

Dear GlucoSure® Voice Owner

Thank you for choosing the GlucoSure Voice Blood Glucose Monitoring System to help you manage your diabetes. We designed the GlucoSure Voice Blood Glucose Monitoring System to be accurate and easy to use. The added convenience of the bi-lingual voice feature can be use as a verbal aid for using the meter and hearing test results by visually impaired users. This manual contains all of the information needed to use and maintain your new blood glucose meter. Please read it carefully before use.

Your GlucoSure Voice Blood Glucose Monitoring System provides an easy and precise way to measure blood glucose using fresh capillary whole blood taken from fingertips, palm, or forearm. Testing is done outside the body (in vitro diagnostic use). The test results are plasma-calibrated for easy comparison to lab results. The GlucoSure Voice Blood Glucose Monitoring System is a portable battery operated meter intended for use as an aid by persons with diabetes and by health care professionals to monitor glucose concentration in whole blood.

If you have questions or simply need more information, please call us at 1-800-818-8877. We are available 24 hours a day, 7 days a week, or you can also visit our website at www.apexbio.com. Thank you again for choosing the GlucoSure Voice Blood Glucose Monitoring System.

Table of Contents

Understanding Your New Blood Glucose Kit

- The GlucoSure Voice Meter5
- The GlucoSure Voice Test Strip7
- Meter Display Screen8

Coding the Meter10

Setting Up Your New System

- The Set Up Screen12
- Setting the Clock13
- Setting the Alarm16
- Voice and Beeper Function19

Voice Function Table22

Control Solution Testing

- Performing a Control Solution Test27
- Control Solution Trouble Shooting31

Testing Your Blood Glucose

- Preparing Your Lancing Device32
- Important Information on Alternate Site Testing (AST)34
- Performing a Blood Glucose Test35

Understanding Your Blood Glucose Test Results

.....41

Viewing Stored Readings and 7, 14, 30 Days Average	43
Caring for the Meter	
• Changing the Battery	46
• Cleaning the Meter	47
• Storage and Precautions	47
Solving Problems	48
Product Warranty	52
Specifications	53

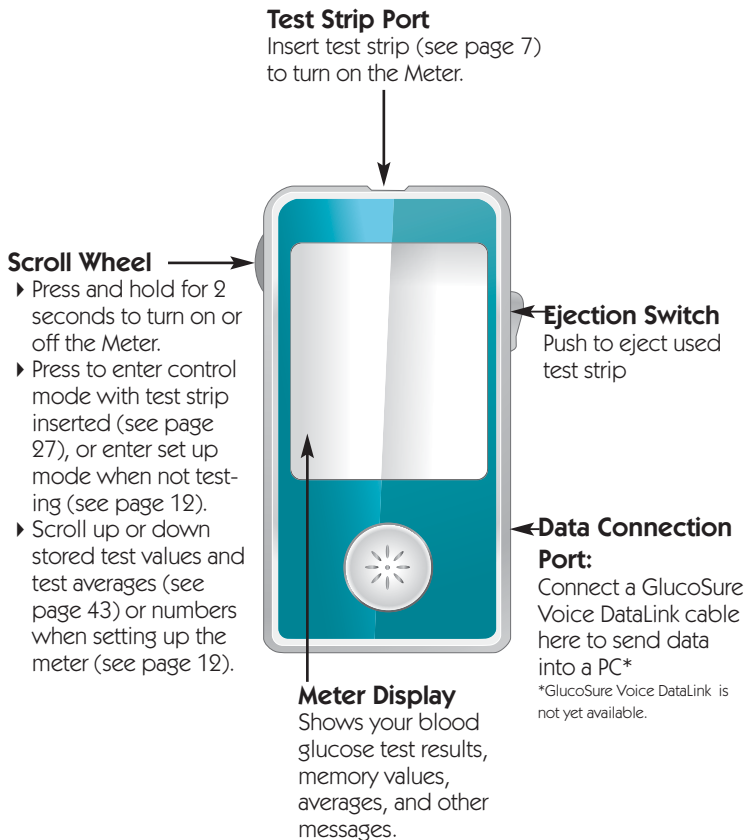
Understanding Your New Blood Glucose Kit

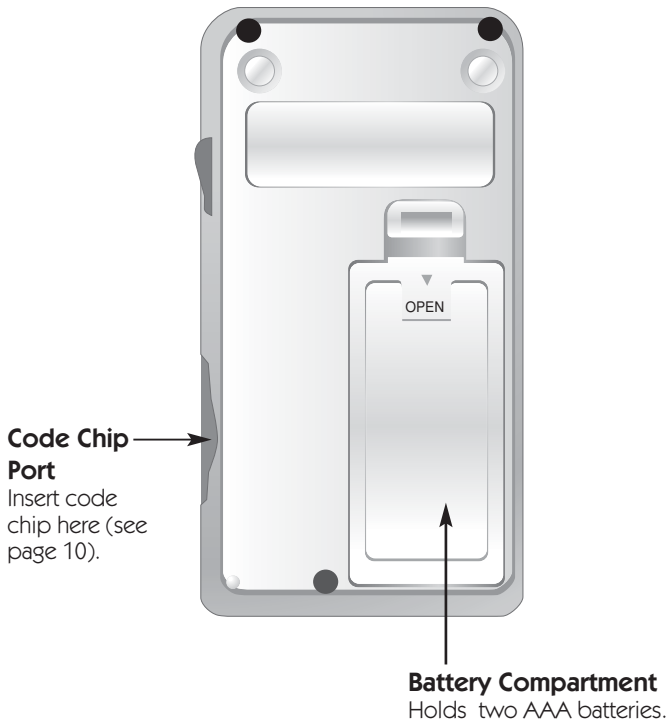
The GlucoSure® Voice Blood Glucose Monitoring System comes in either as a starter kit or simple kit. Each kit may include the following items:

