

ONE TOUCH® **SureStep**®

Diabetes Blood Glucose Monitoring System
Système de surveillance de la glycémie



Owner's Booklet
Manuel du propriétaire

NOW WITH
150-Test Memory

GARDE MAINTENANT
150 tests en mémoire

LIFESCAN

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ONE TOUCH[®]
SureStep[®]
COMPLETE BLOOD GLUCOSE MONITORING SYSTEM

Owner's Booklet

The SureStep® System is intended for use outside the body (in vitro diagnostic use). It should be used only for testing purposes and only with fresh whole blood samples. It should not be used for the diagnosis of diabetes.

Welcome to LifeScan

Congratulations! You've chosen a product made by LifeScan, a leading company in providing products to help you manage your diabetes. SureStep® blood glucose monitoring products are widely available without a prescription.

Blood glucose monitoring plays an important role in controlling your diabetes. A long-term study showed that keeping blood glucose levels close to normal can reduce the risk of complications by up to 60%. The results you get with the SureStep® System can help you and your healthcare

professional monitor and adjust your treatment plan to gain better control of your diabetes.

Everything you need to know about using the SureStep System is included in this booklet. If you have any questions, please feel free to call the toll-free numbers to speak with our Customer Services Department.

Remember to complete and mail the Warranty Registration Card.

Important phone numbers:

LifeScan Customer Care Line:

CANADA 1 800 663-5521

Healthcare Professional _____

Diabetes Educator _____

Meter Serial Number _____

U.S.A. 1 800 227-8862

Pharmacist _____

Other _____





CAUTION: Before using any product to test your blood glucose (blood sugar), read all instructions and practice the test. Do all quality control checks as directed and consult with a diabetes healthcare professional. These recommendations apply to all blood glucose monitoring systems and are supported by the Diabetes Educator Section of the Canadian Diabetes Association.

IMPORTANT: If you have followed the tips to ensure accuracy and your blood glucose results are still out of range, call your healthcare professional.

The SureStep® System contains many small parts: test strip holder, battery door, batteries, lancets, control solution vial, test strips, test strip bottle cap, etc. Keep the system out of the reach of small children because these parts may be dangerous if swallowed.

If using a 10% bleach solution to disinfect the meter, be sure to completely remove any bleach from the meter and test strip holder with a cloth dampened with water. Bleach will react with the test strips and cause inaccurate results.

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LifeScan Customer Care Line:

CANADA 1.800.663.5521

U.S.A. 1.800.227.8862

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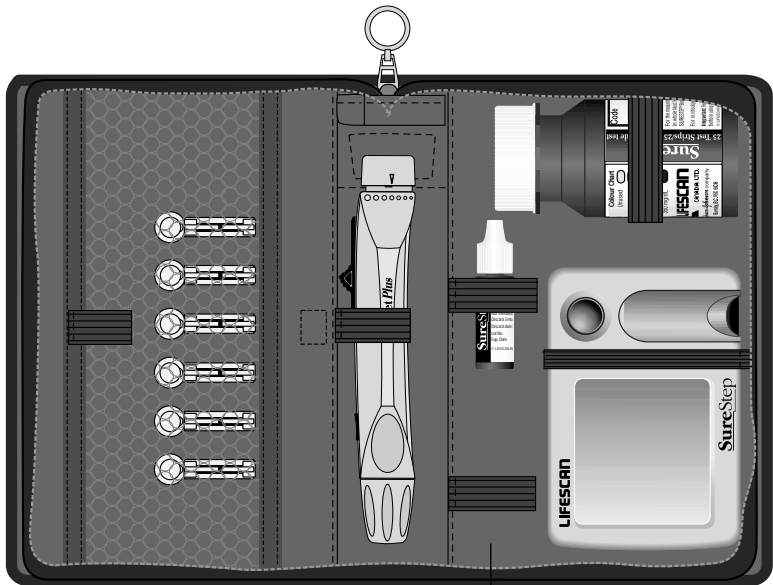
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LEARNING THE SYSTEM

The SureStep® Diabetes Blood Glucose Monitoring System is the next advance in the self-monitoring of blood glucose. The SureStep® System is for people with diabetes who need to check the level of sugar (glucose) in their blood. A drop of blood is taken from the finger and placed on a SureStep® Test Strip, which is then inserted into the SureStep® Blood Glucose Meter. The meter measures the blood glucose level and displays the result on average in 30 seconds. **The system is calibrated to give a plasma value, the measurement**

used by most clinical laboratories. Easy-to-understand symbols guide you through the test procedure and help you if any problems arise.

SureStep® Brand Test Strips are the only test strips that have been specifically designed, developed, and tested for use with the SureStep® Meter to ensure consistent quality and accuracy. For reliable results and to maintain the manufacturer's complete service, support, and warranty, use only SureStep Brand Test Strips made by LifeScan.



Extra Space for Diabetes Supplies

SureStep® Blood Glucose Meter

DATA PORT

Allows you to transfer the information stored in the meter's memory to a computer to view, analyze, and print.

DISPLAY

Shows your test results and symbols that guide you through the test.

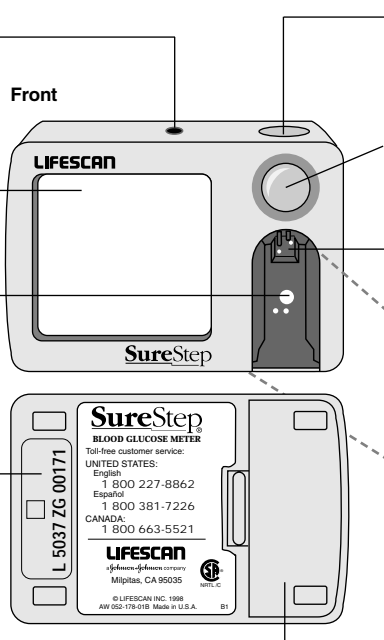
LENS AREA

Contains the meter optics that read the glucose level. Test strip holder covers the lens area.

SERIAL NUMBER (Example)

BATTERY COMPARTMENT

Holds two AAA alkaline batteries.



C BUTTON (Green)

Codes the meter, changes the meter settings, marks control solution test results, and scrolls through the memory.

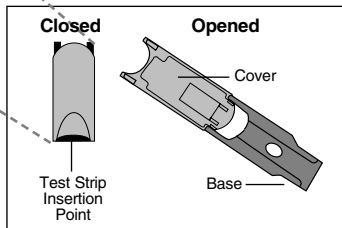
POWER BUTTON (Blue)

Turns the meter on and off, accesses the memory, and navigates through the set-up mode.

CONTACT POINTS

Sense the position and orientation of the SureStep® Test Strip.

TEST STRIP HOLDER



The cover protects the lens area and the base holds the SureStep Test Strip.

SureStep® Test Strips

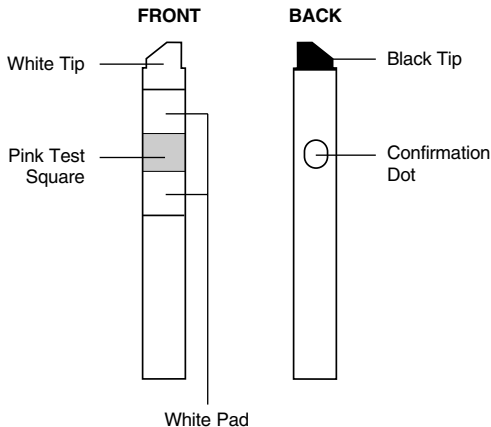
When blood is applied to the pink test square, it is absorbed and a chemical reaction takes place. A blue colour forms in the confirmation

dot on the back of the test strip and is read by the meter to determine the blood glucose level; the darker the colour, the higher the blood glucose level.

White Tip is inserted into the meter. The side where you apply blood must be **face up** when you insert the test strip.

Pink Test Square is where you apply a drop of blood.

White Pad absorbs the excess blood that may extend beyond the pink test square. **Do not** apply blood directly onto the white pad.



Black Tip helps the meter detect that the strip has been inserted properly.

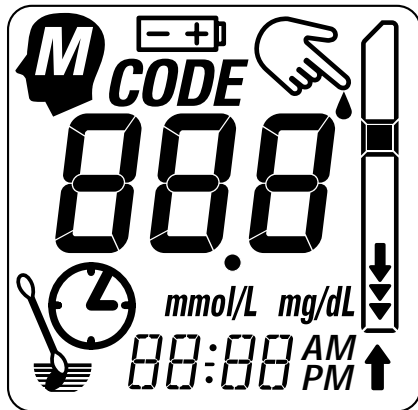
Confirmation Dot on the back of the test strip is where you check to confirm proper blood application. When it turns completely blue, enough blood has been applied for an accurate test.

