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### Preface

Thank you for selecting the **Rightest**® GM250S Blood Glucose Monitoring System. Please read this manual thoroughly before you start testing. It provides all the information you need to use the product. You will get a correct test result by the following instruction of this manual.

It is quite important for you to monitor blood glucose regularly. A derived complication can thus be effectively reduced. Through the assistance of *Rightest* (*GM250S* Blood Glucose Monitoring system, which provides considerate design and accurate results, your diabetes management can become more reliable and ease-to-use.

The **Rightest**® *GM250S* Blood Glucose Monitoring System is intended for *in vitro* diagnostic use (For self-testing & professional use) only (outside the body). The testing result is calibrated to be the plasma equivalent for testing with fresh capillary whole blood samples from the fingertip, palm and forearm. You may consult your healthcare professional for instructions on how to use the system correctly. Our Customer Support staff is available to assist you as well.

The **Rightest**® GM250S Blood Glucose Monitoring System was manufactured and supported by Bionime Corporation and its authorized representative. If you have any questions or concerns, please contact your Bionime authorized representative or call us by toll free at 1 (888) 481-8485 (Monday through Friday 8:00 AM to 5:00 PM PST).

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### Preface

We will make every effort to provide assist you.

Healthcare professional should be contacted when the authorized representatives are not available.

Please forward your warranty card to Bionime's authorized representative to activate your warranty coverage.

### **Precaution**

- Before using the **Rightest**® GM250S Blood Glucose Monitoring System to test your blood glucose, please read all the instructions and practice the tests including quality control test (Refer to page 35).
- Please do the quality control test regularly to make sure the test results are accurate.
- The **Rightest**<sup>®</sup> GM250S Blood Glucose Meter can only be used with the **Rightest**<sup>®</sup> GS250S Blood Glucose Test Strips. The use of any other brand Strips should not be used under any circumstances. The use of other brands of strips may give inaccurate results.
- The Rightest® GM250S Blood Glucose Monitoring System is intended for *in vitro* diagnostic use only. The testing result
  is calibrated to be the plasma equivalent for tests with fresh capillary whole blood samples from the fingertip, palm and
  forearm.
- The **Rightest®** GM250S Blood Glucose Monitoring System is intended for self-testing. It should not be used to diagnose diabetes mellitus.
- Rightest® GM250S Blood Glucose Monitoring System has not been validated for use on neonates. Therefore, it's not intended for use of neonates.
- Rightest® GM250S Blood Glucose Monitoring System has not been used for arterial blood testing, so it is still not suitable to be used for arterial blood testing.
- Perform the test at least 30 minutes after while entering another site with different ambient temperature.
- Pay attention to the environment protection when disposing of the batteries. 4

- Do not expose to dripping or splashing.

- The minimum blood sample size of *Rightest*® *GM250S* Blood Glucose Monitoring System is 1.0µL:(•)

Sample Size Example	1.0µL	1.5µL	2.0µL	3.0µL	4.0µL
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Please take a minimum of 1.0µL to perform the test on **Rightest** @ GM250S Blood Glucose Monitoring System. Blood sample size above 3.0µL might contaminate the test strip port and the meter.

Blood sample size below  $1.0\mu$ L might cause inaccurate test result or might not start the meter measurement. In this case, repeat the test with a new test strip.

### ↑ PRECAUTOIN

The **Rightest**® Gm250S Blood Glucose Meter will be set to mg/dL by default when sold in the United States. When your display shows " mmol/L " during setting or test, please contact customer service. Use of the wrong unit of measure may result in incorrect treatment.

Precaution

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# The Rightest® GM250S Blood Glucose Monitoring System

### Package of System Kit

Your Rightest® GM250S Blood Glucose Monitoring System consists of several items. Please identify each item of your system and learn what they're called and how they're used.

These items are included in your **Rightest**® GM250S Blood Glucose Monitoring System:

- 1. Getting Started Guide
- 2. User's Manual (includes Log Book, Warranty Card, Emergency Card) 3. **Rightest**® GS250S Blood Glucose Test Strip Package Insert \*
- 4. Control Solution Package Insert \*
- 5. Rightest® GM250S Blood Glucose Meter ( with 1 CR2032 battery installed )
- 6. Rightest® GS250S Blood Glucose Test strips (0/10/25 pcs) \*
- 7. Rightest® Control Solution \*
- 8. Rightest® Lancing Device \*
- 9. Clear Cap \*
- 10. Disposable Sterile Lancets (10 pcs) \*
- 11. Carrying Case (not shown)
- 12. Instruction for the lancing device (not shown) \*
- (\* Different packages have different bundled items. Some of packages might not include \* items.)
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# The Rightest® GM250S Blood Glucose Monitoring System





