

SEMI-AUTOMATIC CLINICAL CHEMISTRY ANALYZER Vita Lab 300



Semi-Automatic Clinical Chemistry Analyzer

Model: VITA LAB 300

Product Advantages

Semi-automatic clinical chemistry analyser.
Facility to accommodate multiple standards for a single parameter.
Freely programmable for all commercially available chemistries.
Temperature-controlled cuvette compartment.
Operating voltage: 220 V, 50 Hz.
High-capacity data storage with seamless LIS connectivity for efficient laboratory information management.
Advanced analytical capabilities with flexible testing procedures and comprehensive calibration options.
Integrated thermal printer with compatibility for an external printer when required.
7-inch high-resolution TFT touchscreen display with an 800 × 480-pixel resolution for intuitive operation.
Minimum sample volume: 400–800 µL
Advanced optical detection technology utilizing both colorimetric and turbidimetric measurement methods.
Identification and display of upper and lower reference limits.
Multiple communication interfaces enabling convenient connectivity and future system expansion.
High-performance tungsten-halogen light source with extended service life and automatic energy-saving sleep mode.

Key Features :

Precision
Reliability
Intelligence
Innovation

Technical Specifications

Test Parameters: Comprehensive routine clinical chemistry testing.
Language Support: English, Spanish, French and additional language options.
Analytical Methods: End-point, two-point end, kinetic, fixed-time, turbidimetric and clotting assays.
Sample Measurement: Compatible with both flow-cell and cuvette-based testing.
User-selectable wavelengths with individual filters covering a range Optical System: Multi-wavelength optical system with standard wavelengths of 340, 405, 450, 510, 546, 578, 600 and 630 nm, with optional additional wavelengths.
Light Source: Long-life tungsten-halogen lamp with automatic sleep and energy-saving function.
Temperature Control: Multiple temperature settings including 25°C, 30°C, 37°C and room temperature, with dedicated 37°C incubation.
Flow Cell: 32 µL flow-cell capacity with a 10 mm optical path length.
Measurement Resolution: 0.0001 Abs.
Photometric Range: 0.0000–3.3000 Abs.
Display: 7-inch TFT LCD capacitive touchscreen with 800 × 480-pixel resolution.
Printing: Integrated thermal printer using 30 mm paper, with external printer connectivity.
Processing System: ARM Cortex-A7 processor operating at 528 MHz, with 256 MB DDR3 memory and 4 GB eMMC storage.
Data Storage: 8 GB SD card, supporting storage of more than 300 test programs and up to 2,000,000 test results.
Connectivity: Multiple USB ports, Ethernet connectivity and RS232 communication interface.
Operating Conditions: Ambient temperature of 15°C–35°C with relative humidity of 35%–85%.
Power Supply: Universal AC input of 100–240 V, 50/60 Hz.
Dimensions (L × W × H): Approximately 400 × 300 × 200 mm.

Optional Parameter:

Coagulation tests (TT, PT, APTT)

PT – Prothrombin Time: Measures how long blood takes to clot, mainly assessing the extrinsic and common coagulation pathways.
APTT – Activated Partial Thromboplastin Time: Evaluates the intrinsic and common coagulation pathways and is commonly used to monitor heparin therapy.
TT – Thrombin Time: Measures the time required for fibrinogen to be converted into fibrin after thrombin is added.

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