

# Specifications



## General Information

Measuring Principle: Acridinium ester direct chemiluminescence  
Throughput: 120T/H  
Time to First Result: ≤15 min  
Walk Away Capacity: 3 Hours  
Modes of Operation: Batch, Random and STAT mode

## Accessories and Consumables

Reaction Vessel Loading: Up to 200 pcs per batch  
Substrate: Up to 2 bottles  
Wash Buffer: 10 L / bottle  
Solid Waste: 200 RVs / container  
Liquid Waste: A 20 L container for waste liquid collection of the whole system

## Physical Specification

Structure: Desktop  
Weight: ≤38kg

## Sample Assembly

Sample Holder: Sample tray  
Sample Capacity: 30 positions  
Sample Type: Serum, plasma, whole blood, urine  
Sampling Method: Single steel probe for both sample and reagent  
Sampling Volume: 10-150μL  
Sample Probe: Liquid level, clot and bubble detection  
Sample Tube: Optional  
Sample Dilution: 1:2 - 1:40  
Barcode: Code 39, Code 128; Codebar, Int 2/5

## Reagent Assembly

Reagents Holder: Reagent tray  
Reagent Capacity: 10 positions  
Refrigeration: 2-8°C  
Evaporation Proof: Self-sealing  
Reagent Mixing: Non-touch rotary mixing for magnetic particles  
Reagent Volume: 10-200μL per ingredient  
Reagent Type: Ready-to-use reagents  
Calibration: Optional

## Operating Environment

Ambient Temperature: 10-30°C  
Relative Humidity: ≤85% without condensation  
Altitude: < 3000 m

## Reaction System

Reaction Volume / Test: ≤400μl/T  
Incubator Capacity: 52 positions  
Incubation Temperature: 37 ± 0.3°C  
Reaction Time: Depending on assays  
Reaction Mixing: Non-touch vortex and oscillation mixing

## Working Conditions

Power Supply: 100-240V, 50/60Hz  
Power Input: 1000VA  
Dimensions: 433 (L)×679 (W)×638 (H) mm (including touching screen)

\* Disclaimer: Cariad holds the right in modifying the model, specification and appearance of the product. Cariad reserves the right of final interpretation of the contents provided in this product brochure.

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**CARIAD**  
Andrology, Reproductive, IVF.

# CLA-120

## Full Automatic Chemiluminescence Immunoassay System

Integrated Chemiluminescence Solution for Reproductive Medicine



# CLA-120 Full Automatic Chemiluminescence Immunoassay System

This system is a benchtop and high-performance CLIA system, integrating various patented technology. It's applicable to different application scenarios: laboratory department, emergency, clinical department, physical examination center, and so on.



## Characteristics

### Innovative System

- Integrated testing: incubation, washing and detection all-in-one, improving efficiency
- Intelligent software: full automatic intelligent control technology, low system failure rate

### Excellent Performance

- Rapid detection: 120 T/H, first result in 15 minutes
- High precision: CV≤3%

### Compactness & Convenience

- Small: highly integrated and simplified patented design, comprehensive optimization of the spatial layout of functions
- User-friendly interface: integrated touch screen and machine body, all consumables online real-time loading

### High Sensitivity

- Direct chemiluminescence platform: direct chemiluminescence analysis system for magnetic particle acridinium esters, with higher sensitivity and faster luminescence

### High Reliability

- ISO13485 certificated
- Perfect medical device production management system

## Chemiluminescence Assays in Reproductive Medicine

### Fertility Test Menu

|       |       |        |
|-------|-------|--------|
| HCG   | PRL   | AoAb   |
| Prog  | E2    | AZPAb  |
| Testo | AMH   | EMAb   |
| LH    | INH B | AhCGAb |
| FSH   | AsAb  | ATAb   |

\* More are coming

### Cariad's Auxiliary Reagents

Human Chorionic Gonadotropin (HCG) Detection Kit

Progesterone (Prog) Detection Kit

Testosterone (Testo) Detection Kit

Luteinizing Hormone (LH) Detection Kit

Follicle Stimulating Hormone (FSH) Detection Kit

Prolactin (PRL) Detection Kit

Estradiol (E2) Detection Kit

Anti-mullerian Hormone (AMH) Detection Kit

Inhibin B (INH B) Detection Kit

Anti-sperm Antibody (AsAb) Detection Kit

Anti-ovarian Antibody (AoAb) Detection Kit

Anti-zona Pellucida Antibody (AZPAb) Detection Kit

Endometrial Antibody (EMAb) Detection Kit

Anti-human Chorionic Gonadotropin Antibody (AhCGAb) Detection Kit

Anti-trophoblast Antibody (ATAb) Detection Kit