# The Rightest® GM250S Blood Glucose Meter



# The Rightest® GM250S Blood Glucose Meter

mem	Appears when you review the test result memory		Instruction to apply your blood sample
NO AVG	Appears when you exclude the test result from average calculation	C <b>\$</b>	Appears after you insert test strip into meter
AVG	Appears when you include the test result into average calculation	Code Error	Appears when you use an invalid strip
CS	Appears when you perform and review a Control Solution test	88.88	Current date under Time mode/ Test date under memory mode
mmol/L mg/dL	Unit measure of test result		Appears when ambient temperature is abnormal for testing
888	Test result	RM	Appears when you choose 12H mode for the time format
	Appears when the battery is low/when the battery is dead	88:88	Current time under Time mode/ Test time under memory mode

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# The Rightest® GS250S Blood Glucose Test Strip

The Rightest® GM250S Blood Glucose Meter can only be used with the Rightest® GS250S Blood Glucose Test Strips . The application of other Test Strips or control solutions can lead to incorrect results.



# The Rightest® GS250S Blood Glucose Test Strip



Electrode Contacts Sensing signal output terminals.

### PRECAUTION

- PRECAUTION Re-cap the **Rightest**® GS250S Blood Glucose Test Strip vial immediately after taking out a test strip.
  - Do not reuse Rightest® GS250S Blood Glucose Test Strip.
  - Do not use expired **Rightest®** GS250S Blood Glucose Test Strip.
  - Record the date when opening a new Rightest® GS250S Blood Glucose Test Strip vial for the first time. Discard the vial of test strips after 3 month from opening.
  - Store the **Rightest**® GS250S Blood Glucose Test Strip in a cool (39-86°F or 4-30°C) and dry location (< 90% relative humidity). Do not expose to direct sunlight or heat.
  - For detailed information, please refer to the **Rightest**® GS250S Blood Glucose Test Strip Package Insert.
  - If the Rightest® GM250S Blood Glucose Meter and GS250S Test Strips are exposed to a high temperature difference, please wait 30 minutes before measurement.

# Meter activation and Battery change

Your **Rightest**® GM250S Blood Glucose Meter comes with one CR2032, 3volt, battery installed. One new battery will provide power to perform about 1000 tests under normal use. You can press the main button or insert a strip to activate your meter.

# Meter activation and Battery change





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### Setting Up Your Meter- Setting the Time, Volume and Date

### You can enter Setting Mode by the following two ways.

### 1. Reload battery

After removing the battery, please press the main button for several times until there is no signal on screen, then follow the battery installation steps to load batteries. The **Rightest**® GM250S Blood Glucose Meter will do self test. Press the main button to exit the self test and enter Setting Mode.

2. Press the Main button

Press the main button to turn on the **Rightest**® GM250S Blood Glucose Meter. Then press and hold the main button for 7 seconds until you hear a beep, indicating you have successfully entered Setting Mode. The display screen will show setting data.

### NOTE

- When you keep pressing the main button for 4 seconds, the display on screen will turn off momentarily. Keep pressing the main button till entering setting data.

 Quickly pressing the Main button allows you to change setting. However, if you want to return to the time mode, you need to go through all the settings first by quickly pressing the main button.

# Setting Up Your Meter- Setting the Time, Volume and Date

### Year setting

With the year format blinking, press the Left or Right button to adjust it. Then press the Main button to confirm it. Meantime, it will shift to next digit for setting. Repeat the above action until the year setting is completed. Then it will move to Month setting.

### 2. Month setting

With the month blinking, press the Left or Right button until the current month appears. Then press the Main button to confirm it and move to Day setting.

### Day setting

With the day blinking, press the Left or Right button until the current day appears. Then press the Main button to confirm it and move to Time format setting.



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# Setting Up Your Meter- Setting the Time, Volume and Date

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### 4. Time format 12/24H selection

With the time format blinking, press the Left or Right button to adjust it. Then press the Main button to confirm it and move to hour setting.

### 5. Hour setting

With the hour blinking, press the Left or Right button until the current hour appears. Then press the Main button to confirm it and move to minute setting.

6. Minute setting

With the minute blinking, press the Left or Right button to adjust it. Then press the Main button to confirm it. Meantime, it will shift to next digit for setting. Repeat the above action until the minute setting is completed. Then it will move to volume setting.

7. Volume setting

With the volume blinking, press the Left or Right button to turn it on or off. Then press the Main button to confirm and finish the settings.

# Setting Up Your Meter- Setting the Time, Volume and Date

### 8. Ending setting

After volume settings, for confirmation you will hear a beep (if volume is turned on). All the settings are saved and completed and will return to time screen. (If Volume is turned off, the display will directly return to time screen without a sound of "beep".)



### // NOTE

- When you do not set any of the settings of meter for over 2 minutes, the **Rightest**® GM250S Blood Glucose Meter will leave setting mode and power off automatically.

