

MQ Biochemistry Analyzer

Cat No: CHA-M-35

MOLEQULE-ON[®]



Description

MQ Biochemistry Analyzer is a semi-automatic sophisticated laboratory instrument designed to analyze various biochemical parameters in biological samples. It is a versatile device for Enzymes, Substrates, Therapeutic Drugs, Electrolytes, Turbidimetry and Coagulation analysis. It can function to measure Absorbance, End Point with standard / factor, Kinetics, Fixed time, Differential, Coagulation and Multipoint up to 10 standards.

Features

- Sample type: serum / plasma / CSF / urine / whole blood / hemolysate.
- Triplicate calibration mode for EP / KIN / Fix time.
- Triplicate mode of sampling with mean / SD / CV.
- End point method - Storage of abs of reagent blank in memory / 10 graphs for KIN test.
- For kinetic test: On line graph and OD, graph editing facility, estimation of result
- Air purge between samples to avoid carry over / lamp saver mode.
- 35 Direct test keys for test selection.
- Utility mode for self diagnosis checking / 16 bit ADC.
- Calculator for lipid profile / globulin ratio / S. Iron TIBC / bilirubin.
- Storage of 1000 test results in the memory with ID.
- Coagulation test like PT and APTT.
- User friendly software.
- Lamp Saver mode.

Specifications

Model	CHA-M-35	
Methods of Calculation	Absorbance, End point with Standard/Factor, Kinetics, Fixed time, Differential, Coagulation (PT & APTT) and Multipoint up to 10 standard	
Coagulation	INR/ISI value % / seconds, Auto / Manual Start, Parameters: PT/APTT, Filter: 405nm	
Optical system		
Principle	Absorption Spectrometry	
Range of Measurement	From -0.1 to 3.0A	
Nominal Spectral Range	Automatic via Filter Wheel	
Filters	340, 405, 450, 505, 546, 578, 630 and 700nm interference type	
Bandwidth	10 nm (± 2 nm)	
Light Source	Halogen lamp 12V / 20W or 6V/10W	
Zero	Automatic	
Settings	Monochromatic and Bichromatic readings	
Detector	Schottkey type Photodiode - Silicon	
Dry Bath Incubator		
13mm Diameter	15 Positions	
10mm Diameter	4 Positions	
Default Temperature	37°C + 0.2°C	
3 Inhibit Timers	T1/T2/T3	
4 Default Time	3 Min. / 5 Min. / 10 Min. / 15 Min.	
Temperature setting	25°C to 45°C	
LCD	Alpha Numeric 20 x 2 Lines	
Keyboard	Soft Tactile Switches	
Screen		
Screen	Graphic LCD 240 x 128 pixels	
Back Light	Blue LED Back Lit	
Keyboard	Soft Feather Touch Switch / USB Keyboard	
Programming		
Table of Tests	Up to 235	
Table of Units	Up to 9 units	
Storage	Quality control storage of the last 30 results	
Memory	1000 test results	
Cuvettes		Suction System
Flow cell of 32 ul		Continuous flow system with peristaltic gear pump
Removable cuvettes, Macro, Semi-micro and Micro Plastic or Glass		Sipping volume can be programmed from 100ul to 3ml
Thermostat System		Interface
Peltier regulated 25°, 30° and 37°C programmed / RT		RS-232 for PC Connection
Accuracy: $\pm 0.1^\circ\text{C}$		Parallel Port – For 80 Column Dot Matrix Printer
Quality Control		Power and Dimension
3 Controls per Test - Low, Normal and Abnormal		Maximum power: <110W
Levy-Jennings Charts		Voltage: 110-220V
Westgard's rules		Frequency: 50/60Hz