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LinkSun G-425-1

LinkSun G-425-1 Blood Glucose Monitor Kit User Manual

Model: G-425-1 | Brand: LinkSun

1. INTRODUCTION

The LinkSun G-425-1 Blood Glucose Monitor Kit is designed for accurate and reliable self-testing of blood glucose levels at home. This kit provides a convenient and efficient way to monitor blood sugar, featuring a no-coding design, quick test time, and a large display for easy readability. Regular monitoring is crucial for managing diabetes effectively.

2. WHAT'S IN THE BOX

Your LinkSun G-425-1 Blood Glucose Monitor Kit includes the following components:

- 1 x G-425-1 Blood Glucose Monitor
- 1 x Lancing Device
- 100 x Test Strips (50pcs x 2 vials)
- 100 x Lancets (50pcs x 2 vials)
- 1 x Control Solution
- User Guide
- Carrying Case



Figure 2.1: Complete LinkSun G-425-1 Blood Glucose Monitor Kit.

3. SETUP

3.1. Installing Batteries

The G-425-1 monitor uses Alkaline batteries. Open the battery compartment cover on the back of the device and insert the batteries, ensuring correct polarity. Close the cover securely.

3.2. Preparing the Lancing Device

1. Unscrew the lancing device cap.
2. Insert a new lancet firmly into the lancet holder.
3. Twist off the protective cap from the lancet.
4. Replace the lancing device cap.
5. Adjust the penetration depth by rotating the top of the cap. The device offers 5 levels of lancing strengths; choose a setting appropriate for your skin type (1-2 for soft skin, 3-5 for thicker skin).
6. Pull back the cocking barrel until it clicks, indicating it is ready to use.

Q1

Why do results vary between brands?

A1

- Each brand uses unique algorithms and strip technologies
- All ISO 15197 certified devices meet clinical accuracy ($\pm 15\%$)

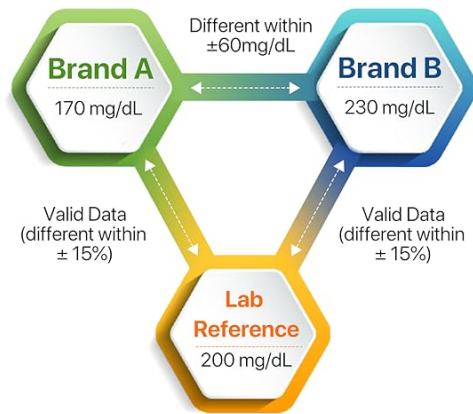


Figure 3.1: Lancing device with adjustable depth settings for comfortable blood sample collection.

4. OPERATING INSTRUCTIONS (BLOOD GLUCOSE TESTING)

The LinkSun G-425-1 Blood Glucose Monitor features a no-coding design for simplified testing. Follow these steps for an accurate blood glucose measurement:

1. **Prepare:** Wash your hands thoroughly with soap and warm water. Dry them completely.
2. **Insert Test Strip:** Remove a test strip from its vial and immediately close the vial cap tightly. Insert the test strip into the meter with the contact bars end first. The meter will automatically turn on and display a blood drop symbol, indicating it is ready for a blood sample.
3. **Obtain Blood Sample:** Place the prepared lancing device firmly against the side of your fingertip. Press the release button to prick your finger. A small drop of blood ($0.7 \mu\text{L}$ microblood collection) will form.
4. **Apply Blood Sample:** Gently touch the absorbent hole at the tip of the test strip to the blood drop. The blood will be automatically drawn into the strip. Do not smear the blood.
5. **Read Result:** The meter will begin a 5-second countdown. After the countdown, your blood glucose result will be displayed on the large screen.
6. **Eject Strip & Lancet:** Remove the used test strip from the meter and dispose of it properly. Carefully remove the used lancet from the lancing device using the one-button lancet rejection feature and dispose of it in a puncture-proof container.

Q2

Why do home and hospital results differ?

A2

- Standard range: $\pm 15\%$ difference is normal per ISO
- Home: Finger capillary whole blood
- Hospital: Venous plasma

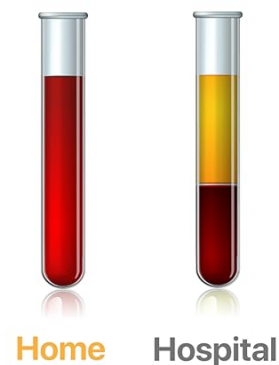


Figure 4.1: Step-by-step guide for blood glucose testing.

4.1. Meter Operation and Memory

The meter automatically turns on when a test strip is inserted and turns off after a period of inactivity or when the strip is removed. It stores up to 500 readings with date and time. To review past results, press the 'M' button to turn on the meter, then press 'M' again to cycle through the most recent test results. Long press 'M' to turn off the meter.