# **Turning On/Off the Meter**

1. How to turn on the *Rightest***®** GM250S Blood Glucose Meter Press the Main button or insert a test strip.

### 2. Manual Power off

If you want to turn off the *Rightest*® GM250S Blood Glucose Meter, please keep pressing the Main button for 4 seconds.

### 3. Auto Power off

The Rightest® GM250S Blood Glucose Meter will power off automatically if you don't operate it for over 2 minutes.

# Handling the Rightest® GS250S Test Strip

### How to easily handle the Rightest® GS250S Blood Glucose Test Strip?

Inserting the Rightest® GS250S Blood Glucose Test Strip:

 Hold the **Rightest**<sup>®</sup> GS250S Blood Glucose Test Strip between thumb and middle finger with indication symbol " () facing up.

2. Put forefinger on the side of strip as shown.



This is the easiest way to insert the strip.

 Insert the *Rightest*<sup>®</sup> GS250S Blood Glucose Test Strip into test strip port until it snaps and firmly stops.







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# Handling the Rightest<sup>®</sup> GS250S Test Strip

### Removing the *Rightest*® GS250S Blood Glucose Test Strip: 1. Hold the *Rightest*® GS250S Blood Glucose Test Strip the same way as inserting it.

 Rotate the *Rightest*® GS250S Blood Glucose Test Strip counterclockwise and pull up at the same time.

### NOTE

Pulling the strip in a counterclockwise direction will make it easier to remove it from the meter.

Rotat

 Take the *Rightest*® GS250S Blood Glucose Test Strip completely out of test strip port. Please follow the local regulation and discard used strips properly.

Ø NOTE

Test Strip Port will not be contaminated by blood, if you follow the step correctly.

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# **Getting Ready for Testing**

# **Performing a Blood Test**

- Hold the adjustable cap in one hand and hold the hub in the other hand. Bend the cap towards the down side. When a gap appears between the cap and hub, pull them in opposite directions.
- 2. Pull off the depth adjustable cap.
- 3. Insert a new disposable lancet firmly into lancet carrier.
- 4. Twist off and set aside the protective cover of the disposable lancet.
- 5. Replace the depth adjustable cap.

# 6. Choose a de setting dept " IIII " for a 7. Hold the hut cocked. Rel near the hut setting dept " IIII " IIII " for a 7. Hold the hut cocked. Rel near the hut setting dept setti

- Performing a Blood Test
- 6. Choose a depth of penetration by rotating the top portion of the depth adjustable cap until the setting depth matches the window. Settings are based on skin type "acc" for soft or thin skin;
  " acc " for average skin; " account of the top of top of the top of the top of the top of the top of top of the top of t
- 7. Hold the hub in one hand and pull on the plunger in the other hand. The device will be
- cocked. Release the plunger, it will automatically move back to its original position near the hub.
- 8. Wash your hands with warm soapy water and dry thoroughly.
- 9. Take one **Rightest**® GS250S Blood Glucose Test Strip from the vial. Re-cap the vial cap immediately.
- Insert the strip into the strip port of the *Rightest*® GM250S Blood Glucose Meter with the indication symbol facing up. The meter confirms the insertion of the strip with a beep (if volume is turned on).
- The **Rightest**<sup>®</sup> GM250S Blood Glucose Meter will automatically detect the Code number on strip. You don't have to check the Code number on the meter display and strip vial.





# **Performing a Blood Test**

- 11. A blood drop symbol appears and is accompanied by a further beep (if volume is turned on). Now you can apply the blood sample within 2 minutes.
- 12. Place the lancing device against your fingertip and press the release button.
- 13. Touch and hold the drop to the edge of sample entry until you hear a " beep " (if volume is turned on) and the View Window is totally filled with blood. If the View Window is not totally filled with blood or the test does not start, please discard the test strip and repeat the test with a new *Rightest*® GS250S Blood Glucose Test Strip.
- 14. You will see the countdown mode on the screen. After 5 seconds, the test result appears.



# **Performing a Blood Test**

- 15. Pull off the depth adjustable cap. Without touching the used disposable lancet, stick the lancet tip into the protective cover.
- 16. Holding the release button in one hand I (see picture 16, step 1) and pulling on the plunger in the other hand (see picture 16, step 2) will safely eject the used disposable lancet.
- 17. Discard the used disposable lancet into an appropriate puncture-proof or biohazard container.
- 18. Replace the depth adjustable cap after finishing the test.

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- Do not apply your blood drop to the sample entry on the strip until you see the " " appear. The Rightest® GM250S Blood Glucose Meter is performing an internal test and will display " " " and " Error " if you apply blood too soon. Please repeat the test with a new Rightest®
- Blood Glucose GS250S Test Strip. - Record the date when opening a new **Rightest®** GS250S Blood Glucose Test Strip vial for the first time. Discard the vial of test strips after 3 months from opening.



