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EAGLENOS Lactate Meter Test Kit

EAGLENOS Lactate Meter Test Kit User Manual

Model: Lactate Meter Test Kit
For Athletic Performance Monitoring

1. Introduction

The EAGLENOS Lactate Meter Test Kit is a precise instrument designed for monitoring blood lactate levels, crucial for optimizing athletic performance and training. This kit provides a convenient and accurate method for athletes and coaches to assess physiological responses to exercise.

The kit includes a lactate meter and 50 test strips, providing everything necessary for immediate testing. Please note that batteries are not included and must be purchased separately.

2. What's in the Box

Upon opening your EAGLENOS Lactate Meter Test Kit, please verify that all components are present:

- 1 x Lactate Meter
- 50 x Lactate Test Strips

Image: The EAGLENOS Lactate Meter, accompanied by 50 test strips and their packaging, illustrating the complete kit contents.

3. Setup

Before first use, ensure the meter is properly set up.

3.1. Battery Installation

The Lactate Meter requires batteries (not included). Open the battery compartment on the back of the device and insert the required batteries, ensuring correct polarity. Close the compartment securely.

3.2. Initial Power On and Settings

Press the power button to turn on the meter. The device may prompt you to set the date and time. Follow the on-screen instructions to adjust these settings for accurate record-keeping.

4. Operating Instructions

Follow these steps for accurate lactate measurement:

1. **Prepare the Meter:** Ensure the meter is clean and powered on.
2. **Insert Test Strip:** Carefully insert a new test strip into the strip port of the meter. The meter will automatically recognize the strip.
3. **Obtain Blood Sample:** Use a lancing device (not included) to obtain a small blood sample, typically from a fingertip.
4. **Apply Blood Sample:** Touch the tip of the test strip to the blood sample. The strip will draw the blood into the reaction area. Ensure sufficient blood is applied.
5. **Read Results:** The meter will display the lactate level within approximately 10 seconds. The measurement range is 0.5~28 mmol/L. If the value is outside this range, the screen will display "LO" (too low) or "HI" (too high).
6. **Eject Strip:** After reading, eject the used test strip using the auto strip ejection feature to prevent cross-contamination.

Image: A visual representation highlighting the ease of operation and quick results provided by the lactate meter, showing a man holding the device.

Image: The lactate meter displayed against a background of a runner, illustrating its application in athletic performance monitoring, with key features like quick results (10s) and microsampling (0.8 µL) highlighted.

5. Key Technologies and Features

The EAGLENOS Lactate Meter incorporates advanced technologies for reliable and user-friendly operation:

5.1. Gold Electrode Technology

The test strips utilize gold electrode technology, providing excellent sensitivity, conductivity, and stability for accurate measurements. This technology includes:

- **FAD-GDH Technology:** Designed to avoid blood oxygen interference.
- **Enzymatic Biosensor:** Features high selectivity for precise lactate detection.
- **Enzyme Chemistry Design:** Prevents ascorbic acid interference.
- **Sophisticated Temperature Compensation:** Ensures accuracy and consistency across varying operating temperatures.
- **Auto Moisture Detection:** Identifies and alerts for damaged strips.

