

Part no.	311-4235500-XXX
Product name	機器說明書/GlucoRx Cow (DIME)/英
Spec	L297*W420mm/4折/銅版紙100P/雙面/黑
Designer	Tsaiyi
Color	■ K:100 ■ K:20

311-4235500 XXX
Ver. 1.0
11

GlucorX

COW

Ketone Meter
TD-4235E



OPERATION INSTRUCTION

IMPORTANT SAFETY INSTRUCTIONS

Read Before Use

Dear owner of GlucorX Cow Ketone Meter - the system consists of three main products: the meter, test strips and ketone control key. These products have been designed, tested, and proven to work together as a system to produce accurate β -Ketone test results. Only use GlucorX Cow Ketone Test Strips and ketone control key with the GlucorX Cow Ketone Meter.

Intended Use

This system is intended to be used for the quantitative measurement of β -Ketone in fresh whole blood samples. It should not be used for the diagnosis of diabetes. It allows cow's β -Ketone levels to be measured.

This system provides you with plasma equivalent results and are displayed in millimoles of ketone per litre of blood (mmol/L).

[Dealer's Portion]

WARRANTY REGISTRATION CARD



Product Name:

Owner's Name:

Address:

Tel No: (M) (H) (W)

Email:

Date of Birth: Gender: M F

Blood glucose testing frequency:

Insulin dependent?

Date obtained: / / Serial No:

GP Surgery name and Address:

*IMPORTANT: To qualify for the warranty, please fill in this card and mail to us within 6 months from date product obtained.

[Owner's Portion]

YEAR WARRANTY



WARRANTY CERTIFICATE

Product Name:

Owner's Name:

Address:

Tel No: (M) (H) (W)

Email:

Date of Birth: Gender: M F

Blood glucose testing frequency:

Insulin dependent?

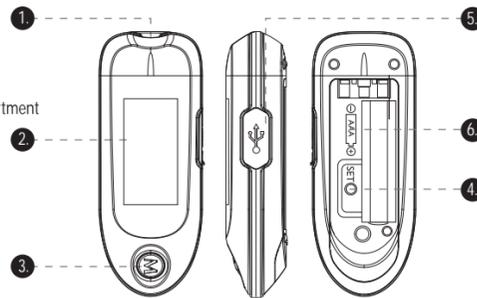
Date obtained: / / Serial No:

GP Surgery name and Address:

*NOTE: Please produce this card for warranty service.

APPEARANCE AND KEY FUNCTIONS OF THE METER

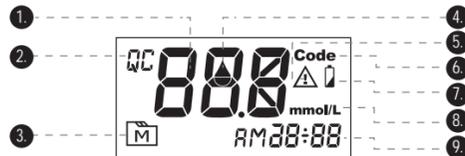
- 1 Test Slot
- 2 Display Screen
- 3 M Button (M)
- 4 SET Button (S)
- 5 Data Port
- 6 Battery Compartment



NOTE

The meter will turn off automatically after 180 seconds without any action, or you can press and hold the **M** button for 3 seconds to turn off the meter.

METER DISPLAY



- 1 Test Result
- 2 *Control Test Mode
- 3 Memory Symbol
- 4 Blood Drop Symbol
- 5 Error Warning
- 6 Code
- 7 Low Battery Symbol
- 8 Measurement Unit
- 9 Date/Time Display

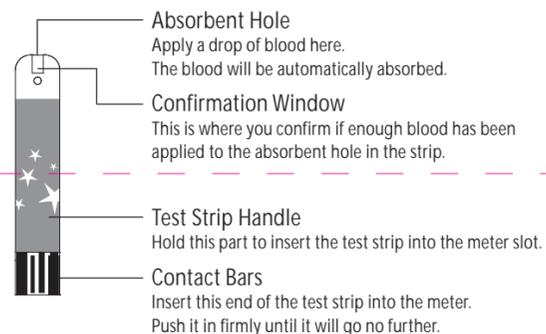
NOTE

* This QC icon will only show in the QC mode.

GlucorX Cow KETONE TEST STRIPS

Your system measures the amount of β -Ketone in Cows' whole blood. Blood is applied to the absorbent hole on the test strip and is automatically drawn into the reaction cell where the reaction takes place.

The test strip consists of the following parts:

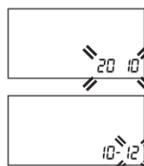


SETTING THE METER AND DELETING THE MEMORY

Start with the meter off (no test strip inserted). Press **S**.

STEP 1. Set the date

With the year flashing, press **M** until the correct year appears. Press **S**.



With the month flashing, press **M** until the correct month appears. Press **S**.

With the day flashing, press **M** until the correct day appears. Press **S**.

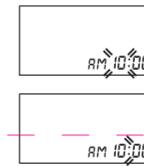
STEP 2. Setting the time format.

Press **M** to select the desired time format -- 12h or 24h. Press **S**.



STEP 3. Setting the time

With the hour flashing, press **M** until the correct hour appears. Press **S**.
With the minute flashing, press **M** until the correct minute appears. Press **S**.



STEP 4. Setting the buzzer

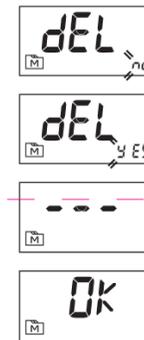
With the buzzer setting, press **M** to switch between "On" and "OFF". Press **S**.



STEP 5. Deleting the memory

With "dEL" and "M" on the display, press **M** and select "no" to keep the results in memory then press **S** to skip.