Control Solution Range

Exp. Date

2009-11-11 Lot No

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### **Performing a Test in Order**

### Alternative site testing-palm or forearm blood sampling

- To do the alternative site testing, please install the clear cap for your *Rightest*® Lancing Device.
   (For detailed information of lancing device, please check the instruction manual for the *Rightest*® Lancing Device.)
- To increase the blood flow, please massage the puncture area of palm or forearm for a few seconds.
- Immediately after massaging the puncture area, press and hold the lancing device with the clear cap against palm or forearm.
- Then press the release button.

- Continue holding the lancing device against the palm or forearm and gradually increase pressure for a few seconds until the blood sample size is sufficient.

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# Performing a Test in Order

### ▲ PRECAUTION

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- The glucose test results of blood samples taken from different sites might be varied in certain conditions as your glucose changes rapidly following a drink, a meal, an insulin dose or exercise. In these cases, only the fingertip test should be used.
  - DO NOT test on the palm or forearm if you are testing for hypoglycemia (Low blood glucose).
  - Fingertip samples can show the rapid change of glucose faster than palm or forearm samples.
  - Consult with your healthcare professionals whenever you want to conduct a sample from palm or forearm.
  - As the blood flow taken from forearm is slower than fingertip or palm, we recommend using a special lancing device with Clear Cap for testing sites other than finger.
  - If you use normal lancing device for palm or forearm the blood sample might be not enough for the meter.
  - Please periodically compare the test system to a laboratory test system known to be well maintained and monitored by a healthcare provider.

### **View Window Appearance**

Make sure your blood sample covers the whole area of the View Window to get an accurate test result. Insufficient blood sample might cause inaccurate test result. Repeat the test with a new test strip.



PRECAUTION
- Check the expiration date printed on the package every time you use the strip. Do not use expired Rightest® GS250S Blood Glucose Test Strip.

- Use each Rightest® GS250S Blood Glucose Test Strip immediately after taking it out from the vial.

- Do not reuse Rightest® GS250S Blood Glucose Test Strips.
- Do the test at least 30 minutes after entering another location with different ambient temperature.

# **Understanding Test Results and Messages**

Blood glucose test results are shown on the Rightest® GM250S Blood Glucose Meter as mg/dL.

If your blood glucose result is unusually high or low, or if you question your testing results, repeat the test with a new Rightest® GS250S Blood Glucose Test Strip. You can also run a QUALITY CONTROL TEST with your Rightest® Control Solutions to check your Rightest® GM250S Blood Glucose Meter and GS250S Test Strip (Refer to page 35). If the test result still remains unusually high or low, contact your healthcare professional immediately.

If you are experiencing symptoms that are not consistent with your blood glucose test results and you have made sure to follow all instructions of this manual, contact your healthcare professional immediately.

# **Understanding Test Results and Messages**

### The Rightest® GM250S Blood Glucose Meter displays results between 20 and 600 mg/dL. If your Please use normal or high level Rightest® Control Solutions tested with Rightest® GM250S Blood Glucose Monitoring System under Control Solution Mode. If the test result is within the Control Solution Range printed on the strip vial label, test result is below 20 mg/dL, " [ 0 will appear on the screen. Please repeat your test again with a the Rightest® GM250S Blood Glucose Monitoring System passes the Quality Control Test. That means your Rightest® new strip. GM250S Blood Glucose Monitoring System is working correctly. If you still get " 1 o" result, you should immediately contact your healthcare professional. mg/dL Control Solution Range: Control Solution Range mg/dL 20 13 Example of Control Solution Range Normal: 83-113 If your test result is above the high end of the system's detective range ( 600 mg/dL ), " HI " will High: 237-321 printed on your test strip vial label. appear on the screen. Please repeat your test again with a new strip. If you still get "H, " result, you should immediately contact your healthcare professional. When should a Quality Control Test be performed ? - To ensure that your **Rightest**® GM250S Blood Glucose Meter and Test Strip GS250 are working together properly. - To confirm that you are following the correct procedure. - To prepare for your initial blood glucose test. mg/dL - To check the Rightest® GM250S Blood Glucose Test Strip when you open a new vial of strips. - To check your **Rightest**® GM250S Blood Glucose Meter after it has been dropped, damaged or exposed to liquids. 20.13 - When you suspect that your test results are inaccurate, or if your test results are not consistent with the way you feel.

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**Quality Control Test** 

# **Quality Control Test**

### // NOTE

- If you want to purchase new normal or high level Rightest® Control Solutions, please contact your authorized Bionime representative.

The possible reasons your Control Solution results are out of the range :

- Your Rightest Control Solution has expired or has been opened 3 months ago.
- Your Rightest® GS250S Blood Glucose Test Strip has expired.
- You left the cap of the Rightest® GS250S Blood Glucose Test Strip vial opened or the Rightest® Control Solution off for a long time.
- You didn't perform the test procedure correctly.
   Malfunction of the *Rightest*® GM250S Blood Glucose Meter or GS250S Test Strip.