IMPORTANT TEST STRIP INFORMATION

- Contact with air, moisture, and light can cause false results. Keep test strips sealed in the original moisture-resistant, light-protected package and store in a cool, dry place not above 30°C (86°F). Do not refrigerate, place in direct heat or sunlight, or leave bottle open.
- DO NOT use SureStep® Test strips beyond the expiration date.
- If using test strips from a bottle, write the discard date on the bottle label. Discard unused test strips four months after first opening the bottle.
- DO NOT use SureStep Test Strips that are bent, torn, cut, or changed in any way.
- Before testing, the confirmation dot should be off-white. DO NOT use test strip if confirmation dot is darker than the colour of an unused test strip shown on the Colour Chart included with the test strip package.
- Use each test strip immediately after removing it from the package.
- Replace the test strip bottle cap immediately after removing a test strip and **close the cap tightly**.
- Never transfer test strips to a new bottle or any other container.
- DO NOT use bleach, or products containing bleach, with the test strips.
- For reliable results, use only SureStep Test Strips made by LifeScan.

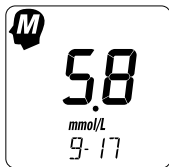
Display Symbols

The SureStep® Blood Glucose Meter uses symbols to guide you through a test and to help you determine if something is wrong with your test strip or meter. To check that all display symbols are working, press and hold down the blue power button. All symbols should appear. This display check will also appear briefly each time you turn on the meter. Call the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 227-8862) if any segments are missing.



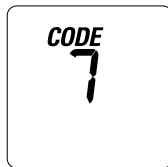
Display Check

Meter Memory Result. Your SureStep® Meter stores up to 150 blood glucose or control solution test results with their times and dates in its memory. Every time you turn the meter on, it will automatically recall and display your last (most recent) result with date.



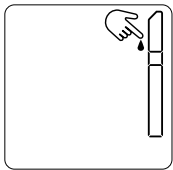
(Example)

Code Number. The number on the display must match the code number on your SureStep® Test Strip package. It must be checked every time you use a new package of test strips and changed if the code number is different.

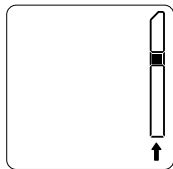


(Example)

Apply Blood Sample to Pink Test Square.



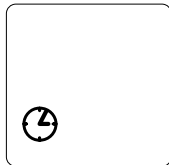
Push the Test Strip, Pink Side Up, Firmly into the Test Strip Holder Until It Stops.



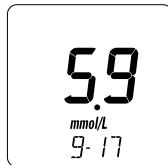
If you fail to **completely** insert the test strip, the test may start. However, you may receive an inaccurate low result.

Meter Is Reading Your Result.

The result appears, on average, in 30 seconds. The clock may flash longer at cooler temperatures or shorter at warmer temperatures.



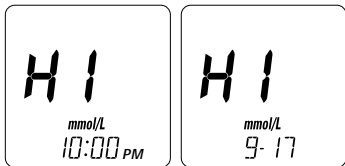
Test Result. The meter displays results from 0 to 27.8 mmol/L (0–500 mg/dL) with time and date.



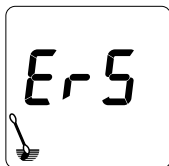
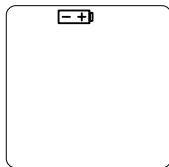
(Example)

HI mmol/L.

In virtually all cases above 27.8 mmol/L (500 mg/dL), the meter reads “HI.”



When proper procedures are followed, a reading of “HI” means very high blood glucose (severe hyperglycemia). In extremely rare circumstances, the meter will read “Er I” instead of “HI” above 27.8 mmol/L (500 mg/dL). Compare the colour of the test strip confirmation dot with the Colour Chart on the test strip package (see pages 34 and 35).

Clean Meter and Test Strip Holder.**Replace the Two AAA Alkaline Batteries.**

CODING THE METER

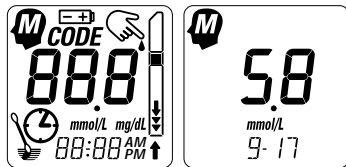
Code numbers are used to calibrate the SureStep® Test Strip with the SureStep® Meter for accurate results. You must code the meter before using it for the first time. You must check the code every time you change to another package of test strips. Check that the code number on the display matches the code number on the test strip package.

Caution: *If the code numbers do not match, you may get inaccurate results.*

Three Easy Steps to Coding

Step 1: Turn On the Meter.

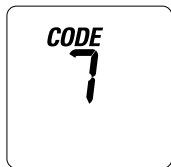
Press the blue power button. After the display check, the result from either your last blood glucose test with date or your last control solution test will appear.



(Example)

If you are turning on the meter for the first time, - - - will appear on the display.

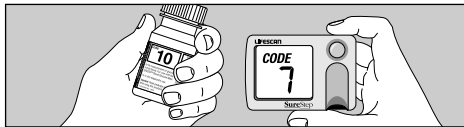
Next, the meter code will appear for a few seconds.



(Example)

Step 2: Check the Code Numbers.

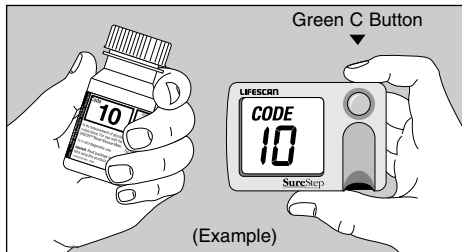
The code number on the test strip package will range from 1 to 21. If the number on the display matches the code number on the SureStep® Test Strip package, begin testing. If the two code numbers do not match, follow Step 3 to code the meter.



(Example)

Step 3: Code the Meter.

After the **CODE** symbol appears, press the green C button. Continue pressing until the code number on the display matches the code number on the test strip package.



The code is now set for the package of test strips you are using. The meter will retain this code until you change it.

CHECKING THE SYSTEM

The SureStep® System does not require a check strip. The meter performs an automatic check every time you turn it on.

SureStep® Glucose Control Solution

Control solution is used instead of blood to tell you that the SureStep® Blood Glucose Meter and SureStep® Test Strips are working together properly. The control solution contains a known amount of glucose that reacts with a SureStep Test Strip.



SureStep Glucose
Control Solution

Control Solution Test

Do a control solution test:

- Before testing with the SureStep Blood Glucose Meter for the first time.
- Every time you open a new package of test strips.
- Whenever you suspect that the meter or test strips are not working properly.
- When your results do not reflect how you feel.
- If you drop the meter.

IMPORTANT CONTROL SOLUTION TEST INFORMATION

- Use only SureStep® Glucose Control Solution.
- Check the expiration date. **Do not** use if expired.
- Record the discard date on the control solution vial. **Discard the vial three months after first opening it.**
- The control range printed on the test strip bottle is for SureStep Glucose Control Solution only. **It is NOT a recommended range for your blood glucose level.**
- Do not store the glucose control solution at room temperatures above 30°C (86°F). Do not refrigerate or freeze.
- If a control solution test falls outside of the control range, do not use the meter to test your blood until you get a control solution test result within the range. Call the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 227-8862) if you need assistance.

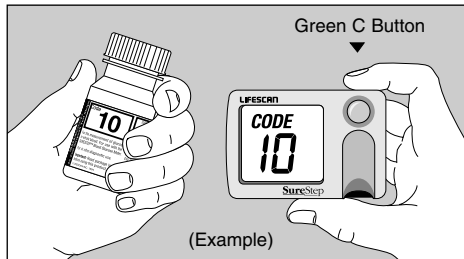
WARNINGS

- Control solution is **NOT TO BE USED** as a cleaning solution.
- **DO NOT** swallow or inject control solution or put it in your eyes.
- Control solution contains a dye that stains clothing.

Follow the test procedure, using SureStep® Glucose Control Solution instead of blood.

Before Testing, Check the Code.

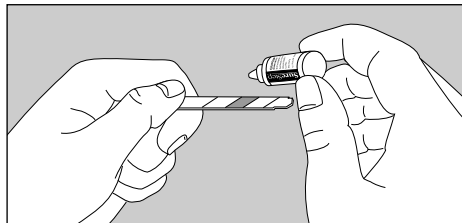
After turning the meter on, the last result appears, followed by the **CODE** symbol and number. If the code on the meter does not match the code on the test strip package, press the green C button until the codes match.



Step 1: Apply a Small Drop of Control Solution.

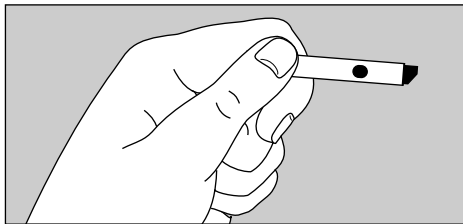
After shaking the control solution vial, apply one drop of control solution to the pink test square.

Note: Applying too much control solution may cause out-of-range results and make the meter dirty.



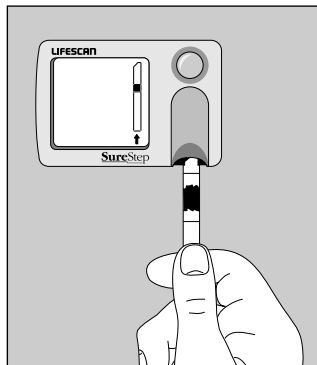
Step 2: Check Confirmation Dot.

Check to see that the confirmation dot on the back of the test strip has turned completely blue to ensure you have applied enough control solution.

