StatStrip Lactate Specifications

StatStrip® Lactate Strips
Test Methodology: Electrochemistry
Sample Types & Operating Modes:
Whole Blood
Lactate Measurement Range: 0.3-20.0 mmol/L (2.7-180 mg/dL)

Test Time: 13 Secs
Patient & QC Tests: 400 tests total (FIFO)

Test Strip & QC Stability:
2 vials per package

StatStrip® Connectivity Meter

Test Time: 13 Secs
Patient & QC Tests: 400 tests total (FIFO)

StatStrip® Xpress® Meter

Test Time: 6 Secs
Patient & QC Tests: 200 tests

Other Nova Biomedical® Stat and Point-of-Care Products

Novo StatStrip® Lactate Point-of-Care Measuring System

- Handheld Point of Care Blood Measuring Systems
- Other Nova Biomedical® Stat and Point-of-Care Products

Handheld Point of Care Blood Measuring Systems

- StatStrip® Lactate Specifications
- StatStrip® Connectivity Meter
- StatStrip® Xpress® Meter

Other Nova Biomedical® Stat and Point-of-Care Products

- StatProfile® pH/oX Ultra Analysers
- StatProfile® pH/oX Blood Gas / Critical Care Analysers
- Nova Electrolyte/Chemistry Analysers

Handheld Point of Care Blood Measuring Systems

- Novo StatStrip® Lactate Point-of-Care Measuring System
- Easy to Use
- Small, 0.6 Microliter Whole Blood Sample
- Results in 13 Seconds
- Lab Equivalent Accuracy
Another Technology First

A True Point-of-Care Lactate Test System

Lactate and Sepsis

Severe sepsis is a major healthcare problem with over 350,000 annual deaths in the United States. Early recognition and treatment of severe sepsis and septic shock can help reduce mortality. Statistical data from the National Cooperative sepsis Study, published in 2004, showed that effective treatment of sepsis within the first six hours of presentation can be associated with a 40% decrease in mortality.

The Surviving Sepsis Campaign guidelines recommend that in patients with severe sepsis or septic shock, lactate should be measured within the first six hours as a marker of tissue oxygenation and as a predictor of mortality.

StatStrip Lactate

StatStrip Lactate is a handheld, true point-of-care system that brings lactate testing directly to the patient’s bedside. Lactate is currently measured on blood gas analysers, which creates numerous problems for bedside testing. Blood gas analysers require anaerobic, arterial samples, large sample volumes (100-200 microliters) and have long analysis times (up to 2.5 minutes). In addition, blood gas analysers are complex to operate, are not portable and are expensive to purchase and operate. StatStrip Lactate testing is as easy as bedside glucose testing performed by medical and nursing staff. StatStrip single-use, precalibrated biosensor provides the fastest turnaround time possible (23 seconds), on the smallest whole blood sample (0.5 microliters), with high laboratory accuracy.

Accuracy Comparable to Hospital Laboratory Testing

StatStrip Lactate combines classic electrochemical methods with modern nanotechnology to provide a technically advanced, patented, microfluidic, disposable lactate biosensor suitable for use in point-of-care lactate measurement.

The channel layer holds the electrolyte solution for electrochemical measurement and the measurement well contains a disposable biosensor. The measurement is performed by introducing a drop of blood or other fluid sample into the channel and the microfluidic system transports the sample to the measurement well.

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Accuracy Compared to Hospital Laboratory Testing

StatStrip Lactate combines classic electrochemical methods with modern microfluidics and modern advanced Multi-Wave™ measuring system. StatStrip Lactate biosensors measure and eliminate common interferences such as acetaminophen, ascorbic acid and uric acid. StatStrip Multi-Wave technology provides excellent performance compared to reference methods.

Fastest Lactate Turnaround Time, 13 Seconds

Lactate and Sepsis

Severe sepsis is a major healthcare problem with over 350,000 US patients hospitalised each year. The 7-day mortality rate in septic patients is 47%, and an ultimate prognosis in sepsis, septic shock and other critical conditions. The Initial Suspected Sepsis Score (ISSS) is one of the most important risk factors for patient survival. StatStrip Lactate provides 13-second TAT that is critical for initiating early goal directed therapy for septic patients.

