



labmax[®] 450i

State-of-the-art technology and excellent operating performance are together in this compact, easy-to-operate analyzer. High productivity, performs up to 450 tests per hour, with low consumption of water and reagents, ensuring accuracy and precision.



Efficiency and productivity. It performs 270 photometric tests per hour and productivity can reach up to 450 tests associated with the ISE module (optional). There are 36 positions for reagents in a refrigerated tray, equipped with a barcode reader and liquid level control. The sample tray has 30 sample positions and another 15 for calibrators, controls and rush samples. Accommodates primary (collection) tubes or specific cuvettes.



Safety and economy. Requires only 140 μ L as a minimum reaction volume, allowing savings and higher reagent yield. Independent probes for sample pipetting, R1 and R2 minimize carryover and cross-contamination. Reaction cuvettes equipped with an efficient homogenization system by means of air injection, without physical contact with the reaction mixture. The unique probe for pipetting samples, calibrators and controls has a clot detection system, preventing inaccurate pipetting.



Quality, accessibility and integration. Agility in preparing the routine by registering the work list in a single screen. Real-time monitoring of analytical runs through specific graphics and screens. Quality control performed using multiple Westgard rules. Software in Windows environment for easy operation and integration.

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Model specifications

Rated speed	<ul style="list-style-type: none"> • 270 photometric tests/hour • 450 tests when combined with ISE module
Reagents	<ul style="list-style-type: none"> • Barcode reader • 36 positions • Refrigerated • Aspiration volume: R1: 140-300 µL and R2: 20 – 260 µL • Digital liquid level detector
Sample	<ul style="list-style-type: none"> • Barcode reader • 30 sample positions (virtual trays for calibrators, controls and blank) • Aspiration volume: 2 to 25µL (range 0.1 µL) • Digital liquid level detector • Automatic sample dilution • Onboard hemolysis for HbA1c testing
Reaction	<ul style="list-style-type: none"> • Buckets produced with special plastic material (avoids cross-reactions, especially with latex reagents) • Reaction volume: 140 to 400 µL • Total reaction time: 10 minutes • Reading canned cycle • Real-time monitoring
Water consumption	Maximum 3.8 liters/hour
Photometric system	<ul style="list-style-type: none"> • Photometer with diffraction grating with 13 different wavelengths (340, 380, 405, 450, 480, 505, 546, 570, 600, 660, 700, 750, 800) • Biochromatic reading • Tungsten halogen lamp
Washing system	<ul style="list-style-type: none"> • Automatic washing of reaction cuvettes • Uses acidic and alkaline solutions • Internal and external probe washing
Homogenization system	Air injection
Quality control	Westgard multiple rules and Levey-Jennings graph
ISE	<ul style="list-style-type: none"> • Optional module (sodium, potassium and chlorine) • Speed 180 tests/hour
Interface system	Bidirectional Ethernet output
Software	Windows environment
Dimensions (H x W x D)	55,5 x 80 x 67 cm
Weight	95 kg