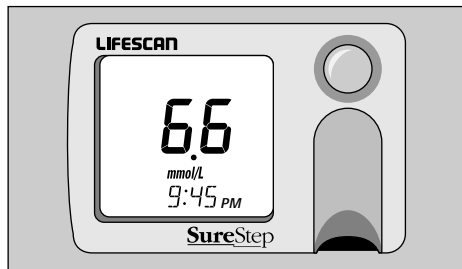


Step 3: Insert the Test Strip and Read Result.

Within two minutes after applying control solution, insert the test strip firmly into the test strip holder, **pink side up**, until it comes to a complete stop.



The control solution result appears, on average, in 30 seconds.

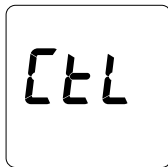


(Example)

Note: Do not use the Colour Chart to verify control solution tests.

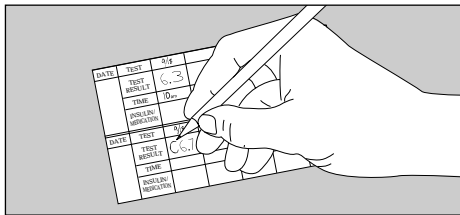
Step 4: Mark the Test Result as a Control Solution Test.

You must mark the test result as a control solution test result so that it will appear in the memory as a control solution test result and not be included in your 14- and 30-day blood glucose test averages. Simply press the green C button while the test result is on the display. First [CL] will replace the test result on the meter display. Then the result will again appear on the display with [CL].

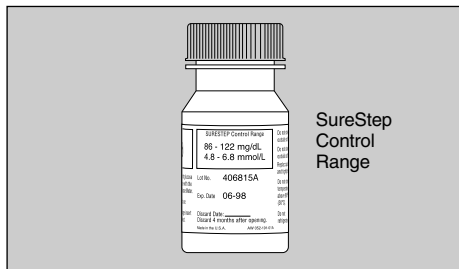


If you accidentally mark a blood glucose test result as a control solution test result, just press the green C button to delete the \square marker.

Record control solution tests in your logbook by placing a C next to the result to indicate a control solution test.



Compare the control solution test result with the control range printed on the SureStep® Test Strip package.



(Example)

When you can do three control solution tests in a row that are within the control range, you are ready to test your blood.

Control Solution Range

If test results fall outside the expected range, repeat the test. Results that fall outside the expected range may indicate the system is not working properly. Some possible causes are:

- Procedural error
- Expired or contaminated control solution
- Test strip code and meter code do not match
- Dirty meter or test strip holder
- Test strip deterioration
- Meter malfunction
- Control solution that is outside of the temperature range 15–35°C (59–95°F)

If you are unable to resolve the problem, call the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 227-8862).

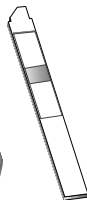
TESTING YOUR BLOOD

Detailed Test Procedure

Choose a clean, dry work surface. Make sure you have all the items needed to test.



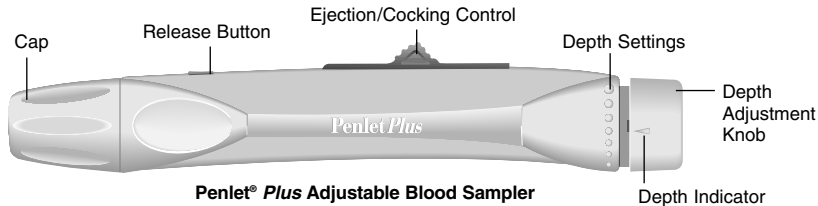
Meter



SureStep®
Test Strip



Sterile
Lancet



Penlet® Plus Adjustable Blood Sampler

Getting a Drop of Blood.

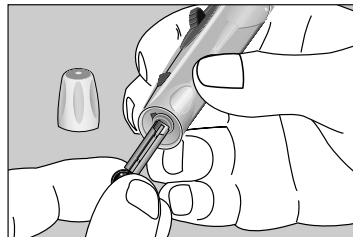
IMPORTANT: Getting an adequate drop of blood is one of the most important steps in getting an accurate result.

CAUTION: To reduce the chance of infection:

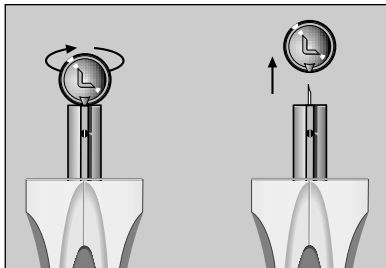
- **Never share a lancet with another person.**
- Always use a new, sterile LifeScan Lancet. Lancets are for single use only.
- Do not use lancet if protective disk has been removed or damaged.
- The Penlet® *Plus* Sampler should be used by only one person.
- Avoid getting hand lotion, oils, dirt, or debris in or on the lancets and the Penlet *Plus* Sampler.
- For assistance, call the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 227-8862).

Step 1: Insert a Lancet into the Penlet® *Plus* Adjustable Blood Sampler.

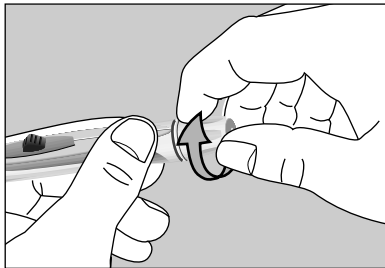
Remove the Penlet® *Plus* Cap by twisting it counterclockwise. Insert a lancet into the lancet holder. Push down firmly until the lancet is fully seated in the holder. Do not twist the lancet. To avoid contamination and to prevent the cap from rolling away, set the cap down on a flat surface with its small hole pointing up.



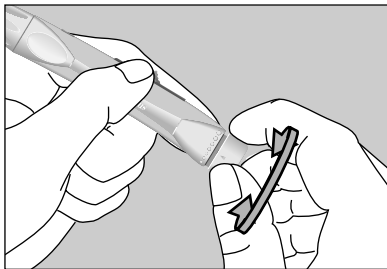
While the lancet is in the Penlet® *Plus* Sampler, twist off the protective disk. Make two full turns to ensure that the lancet separates from the protective disk.



Replace the Penlet® *Plus* Cap. Turn the cap clockwise until it is snug but not overly tight.

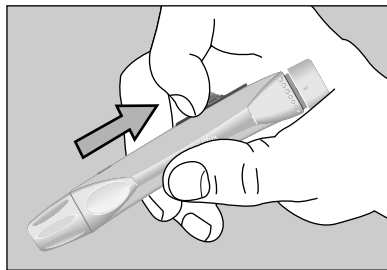


Adjust the puncture depth setting if necessary. Twist the knob counter-clockwise toward the smaller bumps for a shallower puncture. Twist the knob clockwise toward the larger bumps for a deeper puncture.



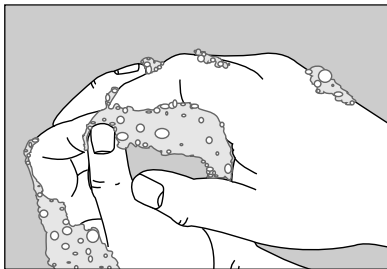
Step 2: Cock the Penlet® Plus Sampler.

Slide the ejection/cocking control backward until it clicks. If it does not click, the Penlet *Plus* Sampler may have been cocked when the lancet was inserted.



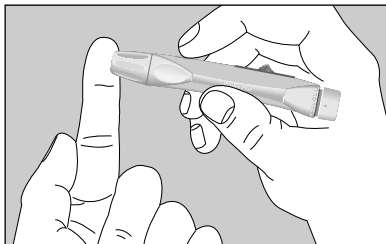
Step 3: Wash Your Hands.

Use warm, soapy water. Rinse and dry hands thoroughly. To increase blood flow to your fingertips, massage the hand from the wrist to the fingertip two or three times without touching the puncture site.

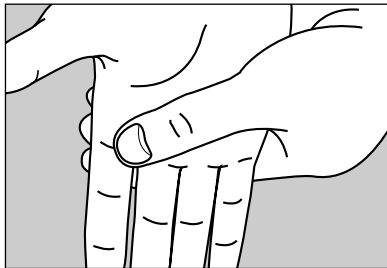


Step 4: Lance Your Finger.

Choose a spot on the side of a different finger each time you test. Repeated punctures in the same spot may cause soreness and calluses. Hold the Penlet® *Plus* Sampler **firmly** against the **side** of your finger. Press the release button. (Greater pressure of the device against the finger will also cause a deeper puncture.)

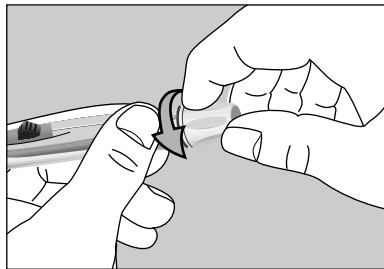


Gently massage your finger to obtain the required blood volume. Proceed with your blood glucose test.