Contents	GlucoSure® Voice	
	Starter Kit	Simple Kit
GlucoSure® Voice Meter	✓	✓
Instruction Manual	✓	✓
Carrying Case	✓	✓
Log Book	✓	✓
Lancing Device with Clear Cap	✓	
Test Strips	✓	
Lancets	✓	
Glucose Control Solution	✓	
Code chip	✓	

The kit contents may vary in certain areas.

The GlucoSure® Voice Meter





The GlucoSure® Voice Blood Glucose Test Strip



Contact Points

Insert this end to the test strip port on the Meter.



Sampling End

Apply a drop of blood or control solution to this end .

The GlucoSure Voice Test Strips are glucose specific, biosensor-based test strips that require very little blood sample to quickly test glucose in fresh capillary whole blood. The test results are plasma-referenced for easy comparison to lab results, but may be 10 to 15% higher than results obtained from whole-blood referenced blood glucose assays. The test strip is also equipped with under-fill detection to alert you when there is not enough blood to perform a test, so you can be assured that each reading provides an accurate and meaningful result.

IMPORTANT:

- Immediately close the vial cap of the test strip bottle tightly after each use. Keep the unused test strips in its original bottle. **DO NOT** leave any test strips outside the bottle while not in use.
- **DO NOT** reuse test strips. Test strips are for single use only.
- Carefully discard used test strips and lancets in proper waste containers.

Meter Display Screen

CABLE

Indicates the meter is in data transfer mode to PC*.

*GlucoSure Voice DataLink is not yet available.

BATTERY

Appears when batteries need to be changed (see page 46).

BEEPER

Set sound volume (see page 19).

CODE

Indicate the current number in meter display is a code number. Verify this number with the code number printed on the test strip package before you test.

MEM

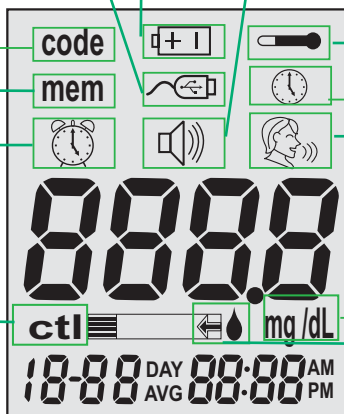
Indicates the number in the meter display is a stored test value (see page 43).

ALARM

Set Alarm and indicates alarm has been set (see page 16).

CTL

This icon indicates a control solution test (see page 35) or the stored value is a control solution result (see page 43).



Displays the date, time, am/pm (in 12-hour setup, see page), or type of day averages (7, 14, or 30, see page 43)

TEMPERATURE

Appears when it is either too hot or too cold to test (outside the ranges of 50°F~104°F).

CLOCK

Indicates the Meter is ready to set up time and date (see page 13).

LANGUAGE SELECTION

Indicates the language selection (see page 20).

UNITS

Unit of measurement for your blood glucose is mg/dL.

BLOOD DROP and ARROW

Indicate the Meter is ready for testing .

Coding the Meter

Code the meter by inserting a lot specific code card to ensure accurate test results. The code card is included inside each box of GlucoSure Voice Blood Glucose Test Strips.

You will need:

- ✓ A code card for the GlucoSure Voice Blood Glucose Test Strips
- ✓ Your GlucoSure Voice Meter
- ✓ A GlucoSure Voice Blood Glucose Test Strip

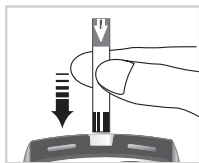
Step 1:

Insert the code card with connectors facing up and push in to make sure complete insertion into the meter.



Step 2:

Take out a GlucoSure Voice Test Strip from the test strip bottle and close the bottle immediately. Insert the test strip to turn on the meter.



Step 3:

The meter will display all of its segments. The code number will appear on the meter display screen. If voice feature is on, the meter will announce the current code number. Verify the code number on the screen with that on the test strip bottle or its package. The numbers (in this example) should be the same.

**NOTE:**

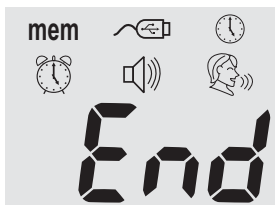
- You can insert the code card while the meter is on. The display screen will flash and show the new code number from the code card. Make sure the numbers are the same on the meter display screen, the code card, and test strip package.
- Remember to change the code card when using a new package of test strips.
- Code number will not be erased when changing batteries.

Begin testing (see page 32, "Testing Your Blood Glucose"), or turn off the meter by ejecting the test strip.

Setting Up Your New System

The Setup Screen

The Setup Screen of the GlucoSure Voice Meter lets you take advantage of the advance functions of this meter. The scroll wheel will assist you to select the function you want, simply scroll to the desired functional icon, and press the scroll wheel to enter that function when the icon is flashing. Scroll to End at the display screen to exit the Setup Screen. The meter will also announce each function when the voice feature is on.



