Specifications

Program	Auxiliary Reagents from Cariad	
Seminal Plasma Zinc	Zinc Detection Kit (Endpoint Method)	100 Tests/Kit
Seminal Plasma Citric Acid	Citric Acid Detection Kit (Endpoint Method)	100 Tests/Kit
Seminal Plasma Neutral α-glucosidase	Neutral α-Glucosidase Detection Kit (Rate Method)	100 Tests/Kit
Seminal Plasma ACP	Acid Phosphatase Detection Kit (P-nitrophenol Method)	100 Tests/Kit
Seminal Plasma Fructose	Fructose Detection Kit (Endpoint Method)	100 Tests/Kit
Seminal Plasma α-glucosidase, Seminal Plasma Superoxide Dismutase (SOD), Seminal Plasma Carnitine, Seminal Plasma Uric Acid, Semen LD-X, Sperm Acrosin		

*More tests are coming

General Information

Throughput: 360 tests/hour (photometry)

Measuring Principle: Latex immunoturbidimetry, immunoturbidimetry, colorimetric method (kinetic and end-point)

Simultaneously Processed Programs: 15

Control Rules: Westgard multi-rule, twin plot

Sample Types: Semen

Pipette System

Type: 1 micro pipette for sample and reagent

Rinsing: Inside and outside with purified water

Pump: Micro syringe

Sample System

Sample Tray: Removable tray with sample tube holder on a turntable

Capacity: Up to 40 positions (handling of STAT available)

Sample Volume: 2.0-30.0μL, increment by 0.1μL

Sample Cross-contamination Rate: ≤ 0.05%

Reagent System

Reagent Tray: Removable tray with reagent bottle holder on a turntable

Capacity: 30 positions

Reagent Container Volume: 20mL, 40mL, 70mL

Reagent Volume: R1: 100.0 - 300.0μL; R2: 20.0 - 150.0μL increment by 1μL

Inventory: Calculation of remaining reagent volume available

Cooling: Cooling with peltier elements (2-8℃)

Reaction System

Reaction Cuvette: 80 permanent quartz glass cuvettes

Reaction Volume: 100.0 - 295.0μL

Reaction Cuvette cleaning: 8-step cleaning

Reaction Time: About 9 minutes

Temperature Control: Direct heating system

Incubation Temperature: 37 ± 0.1℃

Optical System

Spectroscopic System: Holographic diffraction grating technology ; Direct photoelectric and digital conversion

Light Source: Halogen lamp

Photometry: 12 wavelengths, monochromatic or bichromatic

Wavelength Range: 340 ~ 800nm

Absorbance Range: 0 ~ 3.0 Abs

Stirring System

Type: Stick type rotating stirrer

Working Environment and Others

Power Supply: AC220V±10%, 50 Hz, 600 VA

Humidity: 45 ~ 80%

Temperature: 15 ~ 30℃

Ambient Temperature Variation: ±2℃ /h

Cable Temperature Resistance Requirements: > 70℃

Water Consumption: Deionized water: ≤25 L/H

Dimension: 720 (L) x 540 (W) x 505 (H) mm

Weight: About 40 kg

BLA-360

Full Automatic Biochemical Analyzer

A pioneer in seminal plasma biochemical test traceability

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BLA-360
Full Automatic Biochemical Analyzer

BLA-360 is a Highly automated benchtop Biochemical Analyzer specialized for human seminal plasma quantitative diagnostics. Complete traceability in equipment, quality control and reagents.

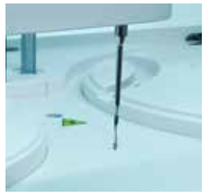
Advanced holographic diffraction grating technology

Precise Sampling Probe

- External and internal mirror polished components for extremely precise syringes
- Intelligent liquid level detection, collision avoiding and liquid volume monitoring
- Real-time clot detection
- Cross-contamination prevention
- Ceramic piston dispensing pump with excellent durability
- Sample volume increments: 0.1μL, reagent volume increment: 1μL.
- Intelligent pump cleaning, effective and precise micro-dispensing

Unique Mixing System

- Spiral Teflon-coated mixer to prevent cross-contamination efficiently
- Automatic frequency and speed adaption technology, adjustable and efficient mixing



Effective Cleaning System

- Cross-contamination and clot prevention
- Cuvette cleaning with 4 probes in 8 steps, reduce residual rate

Intelligent Reagent System

- Persistent refrigerated reagent bottle and intelligent temperature control (2-8° C), with better efficiency
- Optional bar code system

Reliable Reaction System

- Solid direct warming temperature control technology, which provides stable temperature and accuracy ±0.1° C
- Reagent, Cleaner and water pre-warming system
- Minimum reaction volume: 100μL

Advanced Optical System

- Holographic diffraction grating technology prevents interference from stray light.
- 12 steps wavelength: 340~800nm, with matrix Photodetector
- Photometric Modes: Monochromatic or Bichromatic
- Clustered, long-lasting point light source
- Direct photoelectric and digital conversion

Powerful Software

- Quantitative study of semen biochemical parameters
- Real-time consumable status display, graphical display residual reagent
- Online reagent loading/unloading, automatic sample dilution, priority detection of emergency samples
- Complete quality control management and intelligent reaction process monitoring
- Customizable report system, online report printing
- Multiple calibration types
- HL7 protocol, LIS and HIS support