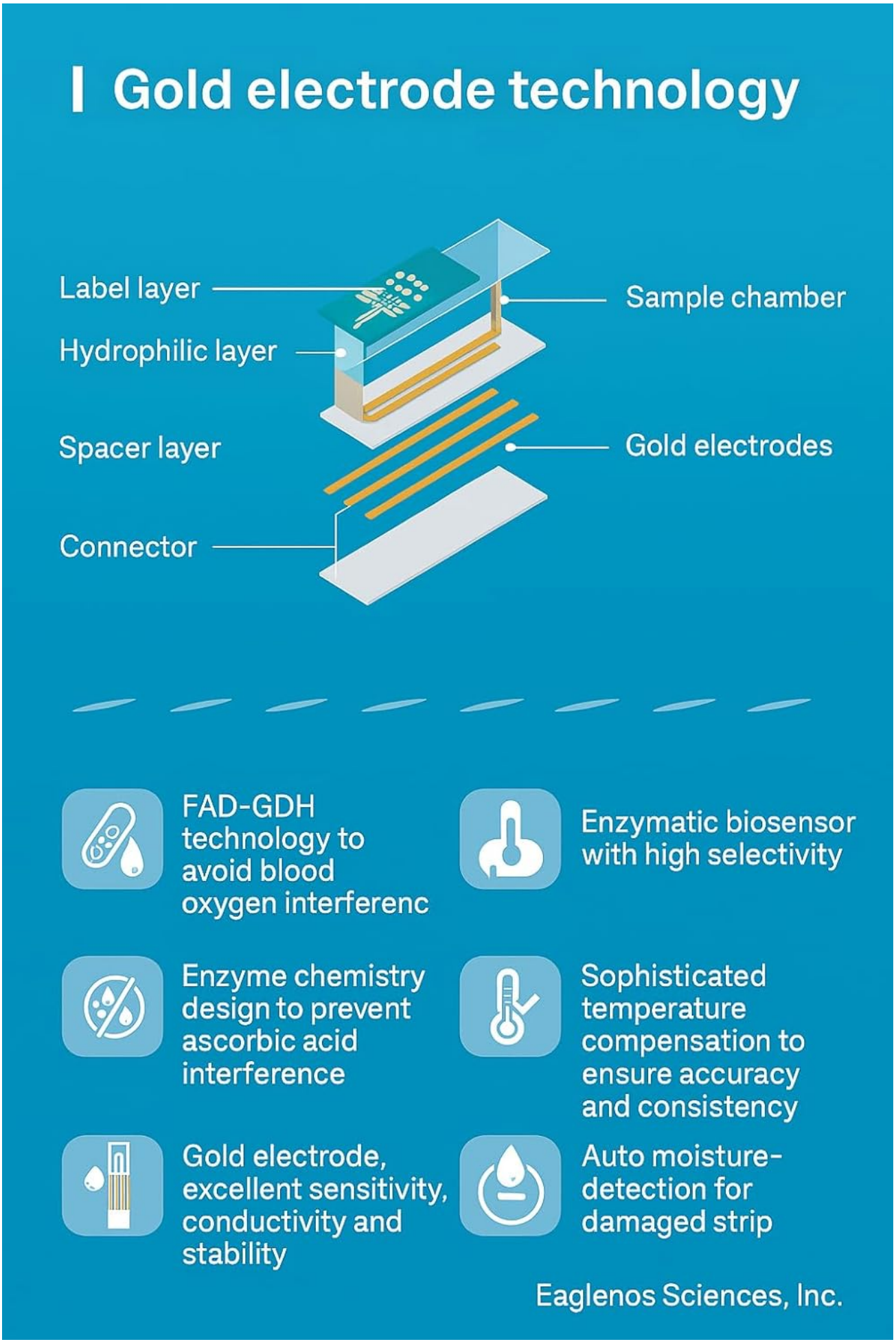

Image: A detailed diagram explaining the components and benefits of the gold electrode technology used in the test strips, including layers and key features.

5.2. User-Friendly Design

The meter is designed for ease of use and data management:

- **Smart Identification:** Automatic identification of test strips without manual adjustment.
- **Mass Memory Storage:** Securely stores up to 800 sets of test results.
- **Bluetooth Transmission:** Allows for easy access to data without manual input, enabling seamless transfer to compatible devices.

