

iChem

Semi Automatic Biochemistry Analyzer



Innovative Design, Smart Combination

- * Real time colored graph and absorbance.
- * Windows Embedded Compact 7
- * 7" Inch True Color Touch Screen
- * 300 Programmable Test
- * 1,000 Result Storage With Editable Patient Information
- * Universal Power Supply (external Power Adaptor)

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Technical Specification

Test Method

- * End Point With Standard/Factor
- * Two Point Kinetics (Fixed Time)
- * Multipoint Kinetics
- * Multi standard up to 8 standards
- * Biochromatic, Dual Wavelength
- * Absorbance

Display & Input System

- * 7" inch color touch screen

Printer

- * Inbuilt Thermal Printer (57mm)

Optical System

- * Principle: Photometric Analysis with Interference Filter
- * Absorbance Range: 0.0000-3.0000
(Linearity: $\pm 1\%$, Repeatability: 0.001, Resolution: 0.0001)
- * Spectral Range Selection: Automatic Via Filter Wheel
- * Wavelengths: 340, 405, 505, 546, 578, 630 nm
+ 2 Free Positions, ± 2 CML Precision
- * Light Source: 6 V 10 W Long Life tungsten Halogen Lamp
- * Detector: Photodiode

Suction System

- * Pressure Auto releasing Peristaltic Pump
- * Suction Volume: 300 μ l to 3.0 ml
- * Air Column facility after each sample to avoid carry over.

Operating Conditions

- * Temperature: 10°C~37°C
- * Relative Humidity: <85%

Cuvettes

- * Flow Cell: Quartz 32 μ l
- * Path Length: 10 mm
- * Removable Cuvette (Square and round)

Quality Control

- * Low-Jennings Chart Using Westgard's Rule
- * Auto Drawing of QC figures

Thermal System

- * Peltier Regulated 25°C, 30°C, 37°C & Room Temperature
- * Accuracy: $\pm 0.3^\circ\text{C}$

Test Parameter, Storage & CPU

- * Test Parameters: Up to 300
- * 1,000 test results with editable patient information
- * Storage of Quality Control And standard results

Power Requirement/ Dimensions

- * Voltage: 100-240 V AC (Auto Adaption)
- * Frequency: 50/60 HZ
- * External Power Adaptor: 19 V 4.7 Amp
- * Dimensions: 300X250X140 (L*W*H)
- * Weight: 5 Kg

Registered Address: Ground Floor Plot no -183 Pocket N, Sector-2, DSIIDC, DSIIDC Industrial Area, North West, Delhi, 110039

Work Address: Industrial Unit - 39 Block- B, Sector- 63 Noida Gautam Buddh Nagar, Uttar Pradesh- 201301

Phone: +91 8077818101

Email: ampl2207@gmail.com; info@accuremedical.in

www.accuremedical.in