



NANOLAB 500

The Smart Choice for Today's Laboratory

Key features and benefits

- Continuous sample loading – easily accessibility to the sample sectors without the need to open the analyzer
- Barcode reading of samples and reagents
- Intelligent operating software with automatic reflexing testing, QC scheduling and automatic method calibration.
- Clot detection and probe collision prevention system for safe and reliable operation.

Trivitron Clinical Chemistry Reagents

In combination with the analyzer there are now CE marked tests in the Trivitron product portfolio to offer a comprehensive range of high quality clinical chemistry reagents, calibrators and controls which meet the needs of today's growing laboratories. The new tests include substrates, enzymes, electrolytes, lipids, specific proteins and special tests. All reagents have been specifically designed with the Trivitron automated analyzers in mind, so the combination of analyzer and reagents allows customers to enjoy features and benefits that are only normally possible on high cost Clinical Chemistry systems.

Technical Specifications

Throughput

- Up to 300 photometric tests/hr or up to 480 tests/hour with optional ISE module

Sample and Reagents

Samples

- **Sample volume:** 2 to 100 µl/test (in increments of 1 µl).
- **Sample tray:** 95 (5 racks x 19 positions).
- Primary tube (length up to 100 mm)
- Pediatric vial

Reagents

- **Reagent tray:** up to 72 single reagents
- Multiple vials per test
- Refrigerated compartment at 8 °C ± 1 °C

Sample and Reagents Handling

Reagents

- **Pipetting Arm:** One pipetting arm for sample and reagent, including reaction preheater, probe collision sensor, capacitive level sensor and reaction mixer.
- **Probe cleaning:** Internal and external

Reaction

- **Water consumption:** 1.5 l / hour (deionized)
- **Reaction cuvette:** 80 re-usable plastic cuvettes. Optical length: 6 mm
- **Reaction volume:** 180-500 µl
- **Warm air incubator:** 37 °C
- **Reaction time:** 0 to 10 min.
- **Washing station:** 6 stages

Optical System

- **Light source:** Precision UV quartz halogen lamp
- **Photometric range:** -0.1 to 3 A
- **Measuring wavelength:** 340, 380, 405, 450, 490, 505, 550, 590, 620, 650, 700, 750 nm
- **Photometry:** single or double-wavelength simultaneous reading

Analytical Modes

- Full random access or batch mode operation with STAT sample priority function
- Multiple methodology options- End point, Kinetic, Coagulation, Calculated, Turbidimetry, enzymes and Drugs of Abuse.
- Choice of calibration options- Linear, Multilinear, Sigmoid, Logit-log (4 & 5 point) & spline
- Automatic sample dilution and reflex testing

Quality Control

- Levy-Jennings, Twin plots & Westgard rules

Data Management

- Bidirectional LIS interface, RS-232C, ASTM E-1381

ISE

- **Module:** MEDICA ISE module
- **Electrodes:** Li+, Na+, K+, Cl-
- **Sample types:** Serum and Urine

Working Conditions

- **Power Requirements:** 110/230 VAC, 50/60 Hz, 550 VA
- **Working Temperature:** 18 – 30 °C
- **Humidity:** 35-80 %

Dimensions

- Size (Width x Depth x Height) 91 cm x 68 cm x 65 cm 36.4 in x 27.2 in x 26 in
- **Weight:** 110 kg; 242 lbs

PC Requirements

- Windows™ 8 computer, 4 Gbytes RAM, 500 Gbytes HDD, DVD-ROM drive, min. 1024x768 resolution SVGA, 15" or bigger monitor, keyboard, mouse, USB ports for link with the analyzer, 1 RS-232 port or 1 USB/RS-232 converter for link with the LIS, USB port for printer



*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.



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