



ARIS 100

Semi - Automated
Clinical Chemistry Analyzer

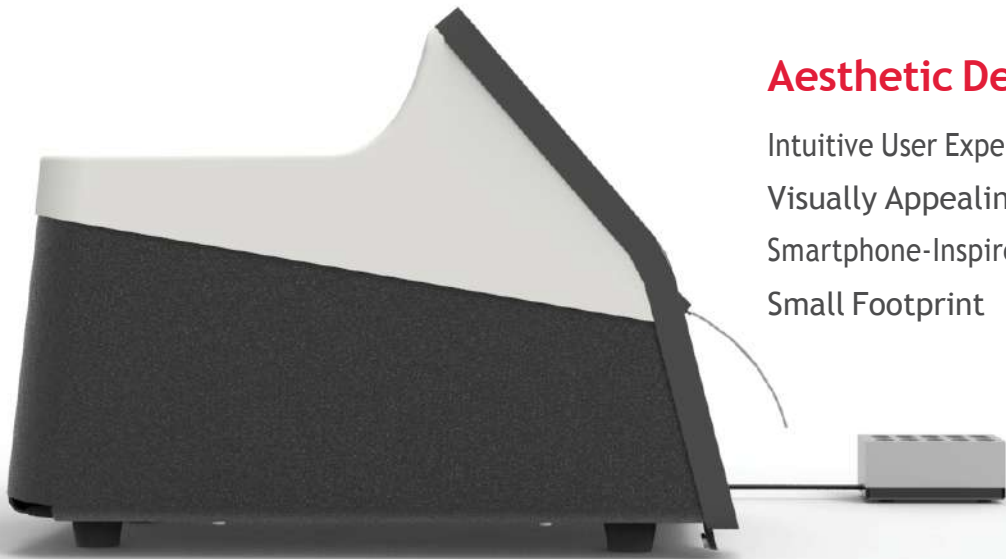
Seamless Workflow
Unmatched Precision





ARIS 100

The Best-in-Class Semi-Auto Analyzer



Aesthetic Design

- Intuitive User Experience
- Visually Appealing
- Smartphone-Inspired User Interface
- Small Footprint



Performance

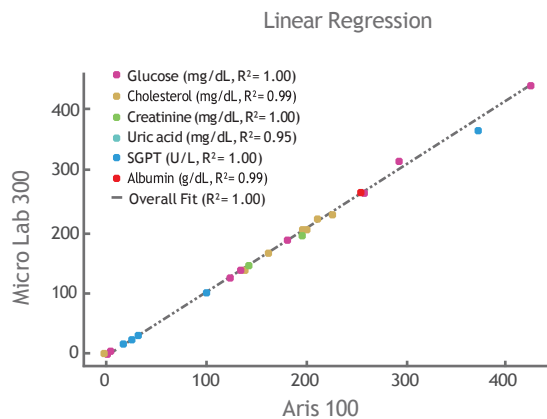
- Unmatched Precision ($< 1\%$)
- High Repeatability
- Low Carry-Over ($< 1\%$)
- Accuracy (99%)

Innovation at its Core

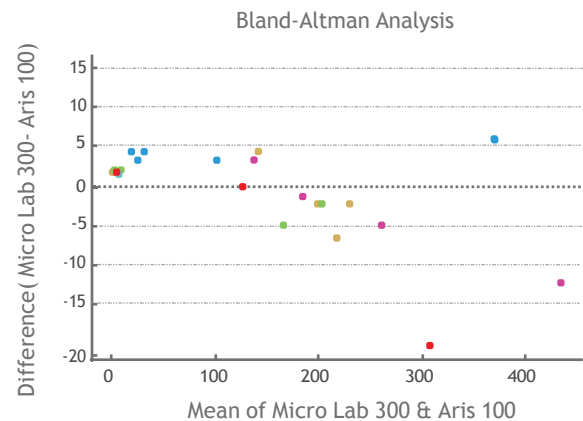
- Maintenance-Free Optical System
- High Quality Filters Ensure Extended Lifespan
- Accurate Temperature Control ($\pm 0.1\text{ }^{\circ}\text{C}$)
- Customized High-Precision Fluidic System

Setting a New Standard in Clinical Chemistry Analysis

Field Performance Validation



Demonstrates exceptional correlation across multiple biochemistry tests.