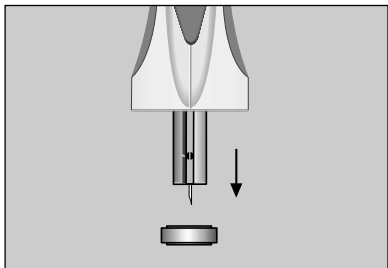


Step 5: Remove the Lancet.

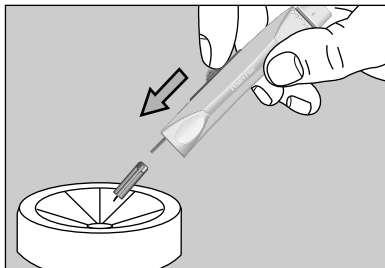
Remove the cap. Twist it counter-clockwise.



Optional: To replace the protective disk on the lancet, place the disk on a hard surface and push the exposed tip into the protective disk.



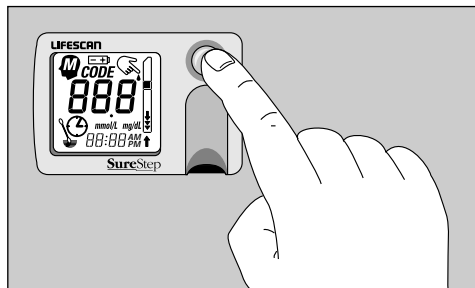
Always use caution when removing the lancet. Point the lancet down and away from you. Push forward on the ejection/cocking control and eject the lancet directly into a container for sharp objects.



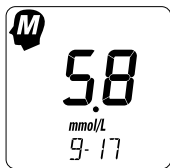
Return the ejection/cocking control to the middle position. Replace the cap.

How to Test Your Blood.

Press the blue power button.

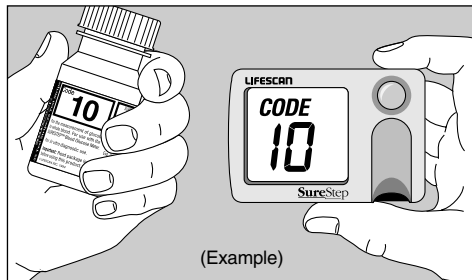


Your last test result will appear.

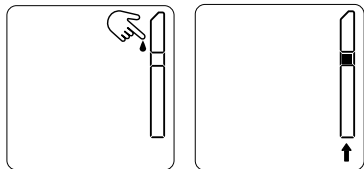


(Example)

Next, the code number appears. It must match the code number on the SureStep® Test Strip package. If it does not match, change the meter code number following the instructions on pages 10 and 11.



These symbols will alternate on the display:



Apply blood to test strip.

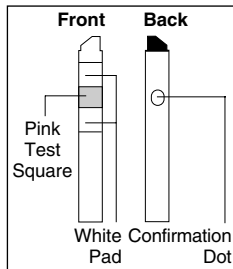
Insert test strip into meter.

The meter is ready for a test. You have two minutes to insert the test strip before the meter automatically turns off.

Step 1: Apply Blood to the Test Strip.

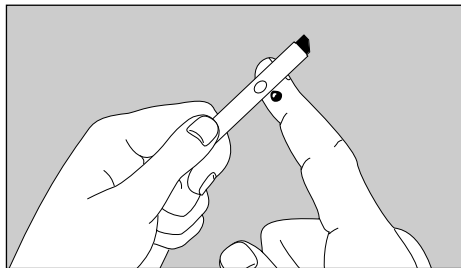
Apply a drop of blood to the center of the pink test square.

Note: Do not add more blood to the first drop. Adding more blood may give false results.



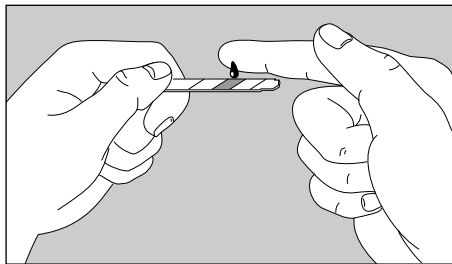
You can apply blood to the pink test square in one of two ways.

1) Turn the test strip over and dab the pink test square to the finger. You can touch the test strip. The pink test square will quickly absorb the blood and the confirmation dot will begin changing colour.

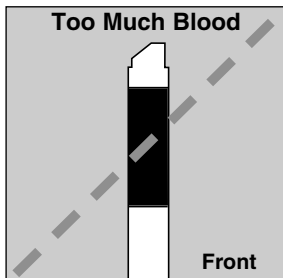


OR

2) Hold the test strip under your finger and touch the drop of blood to the pink test square.

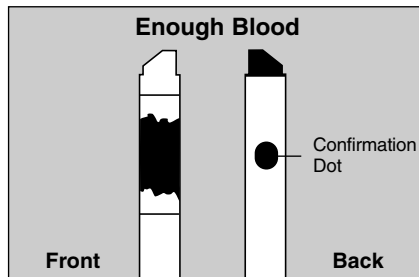


You have applied too much blood to the test strip if the entire white pad is soaked. You must begin the test with a **new** test strip to avoid false results from too much blood.

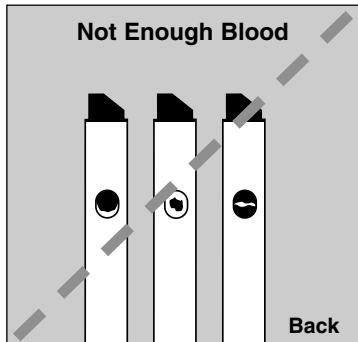


Step 2: Check the Confirmation Dot.

After a few seconds, look at the confirmation dot on the back of the test strip. If it is completely blue, go on with the test.



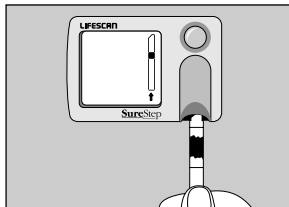
If any white patches or white streaks appear on the confirmation dot, you have not applied enough blood for an accurate test. You must start the test over with a **new** test strip.



Caution: If you do not insert the test strip properly, you may get an inaccurate result.

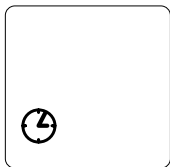
Step 3: Insert the Test Strip and Read Result.

Turn the SureStep® Test Strip to the front side and slide it into the test strip holder, **pink side up**. Push the test strip in firmly until it stops. Insert the test strip within *two minutes* after applying blood to obtain an accurate result.



The flashing clock symbol appears while the meter is reading your result. You will hear a three-tone

beep when the meter displays your result. Results appear, on average, in 30 seconds.



(Example)

The result is displayed first with the time and then with the date (time and date will alternate). See pages 55–58 to learn how to set the time and date.

The meter displays results from 0 to 27.8 mmol/L (0–500 mg/dL). In virtually all cases above 27.8 mmol/L (500 mg/dL), the meter reads “Hi.”

Note: Your meter is designed to give accurate results at temperatures from 10° to 35°C (50–95°F). At the higher end of this temperature range, the test time may be as short as 15 seconds. At the lower end of this temperature range, the test time will be extended.

The SureStep® System is **calibrated to give plasma values**. Because most clinical laboratories measure plasma glucose, the SureStep

System enables you to more directly compare meter results with lab

results. See pages 37 and 38 to learn how to compare meter and lab results.

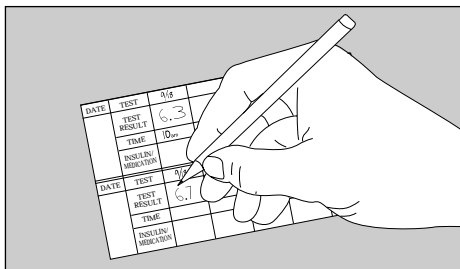
IMPORTANT: When proper procedures are followed, the meter will display “Hi” in virtually all cases when your result is above 27.8 mmol/L (500 mg/dL). This indicates very high blood glucose (severe hyperglycemia).

Low and High Blood Glucose: Test results below 3.3 mmol/L (60 mg/dL)ⁱ mean low blood glucose (hypoglycemia). Test results greater than 13.3 mmol/L (240 mg/dL)ⁱⁱ mean high blood glucose (hyperglycemia). If you get results below 3.3 mmol/L or above 13.3 mmol/L and you do not have symptoms that match your results, repeat the test following the guidelines on pages 40 and 41 to ensure testing accuracy. You may also use the Colour Chart (see pages 34 and 35). If you have symptoms that match your results or if you continue to get results that fall below 3.3 mmol/L or above 13.3 mmol/L, follow the treatment advice of your healthcare professional.

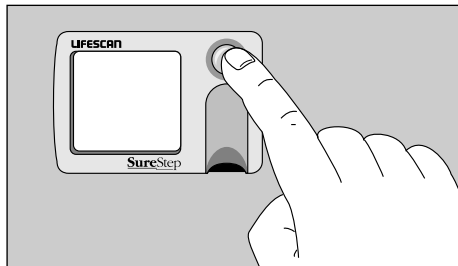
i. Kahn, R., and Weir, G.: *Joslin's Diabetes Mellitus*, 13th ed. Philadelphia: Lea and Febiger (1994), 489.

ii. Krall, L.P., and Beaser, R.S.: *Joslin Diabetes Manual*. Philadelphia: Lea and Febiger (1989), 261–263.