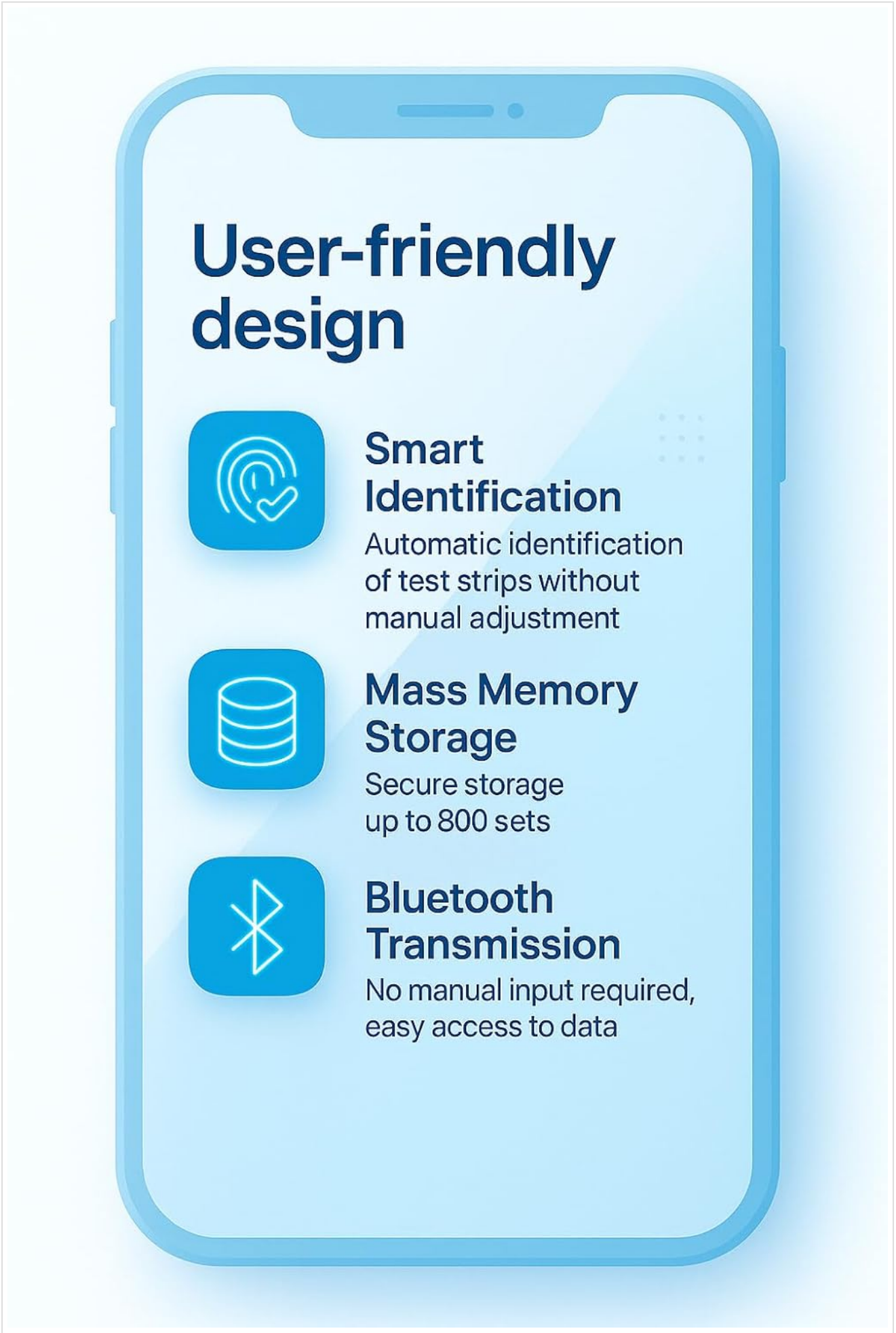

Image: An illustration of a smartphone screen displaying the user-friendly features of the lactate meter, including Smart Identification, Mass Memory Storage, and Bluetooth Transmission.

6. Why Monitor Lactate?

Lactate testing is a valuable tool for athletes to monitor their body's response to exercise and optimize performance. Key benefits include:

- **Determine Lactate Threshold:** Identify the point at which lactate accumulates rapidly, which helps in tailoring training intensity.
- **Optimize Endurance Training:** Stay below the lactate threshold for longer durations to build stamina and improve endurance.
- **Improve Recovery Strategies:** Assess how quickly the body clears lactate post-exercise, aiding in effective recovery planning.
- **Prevent Overtraining:** Identify excessive fatigue or inefficient training loads, helping to avoid overtraining syndrome.

Image: Two athletes running, accompanied by text explaining the reasons and benefits for athletes to test lactate levels, such as optimizing training and preventing overtraining.

7. Maintenance

To ensure the longevity and accuracy of your EAGLENOS Lactate Meter, follow these maintenance guidelines:

- **Cleaning:** Wipe the meter's exterior with a soft, damp cloth. Do not immerse the meter in water or use harsh cleaning agents.
- **Storage:** Store the meter and test strips in a cool, dry place, away from direct sunlight and extreme temperatures. Keep test strips in their original sealed container until ready for use.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears on the display.