MemPress the scroll wheel to enter Memory Recall to retrieve stored results. Your Meter can memorize up to 300 memories with date and time. (see page 43)

CABLEIndicates the meter is in data transfer mode to PC*.

*GlucoSure Voice DataLink is not yet available

Clock:Press the scroll wheel to enter Time and Date Setup (see page 13).

Alarm Clock:.....Press the scroll wheel to enter Alarm Setup (see page16). Your meter can have as much as 3 alarm settings.

Beeper:.....Press the scroll wheel to enter Volume Setup (see page19).

Voice:.....Press the scroll wheel to enter Language Selection (see page19).

End:Exit Setup Screen and return to testing.

Setting the Clock

You will need:

- ✓ Your GlucoSure Voice Meter

NOTE:

If date and time on the GlucoSure Voice Meter has not been set, test or control result will not be stored in memory.

Step 1.


Press and hold the scroll wheel to turn on the meter.



Step 2.

The code number will appear on the meter display screen. If the voice function is on, the meter will announce the current code number and ask to insert a test strip. Press the scroll wheel to enter setup screen.

Step 3:

Scroll up or down until the  starts to flash. If the voice function is on, the Meter will say, "Set date and time." Press and release the scroll wheel to enter clock setup.



Step 4 - Set Year

Press the scroll wheel and the current year will flash. If the voice function is on, the Meter will say, "Set Year." Press and release the scroll wheel to confirm your choice and advance to set the month.



Step 5 - Set Month

The current month will flash. If the voice function is on, the Meter will say, "Set Month." Scroll up or down to select the correct month. Press and release the scroll wheel to confirm your choice and advance to set the date.

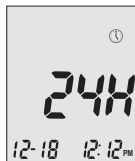


Step 6- Set Day

The current date will flash. Scroll up or down to select the correct day. If the voice function is on, the Meter will say, "Set Day." Press and release the scroll wheel to confirm your choice and advance to set time format.

**Step 7- Set Time Format to 12-hours or 24-hours**

The current time format will flash. Scroll up or down to select for either 12-hours format or 24- hour format. If the voice function is on, the Meter will say, "Set 12-hour, set 24-hour." Press and release the scroll wheel to confirm your choice and advance to set hour.

**Step 8 - Set Hour**

The current hour will flash. If the voice function is on, the Meter will say, "Set Hour." Scroll up or down to select the correct hour. Press and release the scroll wheel to confirm your choice and advance to set minutes.

**Step 9 - Set Minutes**

The current minutes will flash. If the voice function is on, the Meter will say, "Set



Minutes. Scroll up or down to select the correct minutes. Press the scroll wheel to confirm your choice and finish setting the clock.

Set AM/PM (if selected 12-hours time format in step 7)

Step 1: Scroll up or down to select AM or PM.



NOTE:

- Anytime during set up, inserting a GlucoSure Voice Test Strip will begin testing. Any changes made so far are will be stored.
- You may need to reset the time after changing batteries.

Begin testing by inserting a GlucoSure Voice Blood Glucose Test Strip (see page 32, "Testing Your Blood Glucose"), or press and hold the directional wheel to turn off the meter, or see the next section on how to set up the alarm feature on your meter.

Setting the Alarms

You can set up to three alarms on the GlucoSure Voice Meter. You must set the clock before you can set the alarms. When an alarm sounds, the meter will turn on, and a melody will sound for 30 seconds. Pressing the scroll wheel or inserting a test strip will silence the alarm. You can set up one or all three alarms.

You will need:

- ✓ GlucoSure Voice Meter


Step 1:

Press and hold the scroll wheel to turn on the meter.


**Step 2:**

The code number will appear on the meter display screen. If the voice function is on, the meter will announce the current code number and ask to insert a test strip. Press the scroll wheel to enter setup screen.

Step 3:

Scroll up or down until the  start to flash. If the voice function is on, the meter will say, "Set Alarm 1." Press the scroll wheel to enter alarm setting.

Step 4:

The display screen will indicate alarm 1 status  (the default is OFF). You can turn it on or off by scrolling up or down.

**Step 5:**

Press the scroll wheel and the hour will flash. Scroll up or down to select the hour. Press the scroll wheel to confirm your choice and advance to set minutes.



Step 6:

The current minutes will flash. Scroll up or down to select the correct minutes. Press the scroll wheel to confirm your choice and advance to set alarm 2.



Step 7:

Set alarm 2 and 3 following steps 4 through 6. After you have finish setting up alarm 3, press the scroll wheel to exit alarm setup.

NOTE:

- Alarm will not sound during testing.
- Alarm will follow the time format (12-hours or 24-hours) you choose when setting up the clock.
- Alarm settings will not be erased when changing batteries.

Begin testing by inserting a GlucoSure Voice Blood Glucose Test Strip (see page 32, "Testing Your Blood Glucose"), or press and hold the scroll wheel to turn off the meter, or see the next section on how to set up the voice feature on your meter.

Voice and Beeper Function

Your meter has a bilingual voice function that can be used as a verbal aid for using the meter and hearing test results. The default setting for the voice function is on, and can be switched off to conserve battery power. When the voice function is off, the meter will beep to alert you to important messages.

You will need:

- ✓ Your GlucoSure Voice Meter

Setting Volume

Step 1:


Press and hold the scroll wheel to turn on the meter.