Record your test results in your LifeScan logbook. The logbook allows you to keep a record of your test results, along with information on your meals and medication.



Press the blue power button to turn off the SureStep® Blood Glucose Meter. (To save energy, the meter automatically turns off three minutes after it displays your test result.)



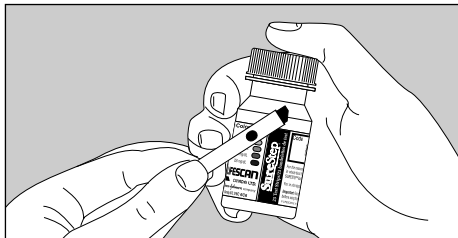
Optional Colour Chart

A Colour Chart is included with each package of SureStep® Test Strips. It is useful as an additional check that your meter and test strips are working properly. **The Colour Chart is NOT a replacement for a SureStep® Meter test.**

The chart shows four shades of blue, each corresponding to a blood glucose level. It also shows an off-white shade for new, unused test strips. Use the Colour Chart in the following two ways.

1. **Before testing.** Compare the **confirmation dot on the back of the new test strip to the shade marked *unused* on the chart.** Do not use the test strip if the confirmation dot is darker than the colour of an unused test strip on the Colour Chart.
2. **After testing.** Directly after reading a meter result, you can **compare the colour of the test strip confirmation dot with the colours on the chart.** The colour of the confirmation dot will either match one of the colours on the chart or fall between two colours. When the colour of the blue dot falls between two

colours, your blood glucose level is between the values printed next to the two colours. **This comparison will give you a rough estimate of your blood glucose level.** The Colour Chart is to be used as an additional check to confirm a meter reading. **It is NOT a replacement for a SureStep® Meter test.**



Note: If your Colour Chart reading and meter result do not agree and do not reflect how you feel, follow the testing tips for accuracy on pages 40 and 41. **Do not use the Colour Chart with control solution tests.**

UNDERSTANDING YOUR RESULTS

Overview

Long-Term Diabetes Findings.

In 1993 the National Institutes of Health concluded an extensive long-term study of people with Type 1 diabetes. This study, called the Diabetes Control and Complications Trial (DCCT), found that by keeping your blood glucose close to the levels of people without diabetes you can reduce the risk of complications involving the eyes, kidneys, and nervous system by approximately 60%.¹

What This Means for You.

Frequent blood glucose testing is the best means you have for keeping track of how well you are doing with the factors that affect your diabetes—medication, diet, exercise, and stress management. Blood glucose test results can also tell you whether your diabetes is changing in ways that might require an adjustment to your treatment plan. Always consult your healthcare professional before making any adjustments.

Frequency of Testing.

How often you need to test your blood glucose will vary according to your age, the type of diabetes you have, the medications you are taking, and your physical and emotional health. Your health-care professional will guide you. After you decide when and how often you should test, it is important that you make testing part of your daily routine.

Comparing Meter and Laboratory Results

The SureStep® System's **plasma calibration** enables you to more directly compare SureStep® Meter

results with your lab results because most laboratories measure plasma glucose; however, your meter blood glucose test result may be different from your laboratory result (by up to 20%)² due to normal sources of variation. Make sure you are following Testing Tips to Ensure Accuracy on pages 40 and 41. To make an accurate comparison between meter and laboratory results, the meter test must be done within 10 to 15 minutes of the laboratory test. If samples are taken more than 15 minutes apart, the two tests could have very different results.

Blood glucose levels can change significantly over short periods, especially if you have recently eaten, exercised, taken medication, or experienced stress.³ In addition, if you have eaten recently, the blood glucose level from a fingerstick can be up to 3.9 mmol/L higher than that of a venous sample (blood drawn from a vein) used for a laboratory test.⁴ Therefore it is best to fast for eight hours before doing the comparison tests. Factors such as a high or low hematocrit (amount of red blood cells in the blood) or severe dehydration (loss of body fluid) may also cause a meter result to be different from a laboratory result. For more detail, see pages 41 and 42.

Expected Test Results (Target Range)

Your test results will vary somewhat from test to test. Blood glucose levels change throughout the day. The types and amounts of food you eat, your activity and stress levels, and how much insulin or other medication you take affect your blood glucose levels. If you are controlling your diabetes well, your test results should fall within a personal target range recommended by your healthcare professional. Once you have established your target range, you will be able to detect when your results are high or low and can take action with advice from your healthcare professional.

	GLUCOSE RANGES FOR PEOPLE WITHOUT DIABETES,⁵ mmol/L	YOUR TARGET RANGES, mmol/L
Before breakfast	3.9–5.8	_____
Before lunch or dinner	3.9–6.1	_____
1 hour after meals	Less than 8.9	_____
2 hours after meals	Less than 6.7	_____
Between 2 and 4 AM	Greater than 3.9	_____

Testing Tips to Ensure Accuracy

If you have a test result that falls outside of your target range and you cannot link it to diet, exercise, medication, or stress, repeat the test. If the result is similar and still outside of your range, try these troubleshooting steps:

Before Testing:

- Wash your hands.
- Use a new, sterile lancet.
- Check the expiration date on the test strip package. If it has passed, discard the unused test strips and open a new package. When using test strips from a bottle, discard any remaining test strips four months after first opening.

- Make sure the confirmation dot on the **unused** test strip is not darker than the colour of an unused test strip shown on the Colour Chart.
- Make sure the code on the meter matches the code on the test strip package.
- Do a test with SureStep® Glucose Control Solution to verify that the test strip and meter are working properly.
- Make sure the meter test strip holder, lens area, and contact points are clean. Follow instructions on pages 47–51.

After Testing:

- Make sure you applied enough blood to the test strip by inspect-

ing the test strip confirmation dot to be certain it turned completely blue.

- Make sure you did not apply too much blood to the test strip. You have applied too much blood if there is no white visible on the white pad.
- Directly after the meter displays a result, compare the colour of the test strip confirmation dot with the Colour Chart on the test strip package (see pages 34 and 35).

IMPORTANT:

If you have followed the tips to ensure accuracy and your blood glucose results are still out of range, call your healthcare professional.

Health Conditions Causing Out-of-Range Results

If you are getting results outside your range of expected blood glucose levels, and you are certain that the SureStep® Meter and SureStep® Test Strips are working together properly, ask yourself the following questions:

“How do I feel?”

“Do I have symptoms of low blood glucose (hypoglycemia): slurred speech, headache, tingling of lips, cool sweating, rapid heartbeat, disorientation, weakness, dizziness, fainting, hunger, nervousness, irritability, or tremors?”

“Do I have symptoms of high blood glucose (hyperglycemia): fatigue, dry mouth and skin, increased thirst or hunger, blurry vision, increased urination, rapid deep breathing, or a fruity smell to the breath?”

“What have I eaten?”

“How much have I exercised?”

“Am I ill (common cold, flu, etc.)?”

“Have I been under stress lately?”

In addition to these factors, there are other abnormal conditions that can affect your results.

1. Extremes in hematocrit (the amount of red blood cells in the blood) can affect test results.

Very high hematocrits (above 60%) and very low hematocrits (below 25%) can cause false results.⁶

2. Severe dehydration and excessive water loss may cause false low results.^{7,8} Severe dehydration, which may lead to many serious medical complications, can be caused by:

- Vomiting and diarrhea
- Prescription drugs (e.g., diuretics)
- Inability to recognize or respond to “thirst” sensations
- Uncontrolled diabetes
- Shock⁹

If you believe you are suffering from severe dehydration, consult a health-care professional immediately.

Recommendations for Better Diabetes Control

- Follow the advice of your health-care professional.
- Follow the exercise and meal plans recommended by your healthcare professional.
- Take insulin or diabetes medication at your scheduled times.
- Keep in touch with your emotional and physical condition. Stress or illness can affect diabetes.
- Watch for symptoms of hypoglycemia (low blood glucose) and hyperglycemia (high blood glucose).
- Review your logbook of test results with your healthcare professional regularly.

References

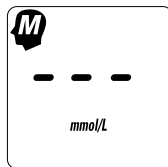
1. American Diabetes Association position statement on the Diabetes Control and Complications Trial (1993).
2. Clarke, W.L., et al.: *Diabetes Care*, Vol. 10, No. 5 (1987), 622–628.
3. Surwit, R.S., and Feinglos, M.N.: *Diabetes Forecast* (1988), April, 49–51.
4. Sacks, D.B.: “Carbohydrates.” Burtis, C.A., and Ashwood, E.R. (ed.), *Tietz Textbook of Clinical Chemistry*. Philadelphia: W.B. Saunders Company (1994), 959.
5. Krall, L.P., and Beaser, R.S.: *Joslin Diabetes Manual*. Philadelphia: Lea and Febiger (1989), 138.
6. LifeScan data on file.
7. Wickham, N.W.R., et al.: *Practical Diabetes*, Vol. 3, No. 2 (1986), 100.
8. Cohen, F.E., et al.: *Diabetes Care*, Vol. 9, No. 3 (1986), 320–322.
9. Atkin, S.H., et al.: “Fingerstick glucose determination in shock.” *Annals of Internal Medicine*, Vol. 114 (1991), 1020–1024.

