

LT-100

Semi Automated Clinical Chemistry Analyzer



- Versatile & easy to use
- Excellent performance
- Low maintenance
- Low reagent consumption
- Low cost per test
- Minimal training
- Fast flexible backup
- Fit & Forget

LT-100

Semi Automated Clinical Chemistry Analyzer

Technical Specifications

- User friendly software
- End point method - Storage of abs of reagent blank in memory / graphs for KIN test
- Triplicate calibration mode for EP / KIN / Fix time.
- Triplicate mode of sampling with / SD / CV
- Print out of laboratory and doctor's name
- For kinetic test : Online graph and OD, Graph editing facility, estimation of result
- Air purge between sample to avoid carry over / lamp saver made
- 50+ Direct test keys for test selection
- Utility mode for self diagnosis checking / 16 bit ADC
- Sample type : serum / plasma / CSF / urine / whole blood / hemolysate
- Calculator for lipid profile / globulin ration / S. Iron TIBC / billirubin
- Photometric range 0-3.0 Abs with resolution of 0.0001 Abs.



Method of Calculations

Absorbance

End Point

Fixed time with standard or factor

Kinetics

Differential / Coagulation - PT / APPT/

Multipoint upto 10 standards

Optical system

Principle : Absorption spectrophotometry

Measurement : From -0.1 to 3.0 a for

Spectral range : Automatic via filter wheel

Filters : 340, 405, 505, 546, 578, 630 & 670 nm
can be added three more filter

Bandwidth : 8nm(±2nm)

Light source : Halogen lamp 12v/20W or 6v / 10w

Zero : Automatic

Settings : Monochromatic and Bi-chromatic mode

Detector : Schottkey type photodiode - silicon

Thermostat : Flowcell / cuvette chamber

Accuracy : ± 0.1°C

Peltier regulated from 20°C in steps of 1 C

Cuvettes

Flow cell volume less than or equal to 35 µL with temperature programmable for 25C, 30C, 37C.

Reagent Aspiration Volume : 250 ul to 350 µL.

Cuvettes : Semi-micro plastic or glass.

Interface

Bi-Directional peristaltic pump / Sipping volume programmable from 50 uL to 1.0ml.

Suction System

Screen : Graphic LCD 240/128 pixels

Keyboards : Tactile Soft - Touch / USB*

Printer : Built-in 57 mm thermal printer

RS - 232 for pc connection

Parallel port for 80 column dot matrix printer*

Power / Dimensions

Voltage : 110-220 V / 50-60 Hz

Power Supply : <110W

Temperature : 10°C to 40°C Relative humidity ≤ 80%

Dimensions : 13mm diameter

Programming

Table of tests : up to 235

Table of units : up to 9 units (editable)

Memory : 50000+ test results

Quality Control

3 controls per test - Low, normal & high

Quality control storage

Levy-Jennings charts & Westgard's rules



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