Step 2:

The code number will appear on the meter display screen. If the voice function is on, the meter will announce the current code number and ask to insert a test strip. Press the scroll wheel to enter setup screen.

Step 3:

Scroll up or down until the  start to flash. Press the scroll wheel to enter volume setting.

Step 4:

The display screen will show the current sound volume (default is 2).

Scroll up or down to adjust the sound vol-

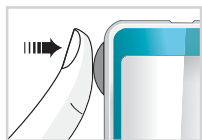


ume from 1 (lowest) to 5 (highest). A melody will sound according to the sound volume you have selected. Setting to 0 will turn off the voice function. The meter will instead beep to alert you to important messages. Once you have determined the suitable volume, press the scroll wheel again to exit volume setting.

Language Selection


Step 1:

Press and hold the scroll wheel to turn on the meter.



Step 2:

The code number will appear on the meter display screen. If the voice function is on, the meter will announce the current code number and ask to insert a test strip. Press the scroll wheel to enter setup screen.

Step 3: Scroll up or down until the  start to flash. The meter will announce "Language Selection.".

Step 4:

The default language (1 on the display screen) is announced. Press the scroll wheel to select another language. Press the scroll wheel again when you have finished selecting the language and exit language selection.



NOTE:

- Anytime during set up you can insert a GlucoSure Voice Test Strip and begin testing. Any changes made so far are stored.
- Your choice of language and volume settings will not be erased when changing batteries.

Begin testing by inserting a GlucoSure Voice Blood Glucose Test Strip (see page 32, "Testing Your Blood Glucose") or press and hold the scroll wheel to turn off the meter.

Voice Function Table

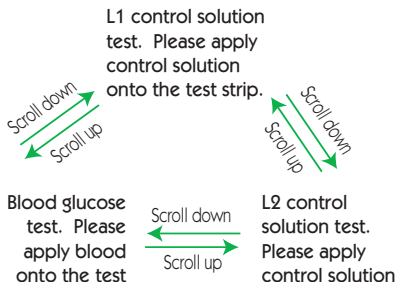
The voice function can be used as an aid for you to hear the test results and use the meter. The following table lists WHEN the meter will speak and WHAT the meter will say.

Testing blood and control solutions (see page 27, *Control Solution Testing*, and page 32, *Testing your blood glucose*)

WHEN the meter will speak....	WHAT the meter will say....
Turned on	Greeting Tone
Announcing the code number when turned on, when test strip is inserted, or changing the code card	"The code number is xxxx."
Prompt user to insert test strip	"Please insert test strip"
Test strip is inserted and the meter is ready to test (with flashing arrow and blood drop)	"Blood glucose test. Please apply blood onto the test strip"
Blood Glucose test is completed and the result is shown on screen.	"Your blood glucose reading is (number) milligram per deciliter."

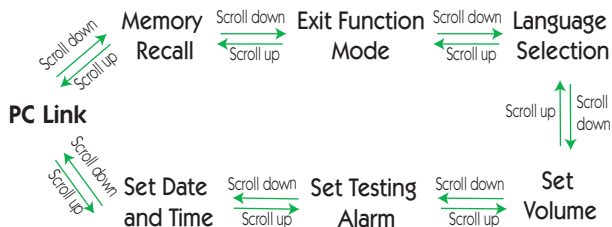
WHEN the meter will speak....	WHAT the meter will say....
Blood Glucose test result is BELOW the measurement range of 20 mg/dL.	"Your blood glucose reading is below 20mg/dL"
Blood Glucose test result is ABOVE the measurement range of 600 mg/dL.	"Your blood glucose reading is above 600mg/dL"
Control solution test is completed and within range. The result is show on screen	"Your L1/ L2 control solution test result is (number) mil-ligram per deciliter, is within range"
Temperature is outside of testing range(50°F~104°F).	"Temperature is out of range"
When the meter is turned off	Melody

Test Strip is inserted and use the scroll wheel to scroll up or down (CTL showing next to the test strip icon)



Setting Meter Functions via the Setup Screen (see page 12, "Setting Up Your New System")

Pressing the scroll wheel to enter setup screen (after the Meter has turned on and announced the code number)



WHEN the meter will speak....	WHAT the meter will say....
During date and time setup, setting up the year	Set Year
During date and time setup, setting up the month	Set Month
During date and time setup, setting up the date	Set Date
During date and time setup, setting up the hour	Set Hour
During date and time setup, setting up the Minutes	Set Minutes

WHEN the meter will speak....	WHAT the meter will say....
After finishing set up date and time	The date and time is (year) (month) (date) (hour) (minutes)
Setting alarm 1, 2, or 3	Set Alarm (number)

Other warning messages (see page 48, solving problems)

WHEN the meter will speak....	WHAT the meter will say....
Meter has not been coded with a code card	Please insert the code card
Meter date and time has not been set	Please set date and time
Meter failure	Error 1 Meter Failure
Test strip expired	Error 2 expired test strip
Used test strip	Error 3 used test strip
Not enough blood or control solution	Error 4 not enough sample

Control Solution Testing

The purpose of the control solution testing is to make sure the GlucoSure Voice Meter and the Test Strip are working properly. You should perform control solution testing when:

- Verifying that the meter and the test strips are working properly together at least once per week
- Using the meter for the first time
- Using a new bottle of GlucoSure Voice Blood Glucose Test Strips
- You left the test strip bottle cap open for a while
- You dropped the meter
- You suspect your meter and test strips are not working properly
- The blood glucose test results do not reflect how you feel
- Practice the testing procedure

IMPORTANT:

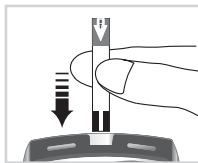
- Use only the Contrex™ Plus Glucose Control Solutions with the GlucoSure Voice Test Strips. Other brands of control solution will produce inaccurate result.
- Always check the expiration date. DO NOT use control solutions if expired.
- DO NOT FREEZE. Store the control solutions at room temperature.