RECALLING RESULTS FROM METER MEMORY

The SureStep® Blood Glucose Meter is pre-set to display your last test result automatically when you turn on the meter. The meter stores your 150 most recent blood glucose or control solution test results with alternating date and time in its memory. When the memory is full, the oldest result is dropped as the newest is added. It also provides you with 14- and 30-day averages of your blood glucose test results. Results marked as control solution test results will not be included in your averages.

Using the Meter for the First Time

The first time you turn on your meter the following symbol will appear briefly, showing that there are no test results in the memory:

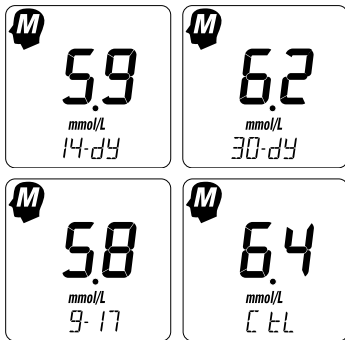
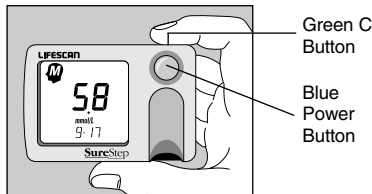


This symbol will also appear after turning on your meter when your previous test ended in an error and the meter did not display a result.

Recalling All Results in Meter Memory

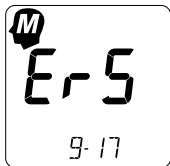
To access the meter memory, press the blue power button and hold down for five seconds. When the display flashes, release the blue power button. You are now in memory mode. First, the 14-day average will appear. The average is calculated from the blood glucose results obtained during the last 14 days. When you press the green C button, your 30-day average appears. Consult your healthcare professional for the appropriate use of these averages. Each time you press and release the green C button, the meter will recall up to your last 150 test results in order.

To scroll quickly through the results, press and hold the green C button.



(Examples)

If a previous test resulted in an error condition, the error will be stored in the memory with the date.



(Example)

Note: A “Hi” result will be included in your 14- and 30-day averages as 27.8 mmol/L.

The time and date must be reset every time the batteries are replaced.

Uploading Memory Data

Test results stored in the memory may be uploaded to a personal computer. Call the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 382-7226) for more information.

CARING FOR YOUR METER

Your SureStep® Blood Glucose Meter is easy to maintain. However, to keep it in good operating condition, follow these simple rules:

General Care

- Keep your meter dry and avoid exposing it to extremes in temperature. Do not store your meter or test strips in a car or refrigerator.
- Dropping the meter could damage its electronics. If you drop your meter, do a control solution test to ensure it is working properly.
- Do not take the meter apart. Sensitive parts could be damaged, causing false results and voiding the warranty.

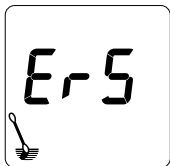
Cleaning the Meter

Clean the test strip holder (cover and base), lens area, and contact points with water when there is dirt, blood, or lint present.

CAUTION:

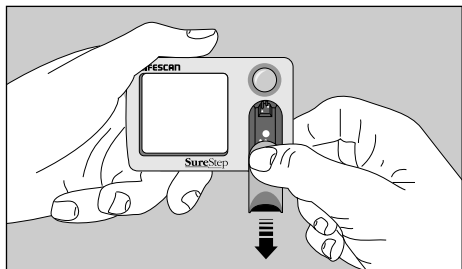
- Use only water when cleaning the meter. **Do not** get water inside the SureStep® Meter. Never immerse the meter or hold it under running water.
- **Do not** use cleansers or glass cleaners with ammonia.
- When disinfecting the meter, use a 10% bleach solution (9 parts water, 1 part bleach) and remove with water.

Always clean your meter when this symbol appears:



If you are concerned that your test results do not compare with how you feel, clean the meter and do a control solution test to check if it is working properly. Clean the meter using these easy steps:

Step 1: Remove the Test Strip Holder.

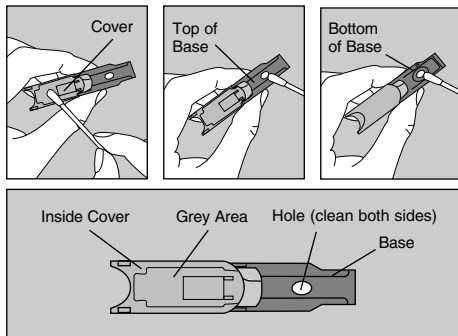


Press down at the top end (near the blue power button) of the test strip holder and slide it away from the meter.

Step 2: Clean the Test Strip Holder.

Remove debris from the **test strip holder** by wiping gently with a cotton swab or cloth dampened with water.

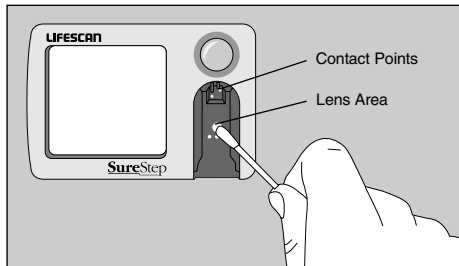
Make sure you thoroughly wipe the grey area on the inside cover. Wash both sides of test strip holder base; carefully clean around the hole. **Dry the test strip holder completely with a soft cloth or lint-free tissue.**



Step 3: Clean the Lens Area and Contact Points.

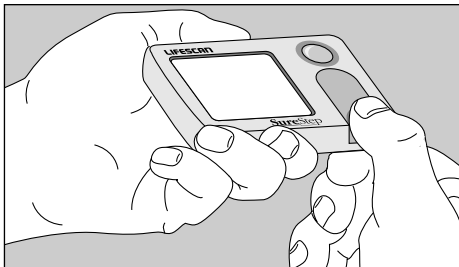
Use a cotton swab or a soft cloth dampened with water to wipe the lens area and contact points. Be careful not to scratch the lens area.

Dry with a soft cloth or tissue that does not contain lint, lotion, or perfume. Do not use abrasive materials such as paper towels.



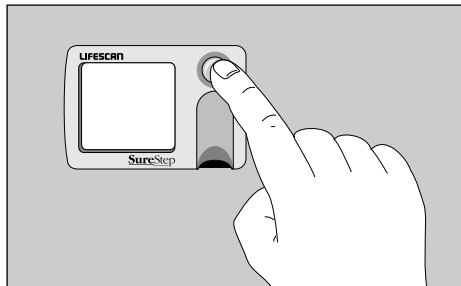
Step 4: Replace the Test Strip Holder.

Slide the test strip holder into the meter, press down, and push forward at the test strip insertion point until you hear a click. Make sure the test strip holder is firmly in place. Make sure it does not extend beyond the meter.

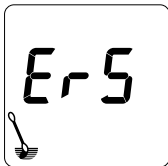


Note: You can clean the outside of the meter by lightly wiping it with a damp cloth.

Turn on the meter.



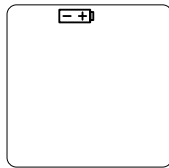
If this symbol appears after cleaning the meter, check to see if you inserted the test strip holder completely and securely. The test strip holder may be out of position. See pages 67–72 for error descriptions.



Note: If using a 10% bleach solution, this message may indicate that you have not completely removed the bleach residue on the grey area of the inside of the test strip holder cover. Wipe with a cloth dampened with water and dry thoroughly.

Changing the Batteries

The SureStep® Blood Glucose Meter comes with two AAA alkaline batteries already installed. When this symbol appears,



the batteries are low and you should replace them as soon as possible. The meter will still provide accurate test results with low batteries. If the symbol starts

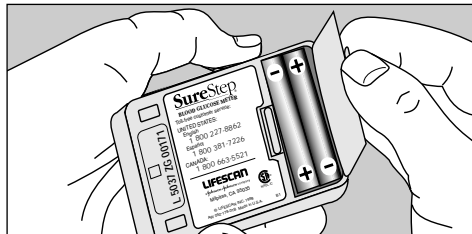
flashing, the batteries are now dead and the meter will not operate. (You will not be able to do a test.) You should replace both batteries immediately with new AAA alkaline batteries. **Do not use rechargeable batteries.**

Note: Low batteries, dead batteries, and battery removal will not affect the test results stored in the memory. **However, the time and date must be reset every time the batteries are replaced. See pages 55–58 to learn how to set the time and date.**

To change the batteries, turn off the meter and turn it over. Follow these steps:

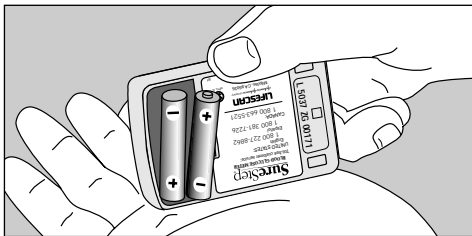
Step 1: Remove the Battery Door.

Squeeze the tab and lift up.



Step 2: Remove the Old Batteries.