Blood Glucose Indicator Card									
Normal means the normal blood glucose level of a healthy person. This card is for reference only. Ask your doctor for exactly what your blood sugar levels indicate.									
Low		Normal		Borderline		High		Dangerous	
mmol/L	mg/dL	mmol/L	mg/dL	mmol/L	mg/dL	mmol/L	mg/dL	mmol/L	mg/dL
1.1	- 20	4.4	- 72	7.1	- 128	10.1	- 182	13.9	- 250
1.5	- 27	4.4	- 80	7.5	- 135	10.5	- 189	15.0	- 270
2.0	- 36	4.7	- 85	7.8	- 140	11.0	- 193	16.0	- 288
2.2	- 40	5.0	- 90	8.0	- 145	11.1	- 196	16.6	- 300
2.5	- 45	5.5	- 100	8.3	- 150	11.5	- 200	17.0	- 306
2.8	- 50	6.0	- 108	8.9	- 160	12.0	- 216	18.0	- 325
3.0	- 54	6.1	- 110	9.0	- 162	12.5	- 225	19.0	- 342
3.3	- 60	6.7	- 120	9.4	- 170	13.0	- 234	20.0	- 360
3.9	- 70	7.0	- 126	10.0	- 180	13.8	- 248	20.8	- 375
								22.2	- 400
								23.0	- 414
								24.0	- 432
								25.0	- 450
								26.4	- 475
								27.0	- 486
								27.7	- 500
								30.0	- 540
								33.3	- 600

Figure 4.2: Auto-Standby Mode for convenient use.

5. MAINTENANCE AND CARE

5.1. Cleaning the Monitor

Wipe the exterior of the meter and lancing device with a soft, damp cloth. Do not immerse the device in water or use harsh cleaning agents. Ensure no liquid enters the test strip port.

5.2. Storage

Store the blood glucose monitor, test strips, and lancets in a cool, dry place, away from direct sunlight and extreme temperatures. Keep test strip vials tightly closed after each use to prevent moisture exposure, which can affect accuracy. Do not use expired test strips or control solution.

5.3. Control Solution Testing

A control solution is included to verify the accuracy of your meter and test strips. Perform a control solution test when:

- You open a new vial of test strips.
- You suspect the meter or test strips are not working correctly.
- Your test results are inconsistent with your symptoms or how you feel.
- You have dropped the meter.

To perform a control solution test:

1. Insert a test strip into the meter when it is off.
2. Press the 'M' button to enter CTL Mode.
3. Apply one drop of control solution to the test strip.
4. Compare the result displayed on the meter with the range printed on the test strip vial label. The result should fall within the specified range.



Figure 5.1: Performing a control solution test.

6. TROUBLESHOOTING

6.1. Inconsistent Readings or Error Messages

If you experience inconsistent readings or error messages (e.g., 'LO' reading for control solution), consider the following:

- **Check Test Strips:** Ensure test strips are not expired and the vial cap was tightly closed after previous use. Moisture can affect strip integrity.
- **Perform Control Solution Test:** As described in Section 5.3, use the control solution to verify the meter and strips are functioning correctly. If the control solution result is out of range, replace the test strips.
- **Sufficient Blood Sample:** Ensure you apply enough blood to the test strip. The meter requires a 0.7 μL sample.
- **Environmental Factors:** Extreme temperatures or humidity can affect results. Test in a moderate environment.

6.2. Understanding Result Variations

It is normal for blood glucose results to vary slightly between different brands of meters or between home and laboratory tests. This is due to different technologies and sample types.



Figure 6.1: Why results may vary between different brands.



Figure 6.2: Differences between home and hospital blood glucose results.

If issues persist, contact LinkSun customer support.

7. SPECIFICATIONS

Feature	Specification
Model Name	G-425-1
Product Dimensions	7.3"L x 1.8"W x 7.5"H
Item Weight	0.4 Pounds
Test Time	5 seconds
Blood Sample Volume	0.7 μ L
Memory Capacity	500 readings
Coding	No Coding Required
Battery Type	Alkaline
Manufacturer	bioland

8. IMPORTANT SAFETY INFORMATION

Indications: This device is intended for use by people with diabetes mellitus for self-testing blood glucose.

- This device is for **in vitro diagnostic use** only. Do not use it for the diagnosis of diabetes or for screening purposes.
- Always consult your healthcare professional for interpretation of your blood glucose results and for any medical advice.
- Keep the device and all components out of reach of children.
- Dispose of used lancets and test strips according to local regulations for biohazardous waste.
- Do not use the device if it appears damaged or is not functioning properly.

Q3

What's control solution for?

A3

- Checks if meter & strips work properly by simulating blood test
- Steps:
 - Insert strip when off
 - Press "M" for CTL Mode
 - Apply 1 drop to test strip
 - Match Level 2 on bottle
 - Out of range **✗** Expired / Within range **✓** Normal



Figure 8.1: Blood Glucose Indicator Card (for reference only; consult your doctor).

9. WARRANTY AND SUPPORT

LinkSun is committed to providing high-quality products. For any questions, technical assistance, or warranty information regarding your G-425-1 Blood Glucose Monitor Kit, please contact LinkSun customer support through the retailer where you purchased the product or visit the official LinkSun website for contact details.