If Control Solution results are out of range, your Rightest® GM250S Blood Glucose Monitoring System may not be working properly. Repeat the Quality Control Test. If your Control Solution results outside the range still exist, do not use the Blood Glucose Monitoring System to test your blood glucose and contact your Bionime Customer service.

Example of

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Exp. Date 2013-6

A PRECAUTION Each time you open a new bottle of **Rightest**® Control Solution, write the discard Expiration Date: date on the label. Rightest® Control Solution is good for 3 months after opening the bottle, or until the expiration date printed on the label, whichever comes first.

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### **Performing a Quality Control Test**

- 1. Take one *Rightest*® GS250S Blood Glucose Test Strip from vial and re-cap the vial cap immediately.
- 2. Insert the Rightest® GS250S Blood Glucose Test Strip with view window, facing up, into test strip port.
- 3. While the blood drop symbol flashing, press and hold the main button for over 3 seconds until the " CS " symbol appears.
- 4. You will see blinking " 🐌 " symbol and " *CS* " symbol on the screen, prompting you to apply Rightest<sup>®</sup> Control Solution.
- 5. Shake the bottle of *Rightest*® Control Solution well before opening the cap. Then open the bottle and put the cap on the table.
- 6. Drip a drop of *Rightest*® Control Solution on the top of the cap.
- 7. Gently touch sample entry of the strip with the **Rightest**® Control Solution on the top of the cap.
- 8. When you hear a beep (if volume is turned on ) please wait for the test result. The screen will display the countdown number from 5.



### **Performing a Quality Control Test**

- 9. Tightly replace the cap on the Rightest® Control Solution bottle.
- The Control Solution result appears. Compare your Quality Control Test result to the Control Solution Range printed on the *Rightest*® GS250S Blood Glucose Test Strip vial label.



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- Your Control Solution results will not be calculated for an average reading but still can be recalled. The Control Solution Test result will be shown with " CS " symbol on the screen.
- Our suggestion environment for Control Solution Test is 59-104°F(15-40°C).
- Before ">" and "*Cs*" appears, please don't touch the *Rightest*® Control Solution to the sample entry on strip because the *Rightest*® GM250S Blood Glucose Meter is still in an internal check. If you do so, the meter will show ">" and "*Error*". Accompanied by beeps (if volume is turned on).
- Don't drip the Rightest® Control Solution to sample entry of the strip directly.

The reagent on strip might be sucked into the bottle of *Rightest* Control Solution and might cause the degeneration of *Rightest* Control Solution. Doing this might contaminate the meter via the test strip port as well.

- Don't touch the tip of the Rightest® Control Solution bottle. If you have touched it, please clean up with water

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# **Recalling Test Result and Average**

The **Rightest**® GM250 Blood Glucose Meter is able to store 500 test results with time and date automatically. If your meter has stored 500 results, which is the maximum memory of the meter, the newest test result will replace the oldest one. To recall your test memory, start the meter without test strip inserted.

1. Press the Main button to switch from the Time mode to the Memory mode. First you will see the "MEM" symbol on the up per left corner of the display. When you press the right button, the latest result will be displayed. By pressing the right button sequentially former test results will be shown in historical order. You will see the sequence number on the lower right corner and the year on the lower left corner of the display followed by date and time of the measurement.



Note: The Right button is for reviewing the tests with sequence number increasing, and the Left button is for reviewing tests with sequence number decreasing. The sequence no "1" is the latest result while sequence no "500" is the oldest test result.

2. To finish reviewing memory tests, press Main button again, and you will enter the Average screen. By pressing the Right button, the display shows "AVG" on the upper right corner of the display and the average value for the actual day. By sequentially pressing the Right on Left button you will get to the 1-day, 14-day, 30-day and 90-day average of your blood glucose values. You will see the number of the calculated days on the lower left corner and the number of the calculated readings on the lower right corner.

### **Recalling Test Result and Average**



3. Non-Averaging set and canceled:

You may select the unwanted or doubtful test results, to exclude them from the average calculation, after your every test. After you finished your test in the test mode, you can exclude the unwanted result. Keep pressing the Right butten until you see the symbol "NO AVG" in the top right cornetr of the screen. By keeping the Right button pressed and pressing the main button simultaneously to confirm the value as "Non average"

Now this value is flagged by the symbol "NO AVG" in the up per right corner of the screen. If you want to cancel this non-averaging setting, you have to stay in the test mode. First keep pressing the Right button until the "NO AVG" symbol changes to "AVG" in the up per right corner of the screen. To confirm this original status you again simultaneously press the Main button to confirm the "AVG" status. Now the value will be stored as a regular value and included in the average values.