8. Troubleshooting

If you encounter issues with your lactate meter, refer to the following common problems and solutions:

- **Display shows "LO":** This indicates that the measured lactate value is below the meter's detection range (0.5 mmol/L). Ensure sufficient blood sample was applied and the strip is not expired.
- **Display shows "HI":** This indicates that the measured lactate value is above the meter's detection range (28 mmol/L). Ensure sufficient blood sample was applied and the strip is not expired.
- **Meter does not turn on:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate readings:** Ensure test strips are not expired and have been stored correctly. Verify proper blood sample application. Avoid testing in extreme temperatures outside the operating range.

If problems persist, please contact customer support for assistance.

9. Specifications

> Parameters

Subject	Specification
Technology	Electrochemical biosensor technology
Measurement range	Blood lactate: 0.5 –28.0 mmol/L
Sample type	Fresh fingertip capillary blood; venous whie blood
Sample volume	0.8 µL
Test time	10 s
Hematocrit range	30% –60%
Memory	800 test results
Operating condition	15°C - 35°C RH: 10%–85% (non–endensing) Atmospheric pressure: 70.0–106.6.6 k.Pa
Device warranty time	5 years
Auto strip ejection	✓

Image: A table detailing the technical parameters and specifications of the lactate meter, including measurement range, sample type, and operating conditions.

Subject	**Specification**
Technology	Electrochemical biosensor technology
Measurement Range	Blood lactate: 0.5 – 28.0 mmol/L
Sample Type	Fresh fingertip capillary blood; venous whole blood
Sample Volume	0.8 µL
Test Time	10 s
Hematocrit Range	30% – 60%
Memory	800 test results

Subject	Specification
Operating Condition	15°C – 35°C RH: 10% – 85% (non-condensing) Atmospheric pressure: 70.0 – 106.6 k.Pa
Device Warranty Time	5 years
Auto Strip Ejection	Yes

10. Warranty Information

The EAGLENOS Lactate Meter comes with a**5-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized repairs, or failure to follow the instructions in this manual.

11. Customer Support

For any questions, concerns, or technical assistance, please do not hesitate to contact EAGLENOS customer support. We are committed to providing support within 24 hours.
Contact Method: Please contact us via email through Amazon's messaging system. Our team will respond to your inquiry within 24 hours.

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Related Documents - Lactate Meter Test Kit

	Water Test Strips: Instructions and Usage Guide This guide provides detailed instructions for using various water test strips, including Bacteria, Ammonia Nitrogen, 6-in-1, Sodium Chloride (NaCl), Sulfate, 5-in-1 (Lead, Iron, Copper, Mercury, Zinc), Nitrite (NO2), Manganese, 2-in-1 (Nitrate, Nitrite), and Fluoride (F-) test strips for accurate water quality assessment.
	GIMACARE Multi-Functional Monitoring System Owner's Manual Comprehensive owner's manual for the GIMACARE Multi-Functional Monitoring System by GIMA, detailing setup, operation, testing procedures for blood glucose, beta-ketone, cholesterol, triglycerides, uric acid, hemoglobin, and lactate, maintenance, and troubleshooting.
	AUVON Blood Glucose Monitoring System Quick Guide A concise guide to using the AUVON Blood Glucose Monitoring System, including step-by-step instructions and essential safety precautions for accurate blood glucose testing.

	[Bionime GM100 Blood Glucose Monitoring System: Instructions for Use] Comprehensive instructions for using the Bionime GM100 Blood Glucose Monitoring System, including setup, testing procedures, quality control, troubleshooting, and specifications. Learn how to accurately monitor your blood glucose levels.
	[UnitedHealthcare Diabetic Meter and Test Strip Coverage Policy] Details UnitedHealthcare's prior authorization and non-formulary criteria for diabetic meters and test strips, including coverage requirements for insulin pump users and individuals with specific medical needs.
	[GlucoRx Vivid Blood Glucose Monitoring System - Operation Manual] Comprehensive operation manual for the GlucoRx Vivid Blood Glucose Monitoring System, detailing setup, usage, testing procedures, troubleshooting, and maintenance.