You will need:

- ✓ Contrex™ Plus Control Solution (Level 1 or Level 2)
- ✓ Your GlucoSure Voice Meter
- ✓ A new GlucoSure Voice Blood Glucose Test Strip

Step 1.

Take out a GlucoSure Voice Test Strip from the test strip bottle and close the bottle immediately. Insert the test strip to turn on the meter.



IMPORTANT:

- Check the expiration date printed on the test strip bottle and its package. Do not use expired test strips.
- Use each test strip immediately after removing it from the bottle.
- Do not use wet or damaged test strips.
- Keep away from direct sunlight and heat. Store the test strip bottle in a dry, cool place.
- Record the "date opened" on the bottle label. Discard the bottle and any remaining test strip after 3 months from date of opening.
- Test under within the temperature range of 50°F to 104°F. Your meter will not work outside these ranges.

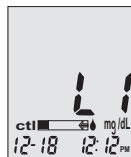
Step 2:

The code number will appear on the meter display screen and be verbally announced by the meter if you have the voice feature turned on. Verify the code number with that on the test strip bottle or its package. The numbers (in this example) should match.



Wait until the flashing blood drop and arrow icons appear on the meter display screen. The meter will also announce,

"Please apply blood onto the test strip" if you have the voice feature turned on. Use the scroll wheel to enter L1 control solution testing.



IMPORTANT:

- Replace the code card if code number displayed on screen and the code number printed on the test strip bottle do not match, refer to "Coding the Meter" on page 10.
- Remember to change the code card when using a new package of test strips.

Step 3:

A **ctl** icon will appear next to the test strip icon and "L1" will appear on the meter display screen. The meter will also announce "L1 (or L2) control solution test, please apply control solution onto the test strip." If you decide not to do a control solution test, scroll up or down until "Ctl" disappeared from the meter display.

Step 4:

Squeeze a drop of control solution onto a clean, dry, nonabsorbent surface. Do not apply control solution to the test strip directly from the bottle. Replace the bottle cap on the control solution bottle immediately after use.

Step 5:

Gently touch the drop of the control solution to the tip of the test strip. The meter will beep indicating it has received the control solution.



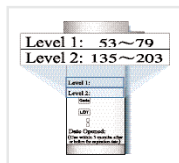
Step 6:

The screen will start to count down. After 6 seconds, the control test result will appear on the meter's display screen and announce the test result if the voice feature is turned on.



Step 7:

Compare the reading on the screen to the Level 1 range printed on the test strip bottle or its package. If the reading falls outside the Level 1 range printed on the test strip bottle or its package, see "Control Solution Trouble Shooting", on page 31.



NOTE:

- Control solution testing results will be stored into the meter memory and indicated by **ctl** icon.
- Control solution testing result will not be used for calculating averages.

Step 8:

Eject the used test strip into proper wastebasket. The meter will automatically turn off.



IMPORTANT: Do not reuse Test Strips.

Follow steps 3 through 8 to do a Level 2 control solution testing and compare the result with the Level 2 range printed on the test strip bottle.

Control Solution Trouble Shooting

If your control solution testing is out of range (too high or too low), it maybe caused by the following:


Possible Causes	What you can do.....
<ul style="list-style-type: none"> • Wrong brand of Control Solution being used • Control solution not at room temperature • Improper coding of the meter • Expired or contaminated control solution • Damaged test strip. • Meter malfunction 	<ul style="list-style-type: none"> • Make sure you are using Contrex™ Plus Control Solution. • Make sure the testing environment is between 50°F to 104°F. • Check if the code number of the meter and the test strip package match. If not, See "Coding the Meter" on page 10. • Check the expiration and open bottle date on both the control solution and test strips. Repeat testing using a new test strip. If the result is still out of range, use a new bottle of control solution and retest. • If problem persists, call 800-818-8877.

Testing Your Blood Glucose

Materials you will need:

- ✓ Your GlucoSure Voice Meter
- ✓ A new GlucoSure Voice Blood Glucose Test Strip
- ✓ Lancing device with a clean, unused lancet (or safety lancets)
- ✓ Clear cap for Alternate Site Testing (AST) on palm and forearm

Before you begin, make sure:

- Set up your meter properly and run a control test. See "Setting Up Your New System" on page 12, and "Control Solution Testing" on page 27 for details.
- Wash your hands and testing site thoroughly with soap plus warm water, and dry well.
- You are testing in an area between the temperature ranges of 50°F ~104°F. Your meter will not test outside of this range and will display , with verbal indication if the voice feature is turned on. Move the meter into an area that is between 50°F ~104°F, and let it sit for 10 to 15 minutes before testing again.