### // NOTE

- The average function is related to the time setting. You must set the time right and have enough time intervals on the basis of current inquiry time, to make sure that the average test results will show. Use the 14-day average for example; if your current inquiry time is 2010/1/30, then that you must check that you have tested blood glucose in the past 14 days before 1/30, including today. If not, the 14day average will show no figure.

- The Non-averaging/re-averaging function only works in the test mode and when you get the value. In the MEM mode, you can not perform this action.

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# **Recalling Test Result and Average**

4. Quick Searching: If you want to see all values automatically displayed in sequence, first enter the memory mode. Then keep pressing the Right or Left button for 2 seconds. (Right button is for searching the tests the latest value to the oldest one; by using the Left button you can scroll from the oldest to the latest one). Anytime you want to stop just release the pressed button. It will stop and display the current displayed value. You can use this way to find a particular reading you want to check.

5. Reading right after test: If you just finish the test, press the Main button to enter the MEM (memory) screen and review the latest test result.

### NOTE

NOTE Your Control Solution results will be automatically non-averaged without selecting, but still can be recalled. The Control Solution Test results will show with "CS" symbol under memory screen.

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- You have to set the time and date to activate the average function.
- The " La", " Hu" results, the Control Solution results and the test result made out of normal temperature range

### **Caring for Your Meter**

### Maintenance

Keep your **Rightest**® GM250S Blood Glucose Meter and GS250S Test Strip free of dust, water or any other liquid. Store the meter in the carrying case when not in use. If meter is dropped or damaged, perform a quality control test with the control solution before doing a blood glucose test.

### **Cleaning Meter**

Clean the outside of the **Rightest**® GM250S Blood Glucose Meter with a damp cloth and mild soap/detergent. Keep the test strip port from getting wet.

### **Cleaning Test Strip Port**

If your Test Strip Port is stained with blood, control solution or any liquid, please use a dry tissue or alcohol swab to clean it up immediately. Do not use any thing wet to clean it. Perform a quality control test to ensure the **Rightest**® GM250S Blood Glucose Meter is working properly.

# **Error Messages and Troubleshooting**

- Er1 The inserted test strip has been used or damaged. Please use a new test strip from vial.
- Er2 Meter has malfunctioned. Do a Quality Control Test or reinstall the batteries to check if the meter works properly.
- Er3 Signal transmission is disrupted, repeat the test.

If error screen still appears contact your local Bionime Customer Service.



# Error Messages and Troubleshooting

### Battery Error

- 1. The " I when the battery power is low. Please change the meter battery as soon as you can. You can still do the test.
- 2. The "I and " Error " symbols are blinking when the battery is too low. Meter can not do the strip test. Please change the meter battery immediately..



# **Error Messages and Troubleshooting**

### Temperature Error

In order to get accurate test result, perform a test between 50~104°F (10~40°C).

- 1. When the ambient temperature is 32~48°F (0~9°C) or 106~122°F (41~50°C) the "== " warning symbol will be blinking (1a), you still can do the test but the test result is only for reference, because the test result under these ranges of temperature might not be correct. In the memory screen this value will be flagged with " == " symbol (1b). Repeat the test at an area with temperature between operating range (50~104°F or 10~40°C).
- 2. When you move from the area with temperature outside the operating range of test strip to another area with temperature inside operating range of test strip, please wait for 30 minutes before you do the test.
- 3. When the temperature is below 32°F (0°C) or over 122°F (50°C), *Rightest*® GM250S Blood Glucose Meter can not do the test and the "*Error*" symbol will blink with thermograph symbol displaying on screen in this condition. Please move the meter to environment with temperature between 50~104°F (10~40°C) and repeat the test after 30 minutes.



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Error

### **Error Messages and Troubleshooting**

### Sampling Error

Please don't apply the blood drop to the sample entry of the strip before the **Rightest**® GM250S Blood Glucose Meter displays " > ". If you do so, the meter will display " *Error* " and " > " accompanied by beeps (if volume is turned on). Please discard the test strip and repeat the test with a new **Rightest**® GS250S Blood Glucose Test Strip.



### Meter Malfunction

- If the *Rightest*® GM250S Blood Glucose Meter can not be started, please follow the steps below:
- 1. Open the battery cover, remove the batteries.
- Wait for 5 minutes and insert the batteries as described "Meter activation and Battery change" on page 16~17.

The **Rightest**® GM250S Blood Glucose Meter should be working normally after finishing above steps. If not, please contact your local Bionime customer service.

- Store the **Rightest**® GS250S Blood Glucose Test Strips in the original capped vial at temperatures between 39°F to 86°F (4°C to 30°C) and relative humidity below 90%. Do not freeze.