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Lactate and Sepsis

According to NACB, recognizing an increase in lactate is seen as possible coupled with initial resuscitation is associated with improved outcomes in any department providing care for high risk patients.

NACB Strongly Endorses Rapid Lactate in the ED, OR, and ICU

In the OR:  patients with congential heart surgery, liver transplant, cancer surgery, high-risk surgery (abdominal, vascular), burns, anemia of occult illness, shock trauma, asthma, cardiac arrest.


StatStrip Lactate provides a lab-equivalent accuracy from small, 0.6 microliter blood samples in only 13 seconds.

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StatStrip Lactate provides a lab-equivalent accuracy from small, 0.6 microliter blood samples in only 13 seconds.
Another Technology First

New Nova Biomedical technology leads to the development of advanced biosensors for whole blood analysis. During the past 30 years, Nova has introduced more than 20 biosensors, including the industry’s first biosensor to directly measure whole blood lactic acid in 1985. These earlier biosensors are used routinely in thousands of hospital laboratories and critical care settings around the world in our StatProfi  le brand.

StatStrip is the world technology leader in the development of advanced biosensors for whole blood analysis. During the past 30 years, Nova has introduced more than 20 biosensors, including the industry’s first biosensor to directly measure whole blood lactic acid in 1985. These earlier biosensors are used routinely in thousands of hospital laboratories and critical care settings around the world in our StatProfi  le brand.

New Technology, StatStrip Lactate Multi-Well Measuring System

Now Nova has incorporated technology into a miniautudized, precalibrated disposable biosensor for whole blood lactate measurement in the bedside. These biosensors combine multiple measurements with: classic electromechanical and nanochemistry, StatStrip technology, and technology specific measures and controls for interfacing such as: lensless, autoclavable, disposable, and accurate. All can cause inaccurate results in other whole blood systems.

StatStrip Lactate provides high-equivalent accuracy from small, 0.6 microliter blood samples in only 13 seconds.

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Accuracy Comparable to Hospital Laboratory Testing

StatStrip Lactate combines classic electromechanical methods with modern nanotechnology and is ideally suited for Multi-Well® measuring system. StatStrip Lactate biosensors measure and calibrate simultaneously: whole blood lactate, urine sodium, potassium, aspartate aminotransferase, aspartic acid and uric acid. StatStrip Multi-Well technology provides excellent performance compared to reference methods.

Lactate and Sepsis

Sepsis and Lactate: Severe sepsis is the leading cause of death in non-coronary ICUs in Europe and America. Based on evidence that rapid turnaround time (TAT) brings lactate testing directly to the patient’s bedside. Lactate must be available with rapid turnaround time to effectively treat septic patients. StatStrip Lactate provides a 13 second TAT that is critical for initiating early goal directed therapy for septic patients.

StatStrip Lactate’s small 0.6 microliter sample size, fast 13 second results, and easy operation make routine screening and serial testing of lactate practical in any department that treats critically ill patients.

NACB Strongly Endorses Rapid Lactate in the ED, OR, and ICU.

According to NACB, recognizing an increase in lactate as soon as possible coupled with immediate resuscitation is associated with improved outcomes in any department providing care for high risk patients.

• In the ED: patients with sepsis, shock, acute abdomen, AMI, septic shock, trauma, cardiac arrests, cardiac arrest.
• In the ICU: patients with sepsis, septic shock, AMI, heart failure, impaired surgical (abdominal, vascular, burns, trauma), preterm, preterm, pulmonary embolism, transfusions.
• In the OR: patients with congestive heart failure, trauma, transfusion, shock, abdominal sepsis, anemia, transfusions.

Fastest Lactate Turnaround Time, 13 Seconds

According to the National Academy of Clinical Biochemistry (NACB), lactate earns an “A” recommendation for critical care testing because it has the shortest time to rapid turnaround time (TAT) for lactate improves patient outcomes. StatStrip Lactate results are available in 13 seconds from the time needed by blood gas analysers.