A comprehensive comparison between Microlab 300 and Aris 100, showing minimal bias, strong agreement across different tests and high measurement accuracy.

Exclusive Features Not Offered Elsewhere



Multiple User Logins & Activity Tracking



Built-in Digital Timers for Incubation



Software Update through online



Lamp Life Monitoring & Replacement Alert



Auto-Sleep Function
User-Enabled Lamp Replacement



Hyper-Active Sample Warning
Smart Dilution Recommendation



New Factor Confirmation for Calibration



Editable Standards & Absorbance



User-Controlled Calibrations/
Control Approval



Integrated LJ Plot & Westgard Rules for QC

Technical Specification

Photometric System

Photometric Range	:	-0.2 to 3.0 A
Wavelengths	:	8 Standard Filters 340, 405, 505, 546, 578, 630, 670 and 700 nm
Bandwidth	:	± 5 nm
Resolution	:	0.0001 Abs
Photo Diode	:	12 bit Silicon
Light Source	:	12 V/20 W Halogen Lamp with auto sleep function
Lamp Maintenance	:	User-enabled Lamp replacement
Measuring Time	:	2-999 Seconds

Temperature Control

Flowcell System	:	Peltier-based system with RT, 25 °C, 30 °C, 37 °C and 40 °C
Temperature Accuracy	:	±0.1 °C

Calibration Methods

- Factor
- 1- Point Standard
- 2- Point Standard
- Linear Regression (up to 6 Standard)
- Point-to-Point (up to 6 Standard)
- 3PL, Log Logit (4PL) and Non-Linear Regression (Cubic Spline)
- Storage graph for previous 10 calibrations

User Interface & Storage

Display	:	7" Capacitive TFT Touch Display
Printer	:	Built-in 58 mm Thermal Printer
Storage	:	100,000 Patients results, 15 QC levels & 4 calibration history, LJ plot and summary

Flowcell

Flow-cell	:	Quartz (Special Optical glass)
Flow-cell Volume	:	20 µL (10 mm path length)
Reaction Volume	:	200-400 µL (Recommended)
External Cuvette	:	10mm Length manual cuvette

Fluidic System

Sipper Volume	:	200-5000 µL
Sipper Indicator	:	Aspiration Indicator Light
Purge Function	:	Air Purge between Tests to Prevent Carry-over

Method Options

- Absorbance, Endpoint, Kinetics, and Fixed-Time
- Sample Blank Option Available
- Options to Perform Test with or without a Reagent Blank
- Mono-Chromatic and Bi-chromatic

Quality Control

QC Level	:	Multi-Level QC per test
Plot Option	:	Levey-Jennings (LJ) control plot and summary
Test Replicates	:	SD, Mean and CV displayed
Error Detection	:	Westgard rules-based High/Low flagging

User Programming

Test capacity	:	Up to 200 user defined Tests
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Device Specification

Power	:	100~240VAC, 50-60Hz, 120W
Weight	:	5 kg
Dimension	:	340 mm (L) x 270 mm (W) x 160 mm (H)
Operational Condition	:	Temperature 15 °C to 40 °C, Humidity up to 80%

Exclusive Features Not Offered Elsewhere



Lamp Life Monitoring & Replacement Alert



Remote Software Update through online



Built-in Digital Timers for Incubation



Smart Dilution Recommendation



New Factor Confirmation for Calibration



Editable Standards & Absorbance



User-Controlled Calibrations/Control Approval



LJ Plot Integrated with Westgard Rules for QC

Order Information

Order Code: ELBM-CCA-01

Description: Aris 100 Semi-automated Clinical Chemistry analyzer with all the standard accessories (Power adaptor and wash bottle)



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