Use your fingers or gently tap the meter on the palm of your hand. Never tap the meter against a hard surface.

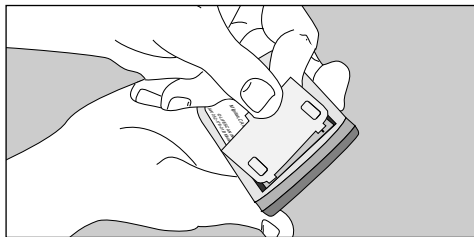


Step 3: Insert New Batteries.

Insert two new AAA alkaline batteries, matching the + end of each battery with the + signs inside the meter.

Step 4: Close the Battery Door.

Insert the two hinges into the slots and press down until the tab catches.



Note: Remember to reset the time and date after replacing the batteries.

CHANGING METER SETTINGS (Set-Up Mode)

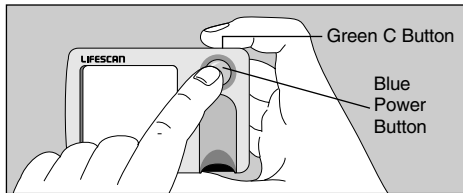
The SureStep® Meter has been pre-set to meet the needs of most users. In addition to setting the time and date, there are six features you can change.

Be sure you want to change these settings before entering the set-up mode to avoid having meter settings that do not meet your needs.

FEATURE	PRE-SET	ALTERNATIVE
Set time and date	Pacific Standard	Any
Automatic display of last result	On	Off
Unit of measurement	mmol/L	mg/dL
Beep signals during testing	On	Off
14- and 30-day test averages	On	Off
Time format	AM/PM	24 hour
Date format	Month/Day	Day/Month

Entering Set-Up Mode

1. Make sure the meter is off.
2. Press and hold down the green C button.
3. Press and release the blue power button while holding the green C button.
4. Release the green C button.



Each setting flashes on the display until you press the blue power button to move to the next feature. While it flashes, the setting may be changed by

pressing the green C button. After the last feature is displayed, the meter turns off when you press the blue power button. To move quickly through the features, press the blue power button repeatedly or press and hold it to scroll.

Setting the Time and Date

The SureStep® Meter has an internal clock that will record the time and date of each test you perform. You may need to change the time setting in your meter to have the correct time and date appear with your test result. You also will need to reset the time whenever there is a change to or from daylight saving time. (The accuracy of your

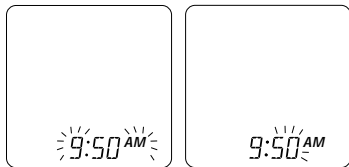
test results will not be affected if you do not set the clock to the correct time.) **The time and date must be reset every time the batteries are replaced.**

Setting the Time.

To set the time, enter the set-up mode. The display will show the time with the *hour* flashing. Press and release the green C button to advance one hour. To move faster, hold the green C button down. With the correct hour on the display, press the blue power button and the *minutes* will start flashing.

Press and release the green C button to advance one minute. To move faster, hold the green C button down

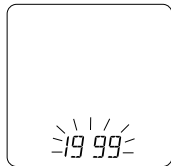
With the correct minutes on the display, press the blue power button and the year setting will appear on the display.



Note: When the time and date are changed, the calculated values for the 14-day and 30-day averages may change. These averages are calculated from the results obtained during the 14 or 30 days preceding the current time and date settings.

Setting the Year.

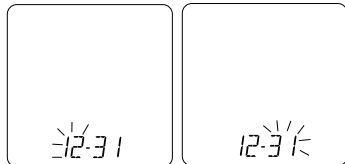
With the *year* on the display, press and release the green C button to advance one year. To move faster, hold the green C button down.



With the correct year on the display, press the blue power button and the month and day will appear (month/day format is default) on the display with the month segment flashing.

Setting the Month.

Press and release the green C button until the correct *month* appears. To move faster, hold the green C button down. With the correct month displayed, press the blue power button and the day segment will start flashing.

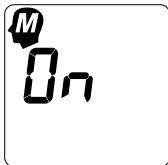


Setting the Day.

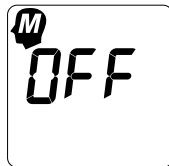
Press and release the green C button until the correct *day* appears. To move faster, hold the green C button down. With the correct day on the display, press the blue power button and the display of last result setting will appear.

Display of Last Result

The SureStep® Meter is pre-set to display your last test result automatically when you turn on the meter.



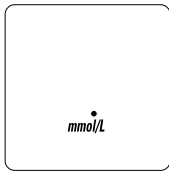
If you wish to turn off the automatic display of your last result, press the green C button. This symbol will flash,



indicating that the automatic display is turned off. Then, press the blue power button to move to the unit of measurement setting.

Unit of Measurement

The meter is pre-set to display test results in millimoles per litre (mmol/L). You have the option to select milligrams per decilitre (mg/dL), the unit of measurement used in the United States. The mmol/L results include a decimal point, but mg/dL results do not.



If you wish to change the unit of measurement to mg/dL, press the green C button. This symbol will flash on the display.



Press the blue power button to move to the beep signals setting.

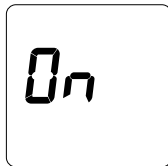
Beep Signals

The SureStep® Blood Glucose Meter uses beeping tones to signal various steps in the meter procedures.

However, these tones do not indicate that the procedures are being performed correctly. The meter is pre-set to emit three different beep signals:

1. A single, short beep signals each step in the test procedure.
2. A single, long beep accompanies error messages, a “HI” result, and certain mistakes in doing the test procedure.
3. A three-tone beep sounds when the meter displays a test result and when the meter is in set-up mode on the beep signal feature.

In set-up mode, when you move to the beep signal feature, the meter will sound a three-tone beep and flash this message:



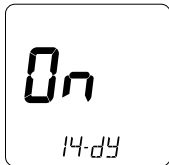
If you want the meter to operate without beeps, press the green C button to turn off the beep signals. The following display will appear:



You will hear a three-tone beep when *OFF* is displayed. Press the blue power button to move to the 14- and 30-day test averages setting.

14- and 30-Day Test Averages

The meter is pre-set to display 14-day and 30-day averages of your blood glucose test results in memory mode.



To ensure accurate 14- and 30-day blood glucose test averages, you must

mark control solution test results. This will keep them from being included in your blood glucose test averages (see pages 16 and 17).

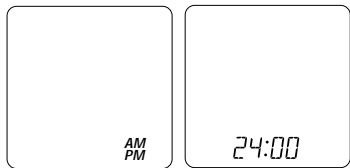
If you wish to turn the averages off, press the green C button. The following display will appear:



No average will be displayed in memory mode. Press the blue power button to move to the time format setting.

Time Format

The meter is pre-set to display the time in the 12-hour AM/PM format. An alternative 24-hour time format is available.



Press the green C button if you wish to change the setting. Press the blue power button to move to the date format setting.

Date Format

The meter is pre-set to display the date in the month/day format. Press the green C button to change the display of date to the day/month format. Press the blue power button to turn off the meter.



Exiting the Set-Up Mode

You may exit the set-up mode at any time by simply pressing the blue power button and holding it down until the display is blank.

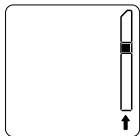
SOLVING PROBLEMS

When any of the following symbols or error messages appear, there may be a problem with the meter, test strip, or the way you are doing the procedure. These messages help to identify certain problems but do

not appear in all cases when a problem has occurred. In most cases, a problem is easy to solve. Assistance is available from the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 227-8862).

Helpful Messages

SYMBOL



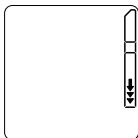
MESSAGE

The test strip was not fully inserted.

WHAT TO DO

Push the test strip in firmly until it stops.

SYMBOL



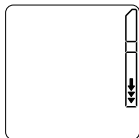
MESSAGE

1. The test strip was inserted before the meter was turned on or before the insert test strip symbol appeared, **or**
2. The test strip was inserted incorrectly, **or**

WHAT TO DO

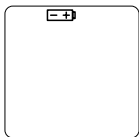
1. Remove the test strip and then reinsert after this symbol appears.
2. Reinsert the test strip, tip first, with the **pink side facing up.**



SYMBOL**MESSAGE****WHAT TO DO**

3. The test strip was inserted too quickly.

3. Reinsert test strip slowly.



If the symbol is constant, the batteries are low.
If the symbol is flashing, the batteries are dead.

Replace the batteries (see pages 51–53).

Error Messages

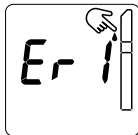
The meter gives specific error messages when it detects a problem with its internal functions, the test strip, or the testing procedure. However, improper use may cause

an inaccurate result without producing an error message or a symbol. When error messages appear, note the error number, turn off the meter, then resolve the error by following these instructions:

ERROR

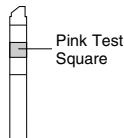
POSSIBLE CAUSE

WHAT TO DO



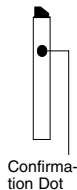
1. Blood was applied to the wrong side of the test strip, **or**

1. Clean the meter. Repeat the test with a **new** test strip, applying blood to the **pink test square**.



2. Not enough blood is on the test strip, **or**

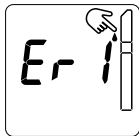
2. Repeat the test with a **new** test strip. Apply a larger drop of blood to the **pink test square** and verify that the **confirmation dot** on the back of the test strip has turned completely blue.