Preparing Your Lancing Device

Step 1:

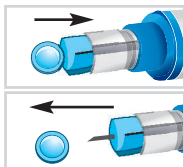
Insert a GlucoSure Voice Blood Glucose Test Strip into the Meter with the arrow mark facing up. Make sure the test strip is inserted all the way



into the Meter. Close the test strip bottle immediately after you take out a strip.

Step 2:

Twist the protective cover off from the lancet. Twist clockwise the adjustable cover back onto the lancing device.



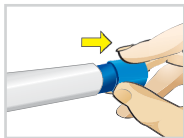
Step 3:

Adjust the puncture setting on the adjustable cap for the puncture depth level (1 is the lightest and 5 is the deepest).



Step 4:

With one hand holding the adjustable cap, pull back the lancing device with your other hand until you hear a click sound. The lancing device is now ready for blood sampling.

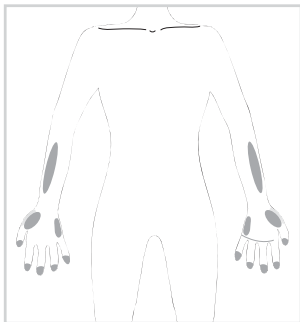


IMPORTANT:

Use a new sterile lancet every time you test to avoid cross contamination. If alcohol wipes are used to cleanse the fingers, make sure the area is dry before the blood sample is obtained.

Important Information on Alternate Site Testing (AST)

The GlucoSure Voice Blood Glucose Monitoring System can test for blood glucose other than your fingertip such as palm and forearm (alternate site testing, or AST). Alternate site testing can be less painful than fingertip testing, but because of the physiological differences between your fingertip and palm and forearm ⁽¹⁾; alternate



site test results may be significantly different than results from fingertip testing under certain conditions. You should consult with your doctor or healthcare professional before using alternate site testing.

Alternate Site Testing SHOULD NOT be use when:

- You have Hypoglycemic unawareness (not able to tell if you have low blood sugar)
- Within 2 hours of a meal, exercise, or medication (such as rapid-acting insulin injection)
- You will be operating machinery or driving a car.
- You are sick

NOTE:

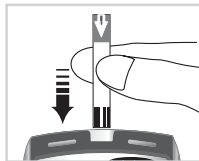
- Rubbing forearm until warm before lancing will help minimize the difference with fingertip test results. The palm (at the base of the thumb) does not require rubbing before testing.
- If results from alternate site testing do not agree with how you feel, use fingertip testing instead.

1. Jungheim K., Koschinsky T.: "Risky delay of hypoglycemia detection by glucose monitoring at the arm." *Diabetes Care* 2001;24(7):1303-04.

Performing a Blood Glucose Test

Step 1:

Take out a GlucoSure Voice Test Strip from the test strip bottle and close the bottle immediately. Insert the test strip to turn on the meter.



IMPORTANT:

- Check the expiration date printed on the test strip bottle and its package. Do not use expired test strips.
- Use each test strip immediately after removing it from the bottle.
- Do not use wet or damaged test strips.
- Keep away from direct sunlight and heat. Store the test strip bottle in a dry, cool place.
- Record the "date opened" on the bottle label. Discard

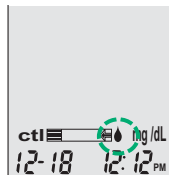
the bottle and any remaining test strip after 3 months from date of opening.

Step 2:

The code number will appear on the meter display screen and be verbally announced by the meter if you have the voice feature turned on. Verify the code number with that on the test strip bottle or its package. The numbers (in this example) should match.



Wait for a flashing blood drop and arrow icon appears on the meter display screen. The meter will also announce, "Please apply blood onto the test strip" if you have the voice feature turned on.



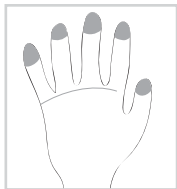
IMPORTANT:

- Replace the code card if code number displayed on screen and the code number printed on the test strip bottle do not match, refer to Coding the Meter on page 10 .
- Remember to change the code card when using a new package of test strips.

Step 3

For Fingertip Testing:

Hold the lancing device (**use the blue adjustable cap**) against the side of your fingertip and press the release button to create a puncture.



TIP:

- Gently massage your hand and finger toward the puncture site to form a drop of blood (approximately ●). Do not "milk," or squeeze around the puncture site.
- Lance the side of your fingertip to avoid soreness. To avoid calluses, choose a different lancing site each time.

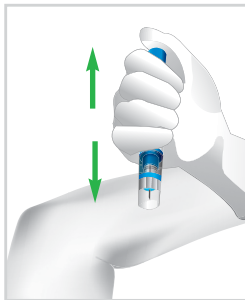
Step 3

For Testing on Palm and Forearm:

Hold the lancing device (use the clear cap) against the test site (base of palm or forearm). Avoid a test site that has veins, moles, excessive hair, or bone. Press the lancing device firmly against the test site and press the release button, do not lift up.



For forearm test sites, apply and release pressure ("Pumping") to the lancing device for a few seconds while keeping the lancing device in constant contact with the skin. Palm testing (at the base of the thumb) does not require pumping. When the blood is approximately ● size, lift the lancing device straight up without smearing the blood.

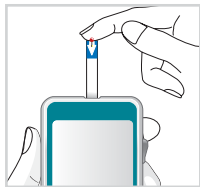


NOTE:

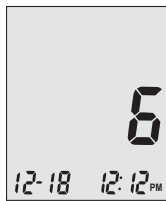
- Rubbing forearm until warm before lancing will help minimize the difference with fingertip test results. The palm (at the base of the thumb) does not require rubbing before testing.
- If results from alternate site testing do not agree with how you feel, use fingertip testing instead.

