+ Compatible with AE/AP/HRP/ABEI assay protocols

Benchtop design, smaller size compares to other similar throughput analyzers

CV<3% within a batch

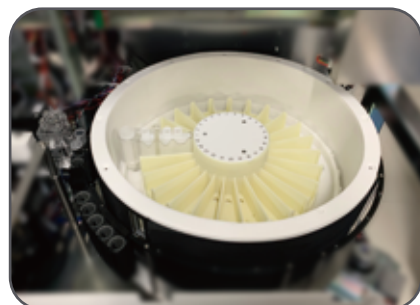
Result shows in 10 to 12-point calibration curve with 2 to 3-point verification

100% self-developed with 50+ patented technologies

STAT channels available

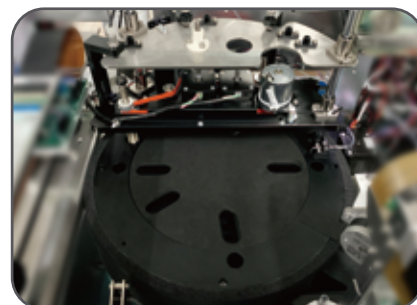
3hrs walk away capacity

Versatile reagents and consumables for use in Shine series



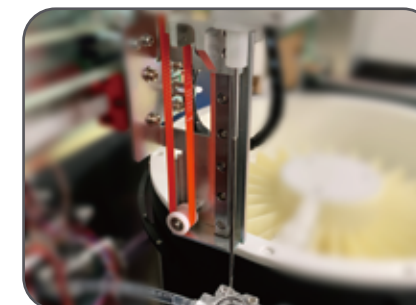
## Sample & Reagent Unit

- Innovative yet space-saving design to handle samples & reagents in one unit
- 2°C~8°C non-stop refrigerated reagent disk providing 25 positions



## Reaction & Analysis Unit

- 3 times magnetic separation washing
- 90 positions for incubation
- Excellent PMT detection system



## Sample & Reagent Probe

- Single sample & reagent steel probe with clot, bubble & liquid level detection
- High-pressure exterior & interior washing to minimize carry-over

## Technical Specification

### Overview

Principle:	Magnetic particles based enzyme (AP/HRP) or direct (AE/ABEI) CLIA
Throughput:	Up to 200 T/H
Time to First Result:	≤15mins

### Reagent Assembly

Reagent Disk:	25 positions, continuous loading during test
Cooling System:	2~8°C
Reagent Mixing:	Non-touch rotary mixing for magnetic particles
Reagent Volume:	10~200μl with increment of 1μl
Evaporation Control:	Anti-evaporation cover
Calibration Mode:	Optional

### Reaction System

Reaction Volume/Test:	≤400μL
Reaction Disk:	90 positions
Reaction Temperature:	37±0.3°C
Reaction Time:	Flexible, depending on assays
Reaction Mixing:	Non-touch vortex mixing

### Power Information

Power Requirements:	100~240V, 50/60Hz
Input Power:	1000VA

### Accessories & Consumables

Assay Cup:	Disposable plastic cuvette
Assay Cup loading:	500 cups, continuous loading and offloading
Substrate Bottle:	500 tests
Substrate Loading:	2 bottles to load continuously during test
Wash Buffer:	10 L/bottle
Solid Waste:	500 assay cups per container
Liquid Waste:	1 barrel

### Sample Assembly

Sample Feeder:	By sample racks
Sample Capacity:	60 positions (10 samples per rack with 6 racks)
Sample Probe:	Single steel probe for both sample & reagent
Probe Detection:	Clot, bubble & liquid level detection
Sample Material:	Serum/Plasma/Urine
Sample Volume:	10~150μl, with increment of 1μl
Carryover:	< 10 ppm
Sample Dilution:	1:2~1:40
Barcode:	Code 39; Code 128; Codabar (USS); Interleaved 2/5W

### Operation Environment

Operating Temperature:	10~30 °C
Humidity:	≤85% (noncondensing)
Atmospheric Pressure:	70.0 kPa~106.0 kPa
Altitude:	≤2000m

### Physical Information

Dimensions (mm):	1000L*670W*640H
Weight:	≤175 kg

\*Reagents are in development and coming soon



**FAPON**  
BIOTECH

Enable Disease Identification Earlier,  
More Accurate, Convenient and Affordable

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