ERROR

POSSIBLE CAUSE

WHAT TO DO



3. The test strip was inserted more than two minutes after applying blood, **or**

3. Repeat the test with a **new** test strip. Insert it within two minutes after applying blood.

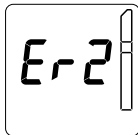
4. You may have a very high blood glucose level, possibly exceeding 27.8 mmol/L (500 mg/dL).

4. Do a visual check of the colour of the **confirmation dot** versus the Colour Chart on the test strip package. A colour that matches or is darker than the 19.4 mmol/L (350 mg/dL) colour on the chart indicates a high blood glucose level. Follow the treatment advice of your healthcare professional.

ERROR

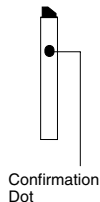
POSSIBLE CAUSE

WHAT TO DO



1. Not enough blood was applied to the test strip, **or**

1. Repeat the test with a **new** test strip. Apply a larger drop of blood to the **pink test square** and verify that the **confirmation dot** on the back of the test strip has turned completely blue.



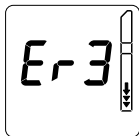
2. The test strip has been altered, exposed to air, or has passed its expiration date.

2. Check the expiration date on your test strip package. Do not store test strips outside of the original bottle. Do not alter test strips.

ERROR

POSSIBLE CAUSE

WHAT TO DO



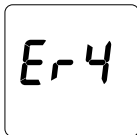
1. The test strip was removed or partially removed before the result was displayed, **or**

1. Do not remove the test strip until the meter displays the result.

2. The meter contact points are dirty.

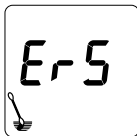
2. Clean meter contact points.

Note: If more than two minutes have passed since you applied blood to the test strip, repeat the test with a **new** test strip.

ERROR**POSSIBLE CAUSE****WHAT TO DO**

The meter is not within the temperature range of 10–35°C (50–95°F).

Allow the meter to warm or cool slowly before performing another test. Do not apply heat or cold to the meter or test strips.

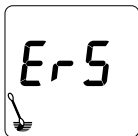


1. The meter test strip holder, lens area, and contact points are dirty, **or**

1. Clean; refer to pages 47–51.

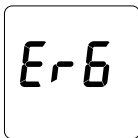
2. The test strip holder is not fully in place, **or**

2. Slide the test strip holder into the meter until it is completely inserted.

ERROR**POSSIBLE CAUSE****WHAT TO DO**

3. The test strip was partially inserted before turning the meter on.

3. Remove test strip and turn meter off. Turn meter on, then reinsert test strip when insert test strip symbol appears.



A possible failure has occurred in the meter.

Turn meter on. Before testing, check that the code on your meter matches the code on your test strip package. If Er6 continues, call the LifeScan Customer Care Line at 1 800 663-5521 (U.S.A. 1 800 227-8862).

SPECIFICATIONS

Performance Characteristics

Power Supply: Two AAA alkaline batteries.

Battery Life: Approximately 18 months when doing two tests a day.

Result Range: 0–27.8 mmol/L (0–500 mg/dL). Higher results are displayed as “HI.”

Display: Liquid crystal.

Blood Source: Whole blood.

Calibration: Plasma equivalent.

Hematocrit Range: 25–60%.

Size: 8.9 cm × 6.1 cm × 2.0 cm.

Weight: 107.7 grams with batteries.

Operating Temperatures: 10–35°C (50–95°F).

Operating Humidity Range: 10–90% relative humidity (noncondensing).

Memory: 150 blood glucose and control solution tests.

Guarantee and Warranty

30-Day Money-Back Guarantee.

If you are not fully satisfied with the SureStep® System, a full refund may be obtained by calling a LifeScan Customer Services Representative at 1 800 663-5521 (Canada) within 30 days of purchase. After calling LifeScan, you will need to return the SureStep® Meter and a copy of your receipt to receive a refund.

Six-Year Warranty.

If, at any time during the first six years after purchase, the meter does not work for any reason (except for obvious abuse), LifeScan will replace it with a new meter or equivalent product free of charge.

The Warranty Policy applies only to the original purchaser of this meter and does not include the batteries supplied with the meter.

Please complete the Warranty Registration Card and mail it to LifeScan.

The SureStep® Meter has a full six-year warranty from the original date of purchase. Write your date of purchase here:

The Warranty Policy does not apply to the performance of the SureStep Meter when used with any test strip other than SureStep® Test Strips from LifeScan, or when the SureStep Meter or Test Strips are modified in any way.

Before you return your meter, or any product, first call your LifeScan Customer Services Representative at 1 800 663-5521 (Canada) for instructions.

This warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose.

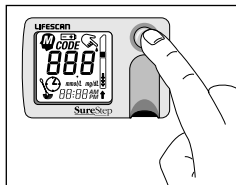
REGULATORY INFORMATION

The SureStep® Blood Glucose Meter complies with the following standards:

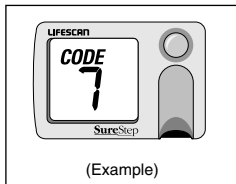
- CAN/CSA C22.2 No. 601.1 - M90 “Medical Electrical Equipment - Part 1: General Requirements for Safety” (Complies with UL 2601-1).
- CAN/CSA C108.6 - M91 (CISPR 11:1990) “Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment” (Complies with Canadian ICES-001).
 - Internally powered equipment.
 - No patient-applied parts.
 - This unit is not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

CODING THE METER

Before testing, make sure the meter is coded correctly.

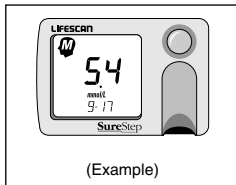


- 1 Press blue power button.



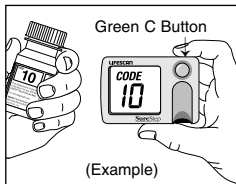
(Example)

- 3 Code number is automatically displayed.



(Example)

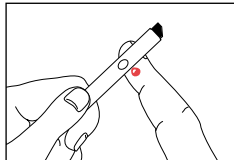
- 2 Meter automatically displays last test result with date.



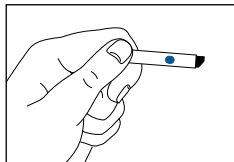
(Example)

- 4 Press green C button until code number on meter matches code number on test strip package.

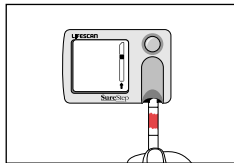
3-STEP TEST PROCEDURE



- 1 Press blue power button and apply blood to **pink test square**.



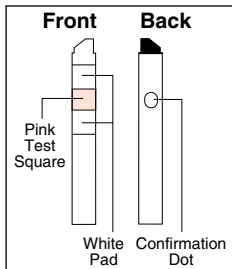
- 2 Check confirmation dot on back of test strip.



- 3 Firmly insert test strip **pink side up**, until it comes to a complete stop, and read result (30-second average test time).

BLOOD APPLICATION

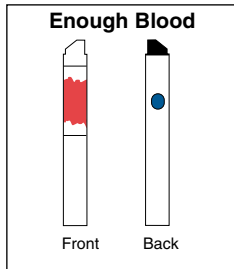
How you can be sure that you have applied the right amount of blood:



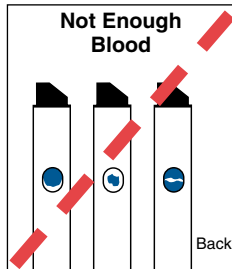
Pink test square is where you apply a drop of blood.

White pad absorbs the excess blood that may extend beyond the pink test square. Do not apply blood directly onto the white pad.

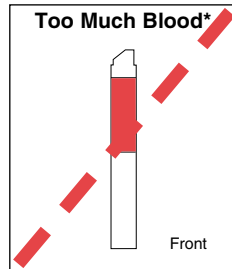
Confirmation dot on back of test strip is where you check to confirm proper blood application.



Apply a drop of blood to the pink test square on the front of the test strip. The confirmation dot on the back should be completely blue for an accurate test.



If any white patches or streaks appear on the blue confirmation dot, you have not applied enough blood for an accurate test. You must start the test over with a new test strip to avoid false low results.



If there is no white visible on the white pad, you have applied too much blood. You must start the test over with a new test strip to avoid false high results.

***Be careful not to apply too much blood, especially if you tend to bleed easily or are taking blood-thinning medications.**



LifeScan Customer Care Line/Ligne InfoSoins :

Monday–Friday 9^{AM}–8^{PM} Eastern Time, 6^{AM}–5^{PM} Pacific Time

Du lundi au vendredi de 9 h à 20 h, heure de l'Est et de 6 h à 17 h, heure du Pacifique

Canada 1 800 663-5521

U.S.A./É.-U. 1 800 227-8862



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