Step 4:

Gently bring the test strip and touch the drop of blood at a slight angle. The test strip acts like a straw to pull the blood in. Keep the test strip in the blood drop until the meter beeps to indicate the test strip has enough blood to test.

**Step 5:**

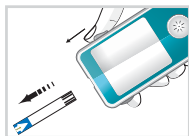
The screen will start to count down. After 6 seconds, your glucose testing result will appear on the meter display screen. Your test result will be automatically stored into the meter memory.

**CAUTION:**

If you see "HI" or "LO" displayed, your blood glucose level may be above 600 mg/dL or below 20 mg/dL, repeat testing. If you still receive the same result, call your physician or healthcare professional immediately.

Step 7:

Eject the used test strip into proper waste-basket. The meter will automatically shut off.



Step 8:

Remove the used lancet from your lancing device according to instructions and discard into proper wastebasket.

IMPORTANT:

- Discard used test strips and lancets according to your local disposal regulations.

Understanding Your Blood Glucose Test Results

Blood glucose value will vary depending on food intake, medication, health, stress, and exercise. The ideal range for adult without diabetes should be:

- 74~106 mg/dL before meals ⁽¹⁾, and
- Less than 140 mg/dL two hours after meal ⁽²⁾.

It is important to consult with your physician or healthcare professional to determine an appropriate target range for you.

What to do if you get a high or low reading

If the Meter displays results that are "HI" or "LO," or you get a result that is more than 250 mg/dL or below 50 mg/dL AND you feel ill:

- Treat your diabetes according to the instructions from your doctor and/or consult your healthcare provider.

If the Meter displays results that are "HI" or "LO," or you get a result that is more than 250 mg/dL or below 50 mg/dL AND you DO NOT feel ill:

- Make sure the code number on your meter matches the code number on the test strip bottle.
- Test your meter with a control solution, refer to page 27, Control Solution Testing.

- Test again using fingertip or palm (at the base of the thumb). Do not test on forearm.

If you still get a high or low reading, contact your health care professional.

Reference:

1. Stedman, Thomas Lathrop. Stedman's Medical Dictionary, 27th Edition, 1999, pg. 2082
2. American Diabetes Association, "Clinical Practice Recommendations 2003." Diabetes Care, Vol 26, Supplement 1, pg. S22.

Viewing Your Meter's Memory

Your GlucoSure Voice Meter automatically stores up to 300 test and control results with date and time. The meter also provides 7, 14, and 30 days averaging to help track your blood glucose trend. You must be set up your meter to use the memory and day averaging function, see "Setting Up Your New System" on page 12. The meter will not memorize test or control results if the date and time are not set.

Viewing Stored Readings and 7, 14, 30 Days Average from Memory

You will need:

- ✓ Your GlucoSure Voice Meter

Step 1:

Press and hold the scroll wheel to turn on the meter.



Step 2:

The code number will appear on the meter display screen. If the voice function is on, the meter will announce the current code number and ask to insert a test strip. Press the scroll wheel to enter setup screen.

Step 3:

Scroll until the **mem** icon start to flash. If the voice function is on, the meter will say "memory recall." Press the scroll wheel to enter.



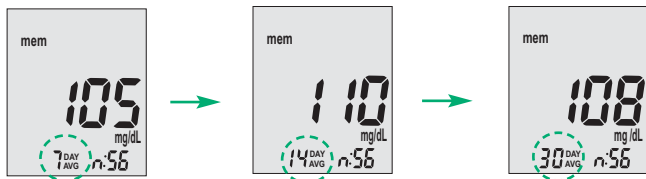
mem icon will appear at the upper left corner of the display screen together with your most recent testing result. Use the scroll wheel and push up (scroll up) to see the next result, and the next, and so on. Holding the scroll wheel up will flash through the results.

End will appear on the display screen after the last recorded test result if less than 300 readings are stored. You can push down the scroll wheel (scroll down) to go back viewing from the oldest to the most recent readings.



Step 4.

When you reach the most recent result, continue to scroll down to start viewing day averages. The meter will display the 7 days average, scroll down again to see 14 days average, and scroll down again to see 30 days average.



The number of results included in the average is shown right next to the **DAY AVG** icon. Control solution results are not included in the day average calculations

**NOTE:**


- Control testing results are flagged by **ctl** on the bottom left corner of the display screen in addition to **mem**.
- When the meter memory is blank, the display screen will show nil.
- When there are no day average data available, the display screen will show 4 dashes.
- If the meter memory is full, adding a new test result will cause the oldest one to be deleted.
- Memorized test results and day averages will not be erased when changing batteries.
- You can begin testing anytime by inserting a test strip.

After finish viewing memory or days averages, either begin testing by inserting a GlucoSure Voice Blood Glucose Test Strip (see page 32, "Testing Your Blood Glucose"), or press and hold the button to turn off the Meter

Caring for the Meter

Caring for your Glucosure Voice Meter is easy. Follow these simple guidelines to keep your meter working properly.

Changing the Battery

Batteries need to be changed when the  icon appears on the meter display.

Materials you will need:

- ✓ Two Alkaline AAA Batteries
- ✓ Your Glucosure Voice Meter

Step 1.

