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YSI 2300 STAT PLUS™

Proven Technology for Glucose and Lactate



YSI glucose and lactate analyzers have been recognized standards for the measurement of blood glucose and/or lactate for more than 25 years. The YSI 2300 is known for its exceptional speed, performance, and ease of use. It is a laboratory glucose and lactate analyzer designed for flexibility.

Measure glucose and lactate simultaneously in whole blood or plasma. Alternatively configure the analyzer to measure only glucose or only lactate. Purchase only the reagents you need.

Fast, accurate results in whole blood, plasma, serum, or cerebrospinal fluid

In addition to **speed** (one-minute results), **automatic calibration**, and **small sample size** (25 µL), the YSI 2300 STAT PLUS provides:

- **Simple, safe operation:** Menu-driven software guides users through each step. Diagnostics provide performance analysis and troubleshooting. Samples are aspirated from a variety of tube sizes; no needles required.
- **Whole-blood capability:** No need to spin samples. And for lactate samples, lysing agent may be used in the electrode chamber for total blood lactate measurements.
- **Low operating cost:** Immobilized enzyme sensors last 2-3 weeks, minimizing the need for costly reagents and supplies.
- **Batch runs:** Optional 24-position turntable provides batch operation capability for plasma or serum. Each batch and sample is assigned an identification number with date and time.
- **Interference rejection:** Unaffected by many of the physical and chemical interferences that plague other methods.
- **Broad measurement range:** Virtually eliminates the need for sample dilution, measuring glucose to 900 mg/dL (50 mmol/L) and lactate to 30 mmol/L.

The Standard for Clinical Diagnostics

- STAT lab or central lab
- Diabetes evaluation
- Diabetes/endocrinology research
- Handheld monitor development
- Human performance evaluation
- Exercise/sports physiology
- Cardiac/pulmonary rehabilitation
- Neonatology/pediatrics
- General metabolic research
- Veterinary medicine and research
- Pharmaceutical quality assurance

www.YSIlifesciences.com

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YSI Immobilized Enzyme Biosensor Technology

The key to fast, accurate measurement

An enzyme specific for the substrate of interest—glucose oxidase or L-lactate oxidase—is immobilized between two membrane layers, polycarbonate and cellulose acetate. The substrate is oxidized as it enters the enzyme layer, producing hydrogen peroxide, which passes through cellulose acetate to a platinum electrode, where the hydrogen peroxide is oxidized. The resulting current is proportional to the concentration of the substrate.

YSI membranes contain three layers. The first layer, porous polycarbonate, limits the diffusion of the substrate into the second (enzyme) layer preventing the reaction from becoming enzyme-limited. The third layer, cellulose acetate, permits only small molecules (such as hydrogen peroxide) to reach the electrode, eliminating many electrochemically-active compounds that could interfere with the measurement.

Immobilized Enzyme Reaction

$$\text{D-glucose} + O_2 \xrightarrow{\text{glucose oxidase}} \text{D-glucono-}\delta\text{-lactone} + H_2O_2$$

D-glucose is oxidized, producing hydrogen peroxide and glucono-lactone.

Anode Reaction

$$H_2O_2 \xrightarrow{\text{platinum anode}} 2H^+ + O_2 + 2e^-$$

Hydrogen peroxide (H_2O_2) is oxidized at the platinum anode, producing electrons. The electron flow is proportional to the H_2O_2 concentration and to the concentration of the substrate.

Instrument Specifications

Sample size:	25 µL (aspirated volume)
Response time (from test tube holder)	
Normal mode:	Displayed and printed result in 65 seconds. Sample to sample interval is 100 seconds.
Screen mode:	Displayed and printed result in 45 seconds. Sample to sample interval is 70 seconds.
Measurement range	
Normal mode:	Glucose: to 900 mg/dL (9000 mg/L, 50.0 mmol/L)
	Lactate: to 30.0 mmol/L (267 mg/dL, 2670 mg/L)
Screen mode:	Glucose: to 500 mg/dL (5000 mg/L, 27.8 mmol/L)
	Lactate: to 15.0 mmol/L (134 mg/dL, 1335 mg/L)
Precision	
Glucose:	Whichever is larger, ±2% of reading or 2.5 mg/dL, (25 mg/L or 0.2 mmol/L)
Lactate:	Whichever is larger, ±2% of reading or 0.1 mmol/L, (1 mg/dL or 10 mg/L)
Calibration point	
Glucose:	180 mg/dL (1800 mg/L, 10.0 mmol/L)
Lactate:	5.00 mmol/L (45 mg/dL, 445 mg/L)
Membrane working life (typical)	
Glucose:	21 days
Lactate:	14 days
Operating temperature:	15 to 35° C
Humidity:	10 to 90% noncondensing
Power:	110-120 VAC or 220-240 VAC, 50-60 Hz, 50 Watts nominal
Size:	25.4 x 35.6 x 35.6 cm, 11.4 kg
	10 x 14 x 14 inches, 25 lbs
Regulatory Compliance:	CE, FDA Registered Class II (862.1345), CSA
CE Device Category:	IVD

Note: YSI makes no performance claims for sampling whole blood using the YSI 2710 Turntable.
STAT PLUS is a trademark of YSI Incorporated.

Call your local representative or YSI technical support!

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