- **Rightest** GS250S Blood Glucose Test Strips are designed for use with capillary whole blood samples. Do not use serum or plasma samples.
- Inaccurate test results may be obtained at high altitude more than about 10000 feet ( 3048 meters ) above sea level.
- Hematocrit below 30% may cause higher results, and hematocrit above 60% may cause lower results.
- Severe dehydration and excessive water loss may cause inaccurately low results.
- Rightest® GM250S Blood Glucose Monitoring System has not been validated for use on neonates.
- The glucose test may be interfered under abnormal concentration of
- Uric acid ≥ 10.0 mg/dL, L-Dopa ≥ 3 mg/dL, Dopamine ≥ 2 mg/dL, Ascorbic acid (Vitamin C)≥ 5 mg/dL

### ✓ NOTE

 Acetaminophen, Ibuprofen, Methyldopa, Salicylic Acid, Tetracycline, Tolbutamide, Bilirubin-unconjugated, Cholesterol, Creatinine, Triglyceride, Maltose, Xylose, Galactose and Lactose (when occurring in normal blood or normal therapeutic concentrations) do not significantly affect results. However, abnormally high concentrations in blood may cause inaccurate results. - Sodium Fluoride/Potassium Oxalate at low glucose levels may result in inaccurate blood glucose reading. Sodium Fluoride/Potassium Oxalate should not be used as an anticoagulant with this device.

Limitations

# **Specifications**

Oxidase Electrochemical Sensor
Plasma
Capillary whole blood
1.0 microliters
20-600 mg/dL
5 seconds
500 blood glucose test results with date and time
Turn off automatically 2 minutes after last user action Press the " $\bigcirc$ " button for 4 seconds.
$50 \sim 104^{\circ}$ F ( $10 \sim 40^{\circ}$ C)
10 - 90%

30-60%
1 CR2032 battery
About 1000 tests
98 mm x 45 mm x 16.5 mm
55.0 $\pm$ 5g with battery
LCD display
33.5 mm x 46 mm
$14 \sim 140^{\circ} F$ (-10 $\sim 60^{\circ} C$ )
39 $\sim$ 86°F (4 $\sim$ 30°C),< 90% relative humidity

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Specifications

### Warranty

### **Customer Service**

Bionime Corporation warrants that your *Rightest***®** GM250S Blood Glucose Meter will be free from defects in materials and workmanship for five years from the date of purchase.

This warranty does not apply to the performance of a **Rightest**® GM250S Blood Glucose Meter that has been altered, misused, tampered with or abused in any way.

This warranty applies only to the original purchaser of the Rightest® GM250S Blood Glucose Meter.

Please complete and return the enclosed warranty card to Bionime authorized representative.

Different models have different specifications. Some of the models are not included with the warranty card.

We sincerely like to provide complete and considerate services to our customers. Please review all the instructions to make sure you are performing the steps correctly. If you have any questions or concerns, please contact your Bionime authorized representative or call us by toll free at 1 (888) 481-8485 (Monday through Friday 8:00 AM to 5:00 PM PST). We will make every effort to assist you.

# Expected glucose values without diabetes

# **Critical Component Parts**

Expected glucose values without diabetes  $^{(1)}$ 

Status	Range (mg/dL)
Fasting	70 – 99

### References

1) Diabetes Information - American Association for Clinical Chemistry (AACC) [Electronic Version] Retrieved June 15, 2010 from www.labtestsonline.org/understanding/analytes/glucose/test.html

Rightest® Blood Glucose Meter GM250, Test Strip GS250 and Control Solution Manufacturer : Bionime Corporation

**Rightest® Lancing Device** Manufacturer: Bionime Corporation

Disposable Sterile Lancets Manufacturer : SteriLance Medical (Suzhou) Inc.

Name:		
Address:		
Home Phone:	Work Phone	
Doctor:	Doctor's Phone	
Pharmacy:	Pharmacy Phone	
Insulin/Pills:	Log book date From: To:	
In case of emergency contact:		
54		

	DATE	Μ	Т	W	Т	F	S	S
Breakfast	Blood Glucose							
	Insulin/ Medication							
Lunch	Blood Glucose							
Lanon	Insulin/ Medication							
Dinner	Blood Glucose							
Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
Deutime	Insulin/ Medication							
Other	Blood Glucose							
Othor	Insulin/ Medication							
Comments								

### DATE S Μ Т W Т F S Blood Glucose Breakfast Insulin/ Medicatior Blood Glucose Lunch Insulin/ Medication Blood Glucose Dinner Insulin/ Medication Blood Glucose Bedtime Insulin/ Medication Blood Glucose Other Insulin/ Medication Comments

	DATE	Μ	Т	W	Т	F	S	S
Breakfast	Blood Glucose							
Broandor	Insulin/ Medication							
Lunch	Blood Glucose							
Lunon	Insulin/ Medication							
Dinner	Blood Glucose							
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Bedtime	Blood Glucose							
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01101	Insulin/ Medication							
Comments								

