MicroMedica® Laboratories
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MML - FA - 100

Fully Automated Clinical Chemistry Analyser (100T/ H)

Technical Specifications	
Item	Description
Throughput	• 100 test/hour
System type	• Discreet, open/ closed (Optional)
Sample	• Serum, Urine, Plasma, CSF, Other body fluids
Measurement principle	• Photometric and HIAS (Homogeneous Immuno Assays)
Wavelengths	• 9: 340,405,450,510,546,578,620,660,690nm
Photometer Linearity	• Up to ±3.0 Optical Density
Light source	• Halogen lamp (12V 20 W)
Programmable parameters	• 50 photometric tests
Assay modes	• End Point, Fixed time, Rate-A, MultiPoint Non Linear
Sample positions	• 25 for standard cups/ primary tubes/ STAT
Sample volume	• 2-50 µl (adjustable in 0.1 µl step)

STAT Sampling	• STAT sampling at any position
Reagent positions	• 25 for combination of 18mL and 5mL bottle size
Reagent volume	• 10 – 300 µl (adjustable in 1 µl step)
Reagent cooling	• 15°C below ambient room temperature (approx 25°C)
Reaction volume	• 150µl to 300µl
Level sensing and safety mechanism	• Vertical obstruction detection • Inventory management by Capacitance based sensing
Reaction temperature	• 37 °C± 0.2 °C
Calibration	• Max 6 calibrators per test with Calibrator auto-dilution
Calibration curves	• K-Factor, Linear (one, two and multipoint), Logit-log (4P and 5P), Spline, Exponential and Polynomial
Quality control	• Tri level Daily and Monthly L J Graphs with Multi QC Rules
Mixing type	• By paddle mixer with variable speed (Low/ Middle/ High)
Sample dilution	• Pre/Post dilution for >Linearity & Substrate Depletion
Sample and reagent tray	• Rotating turn table with insulating cover
Sample/Reagent Identification	• Positive Identification (barcoding) for samples& reagents
Cuvette washing	• 7 stages cuvette washing with drier chip

Data storage capacity	• Test results: 1,000,000, Reaction curve: 40,000 tests
Graph monitoring	• Online for Reaction and Calibration curve
Water consumption	• NCCLS Type II, 4.5 liters/hour (approx)
Noise level	• Less than 65 dB with cover closed
Weight	• Approximately 48Kgs

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