Press firmly on the battery cover and slide in the direction of the arrow.

Step 2.

Insert new batteries. The meter will beep after the batteries are inserted correctly. Slide the battery cover back into the meter firmly.



NOTE:

- Meter will prompt you to reconfirm the date and time when turned on. See page 13 for "Setting the Clock".
- The date, code number, stored results, alarm settings, volume setting, and language choice stay in memory when the batteries are changed.

Cleaning the Meter



- If the meter gets dirty, use a moist (NOT WET) lint-free cloth dampened with a mild detergent.
- Do not get water inside the meter or hold it under running water.
- Do not use glass or household cleaners on the meter.
- Do not try to clean the test strip holder.



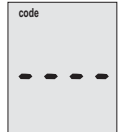

Storage and Precautions


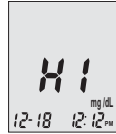

- Handle the Meter with care- severe shock, such as dropping the meter, could damage the electronics.
- The meter and test strips are designed to be used within the temperature ranges between 50°F to 104 °F
- Avoid leaving the meter in extremely hot or cold places, such as near a heat source or in an extremely hot or cold car.
- Do not store or use the meter or test strips in high humidity levels, such as bathroom or kitchen.
- Always close bottle cap immediately after removing a test strip and make sure its closed tightly.
- Do not take the meter apart. Doing so will void the warranty. If there are technical problems or questions, call us at 800-818-8877.


Solving Problems

This section details the significant display screen messages and error codes you will encounter when using your GlucoSure Voice meter and test strips.

What You See	What the meter says	What it Means	What Should You Do
	<p>"Error 1 Meter Failure"</p>	<p>The meter electronics are damaged</p>	<ul style="list-style-type: none"> Remove the batteries and turn on the Meter again. If problems persists, call us at 800-818-8877.
	<p>"Error 2 Expired Test Strips"</p>	<p>Expired Test Strips</p>	<ul style="list-style-type: none"> Check if meter's date and time are set correctly; see "Setting the Clock" on page 13. Check the test strip bottle and verify the expiration date. Check the code number on both the meter display screen and the test strip bottle or its package to make sure they match.

What You See	What the meter says	What it Means	What Should You Do
	"Error 3 used test strip"	Used or damaged test strip	Repeat the test with a new test strip. Remember to add sample only until you see the prompt on the display screen or the meter verbally prompts you to add sample.
	"Error 4 not enough sample"	Not enough sample in the test strip to start	Remove the Test Strip and repeat the test with a new test strip. See "Testing Your Blood Glucose" on page 32.
	"Please insert the code card"	The Meter is not coded	See "Coding the Meter" on page. If the same message appears, call us at 800-818-8877.
	"Low Battery"	Batteries are low	Change the battery according to page 46, "Inserting (or changing) the Batteries."

What You See	What the meter says	What it Means	What Should You Do
	"Temperature is out of range"	Temperature out of range	Move the meter into an area that is between 50°F-104°F, and allow 10 to 15 minutes for it to reach the new temperature.
	"Your blood glucose reading is above 600 mg/dL."	Test result is higher than 600 mg/dL	Wash and dry your hands and repeat the test on your fingertip with a new test strip. If the result is still "HI," contact your physician or healthcare professional immediately.
	"Your blood glucose reading is below 20 mg/dL"	Test result is lower than 20 mg/dL	Wash and dry your hands and repeat the test on your fingertip with a new test strip. If the result is still "LO," contact your physician or healthcare professional immediately.

What You See	What the meter says	What it Means	What Should You Do
	"NA"	There are no results stored in the meter	<ul style="list-style-type: none">• Check if the date and time on your meter is set up. See "Setting Up Your New System" on page 12.• Start testing your blood glucose, see "Testing Your Blood Glucose" on page 32.

Product Warranty

Apex Biotechnology Corporation warrants the GlucoSure Voice Blood Glucose Meter to be free of defects in workmanship and materials under normal use for a period of five (5) years from the date of purchase to the consumer.

The liability of Apex Biotechnology Corporation is limited to repair or replacement and in no event shall Apex Biotechnology Corporation be liable for any collateral or consequential damages or loss.

Instruments subjected to misuse, abuse, neglect, unauthorized repair or modification will be excluded from this warranty.

This guarantee specifically excludes expendables and consumables.

All warranty claims must be directed to the Apex Biotechnology Corporation's authorized dealer responsible for the sale of the system.

The warranty applies only to the original purchaser of the system.

Specifications

Test Strips:	GlucoSure Voice Blood Glucose Test Strips
Test Range:	20 - 600 mg/dL
Calibration:	Plasma
Test Time:	6 Seconds
Sample Size:	Minimum 1uL
Hematocrit Range:	30-55%
Display Type:	Large LCD screen
Memory:	300 blood test results with date and time
Result Averaging:	7, 14, and 30 days averaging
Dimension:	100L x 54W x 20H (mm)
Weight:	90g
Battery:	2 Alkaline AAA Battery
Battery Life:	1000 tests of continuous use or 1 year
Automatic Power-off:	After 2 minutes of nonuse
Operating Temperature:	50°F to 104°F.
Relative Humidity:	Less than 85%
Storage Condition:	Meter at 39°F~ 122°F Test Strips at 39°F~86°F
Additional Features:	Test Strip Ejection

For additional information, refer to the GlucoSure Voice Test Strip insert