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### DATE S Μ Т W Т F S Blood Glucose Breakfast Insulin/ Medicatior Blood Glucose Lunch Insulin/ Medication Blood Glucose Dinner Insulin/ Medication Blood Glucose Bedtime Insulin/ Medication Blood Glucose Other Insulin/ Medication Comments

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Broarraot	Insulin/ Medication							
Lunch	Blood Glucose							
Editori	Insulin/ Medication							
Dinner	Blood Glucose							
Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
Deutime	Insulin/ Medication							
Other	Blood Glucose							
Other	Insulin/ Medication							
Comments								

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### DATE S Μ Т W Т F S Blood Glucose Breakfast Insulin/ Medicatior Blood Glucose Lunch Insulin/ Medication Blood Glucose Dinner Insulin/ Medication Blood Glucose Bedtime Insulin/ Medication Blood Glucose Other Insulin/ Medication Comments

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Broandor	Insulin/ Medication							
Lunch	Blood Glucose							
Lunon	Insulin/ Medication							
Dinner	Blood Glucose							
Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
Deutime	Insulin/ Medication							
Other	Blood Glucose							
Outor	Insulin/ Medication							
Comments								

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### DATE S Μ Т W Т F S Blood Glucose Breakfast Insulin/ Medicatior Blood Glucose Lunch Insulin/ Medication Blood Glucose Dinner Insulin/ Medication Blood Glucose Bedtime Insulin/ Medication Blood Glucose Other Insulin/ Medication Comments

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Breakfast	Blood Glucose							
Dioditidot	Insulin/ Medication							
Lunch	Blood Glucose							
Lunon	Insulin/ Medication							
Dinner	Blood Glucose							
Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
Deutime	Insulin/ Medication							
Other	Blood Glucose							
Other	Insulin/ Medication							
Comments								

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Other	Blood Glucose							
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Comments								

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Other	Insulin/ Medication							
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Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
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Other	Blood Glucose							
Othor	Insulin/ Medication							
Comments								

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Breakfast	Blood Glucose							
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Dinner	Insulin/ Medication							
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Breakfast	Blood Glucose							
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Lunon	Insulin/ Medication							
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Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
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Comments								

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Breakfast	Blood Glucose							
Broandor	Insulin/ Medication							
Lunch	Blood Glucose							
Lunon	Insulin/ Medication							
Dinner	Blood Glucose							
Dinner	Insulin/ Medication							
Bedtime	Blood Glucose							
Deutime	Insulin/ Medication							
Other	Blood Glucose							
Other	Insulin/ Medication							
Comments								

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# Warranty Card Warranty Card

### Name Tel Distributor name and address PLACE Distributor name and address Address STAMP Serial No Model HERE Date of purchase (Please present this card for replacement purpose) Limited warranty: Limited warranty: (Please present this card for replacement purpose) Bionime corp warrants the original purchaser only, that the **Rightest**<sup>®</sup> GM250S Blood Glucose Meter shall be free of any defects in materials or workmanship and, provided it is not modified, altered or misused, will perform in accordance with specifications for a period of five (5) years from the original date of purchase. Bionime guarantees the performance of the **Rightest**<sup>®</sup> GM250S Blood Glucose Meter only if used as directed and provided that the failure to perform or misperformance of the **Rightest**<sup>®</sup> GM250S Blood Glucose Meter has not been caused in whole or in part by the use of test strips that are not **Rightest**<sup>®</sup> The sole obligation of Bionime under this warranty shall be to replace any defective **Rightest**<sup>®</sup> GM250S Blood Glucose Meter. The sole obligation of Bionime under this warranty shall be to replace any defective **Rightest**<sup>®</sup> GM250S Blood Glucose Meter. No other warranties, express or implied, are made. Bionime shall not be responsible for any incidental or consequential damages. Activation of this warranty shall be conditioned upon completion and return of the warranty registration card to your local authorized Bionime distributor. distributor. X You must contact your local authorized Bionime distributor for assistance and/or instructions for obtaining a replacement Rightest® GM250S Blood Glucose Meter. 76 77

# Warranty Card

# **Emergency Card**

Name Male	e/Female	Date of Birth	
Address			
City		Country	Postal Code
Phone Number			
Healthcare Professional Who Recommended	City		Country
Store/Pharmacy Name Where Purchased	City		Country
Date of Purchase	Model No:		Serial/Lot No.
Have you owned a blood glucose monitoring system before ? Which brand/s were you most recently using ? Will the <b>Rightest</b> ® GM250S Blood Glucose Monitoring System be dow often do you test your blood glucose .2 Times per day	_ per week dication ? Yes Monitoring System?	Yes	No e Monitoring System.

EMERGENCY CARD Rightest® GM250S Blood Glucose Monitoring System	I.
• User Name:	
• User Phone No.:	I am a diabetes patient. If you
• Blood Type:	find me in a coma or stupor, please take me to the hospital
• Doctor/Hospital:	Or call :
Please fill this card and carry with you at all times.	79