Smallest Whole Blood Sample, 0.6 microliters

StatStrip Lactate’s extremely small sample volume enables effective treatment for sepsis. Blood gas analysers used for lactate analysis require over 100 times more blood than StatStrip Lactate’s small 0.6 microliter sample size, fast 13 second results, and easy operation make routine screening and serial testing of lactate practical in any department that treats critically ill patients.

Low Cost Lactate Testing

StatStrip Lactate is a very low cost test device that makes lactate testing easy, practical and affordable in any size ED, ICU, or Medical Unit. In contrast to patients a single lactate test on a blood gas analyser requires four times the cost of performing the full test menu of the analyser.

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**StatStrip Lactate Specifications**

- **Multipack:** 25 Strips per vial
- **Expiry Date:** 3 months open-vial stability
- **From Date of Manufacture:** 24 months
- **Test Strip & QC Stability:** 2 vials per package
- **Test Reports:** 30 strips per vial
- **Temperature:** 59˚F-104˚F (15˚C- 40˚C)
- **Altitude:** Up to 15,000 feet
- **Whole Blood:** Arterial, Venous
- **Sample Types & Operating Modes:**
  - **Test Methodology:** Electrochemistry
  - **Test Reported:** Lactate Hematocrit Corrected
  - **Data Output:** RJ-45 Ethernet Port
  - **Connectivity:** TCP/IP Ethernet 10 Mbit
- **Battery Information:**
  - **Type:** 3V Lithium Button Battery
  - **Patient & QC Tests:** 400 tests total (FIFO)
  - **Data Storage:**
  - **StatStrip:**
    - **Handheld Whole Blood Measuring System**
      - **For Care of Blood Lactate Monitoring Systems**
      - **Lab Equivalent Accuracy**
      - **Results in 13 Seconds**

**Nova StatStrip Lactate Point-of-Care Measuring System**

**StatStrip Xpress**

- **Meter:** Glucose/Ketone Meter
- **Connectivity:** Single connectivity solution
- **Battery Information:**
  - **Capacity:** 200 tests
  - **Usage:** 1,000 tests
- **Sample:** Whole Blood
- **Operating Ranges:**
  - **Temperature:** 39˚F-104˚F (4˚C- 40˚C)
  - **Humidity:** 95% to 99% Relative Humidity
- **Storage:** 50˚F-104˚F (10˚C-40˚C)

Other Nova Biomedical® Stat and Point-of-Care Products

- **Critical Care Analysers**
  - **pHOx Ultra Analysers**
    - **Test Menu:**
      - Blood gases, SO2%, Hemoglobin, Hematocrit, electrolytes
      - **Test Menus:**
        - **Ca++, Mg++ Li++, TCa, CL, TCO2, Hep, pH, BUN, Crea
        - **Alternative Menus:**
          - **GLU, BUN, Crea, Hct, and pH**
  - **pHOX Blood Gas/ Critical Care Analysers**
    - **Test Menus:**
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        - **Ca++, Mg++ Li++, TCa, CL, TCO2, Hep, pH, BUN, Crea
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- **Electrolyte/Chemistry Analysers**
  - **GLU, BUN, Crea, Hct, and pH**
  - **Available:** 13 models with standard test menus and custom configured models available

- **Stat and Point-of-Care Products**
  - **Handheld Whole Blood Measuring System**
    - **Easy to Use**
    - **Small, 0.6 Microliter Whole Blood Sample**
    - **Results in 13 Seconds**
    - **Lab Equivalent Accuracy**

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**StatStrip® Lactate Strips**

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- **Packaging:** 2 vials per package

**StatStrip® Connectivity Meter**

- **Strips:** 25 Strips per vial
- **Packaging:** 2 vials per package

**StatStrip® Xpress® Meter**

- **Strips:** 25 Strips per vial
- **Packaging:** 2 vials per package