To delete all the results, press **M** and select "yes" to delete all the memory records.



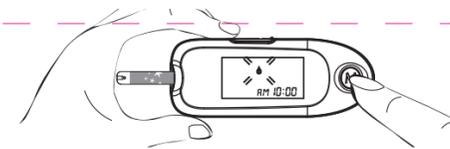
THE TWO MEASURING MODES

The meter provides you with two modes for measuring: General and QC.

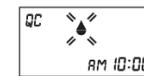
MODES	USE WHEN
General (not displayed)	any time of day, regardless of time since last meal
QC	testing with the ketone control key

You can switch between each mode by:

1. Start with the meter switched off. Insert a test strip to turn on the meter. The screen will display code no. and then a flashing "▲".



2. Press **M** to switch to QC mode.



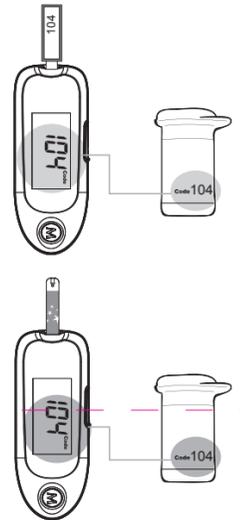
BEFORE TESTING

Calibration

You must calibrate the meter every time you begin to use a new vial of ketone test strips by setting the meter with the correct code. Test results may be inaccurate if the code number displayed on the meter does not match the number printed on the strip vial.

How to Code Your Meter

1. Insert the ketone code strip when the meter is off. Wait until the code number appears on the display.
Note: Make sure the code number on the display, code strip, and ketone test strip vial are all the same.
2. Remove the code strip; the display will show "OK". This tells you that the meter has finished coding and is ready for β -Ketone testing.



Checking the Code Number

You need to make sure that the code number displayed on the meter matches the number on your ketone test strip vial before you proceed. If the codes do not match, please stop testing and repeat the calibration procedure. If the problem persists, contact GlucorX Customer care for help.

NOTICE: The code number in this manual is an example only; it may not be the actual code for your meter.

WARNING

It is important to make sure that the LCD displayed code is the same as the code on your ketone test strip vial before testing. Failure to do so will get inaccurate results.

CHECKING THE SYSTEM WITH KETONE CONTROL KEY

HOW TO PERFORM A KETONE CONTROL TEST

STEP1. Insert Ketone Control Key

Insert the ketone control key into your meter. The meter displays the following in sequence: code number and a flash "▲".



When the "▲" symbol appears on the display, press **M** and "QC" will appear on the display. When the "QC" sign is displayed, the meter will store your test result in the memory under QC. If you decide not to perform a control test, press **M** again and the "QC" sign will disappear.

CAUTION

Every time you perform a ketone control test, you must enter "QC" test mode so that the test result will NOT mix with the ketone TEST RESULTS stored in your meter memory.

STEP 2. Turn on the switch on the front side of the ketone control key.

STEP 3. Read and compare the result

After counting down to 0, the control test result will appear on the display. Compare this result with the range printed on your test strip vial and it should fall within this range. If not, please read the instructions again and repeat the control test. With the ketone control test, make sure you turn off the switch on the front side of the ketone control key after removing it from your meter.

NOTE

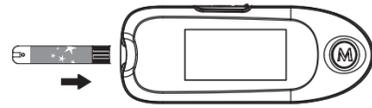
The control test range printed on your ketone test strip vial is for control testing use only. It is not a recommended range for your cows' ketone levels.

TESTING THE BLOOD SAMPLE

Prepare Your Syringe for Blood Testing

STEP 1. Insert the test strip to turn on your meter

Wait for the meter to display code no. and then a flashing "▲":

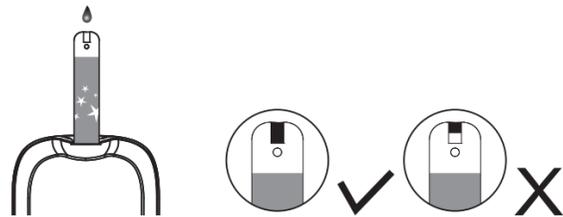


STEP 2. Select the appropriate measuring mode by pressing M

For selecting the measurement mode, please refer to the "TWO MEASURING MODES"

STEP 3. Apply blood sample

Draw blood sample from the cow's root-tail. Obtain blood drop volume of at least 0.7 µL.



Gently apply a drop of blood to the absorbent hole of the ketone test strip at a tilted angle. The confirmation window should be completely filled if enough blood sample has been applied. Do **NOT** remove the cow's root-tail until you hear a beep sound.

If the confirmation window is not filled completely before your meter begins to count down, do not add more blood to the test strip. Discard the test strip and start again. If you have trouble filling the test strip, please contact your veterinarian or GlucoRx Customer care for assistance.

NOTE

If you do not apply a blood sample to the test strip within 3 minutes, the meter will automatically turn off. You must remove and reinsert the test strip to start a new test.

STEP 4. Get result

The result of your cow's β-Ketone test will be stored in the meter memory automatically.



Warning:

1. Please do not change your treatment on cows based on the ketone result without first consulting your veterinarian.
2. Turn the meter off by removing the ketone test strip. Discard the used test strip and syringe carefully according to your local regulations.

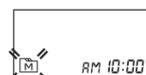
VIEWING THE METER MEMORY

Viewing Results

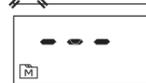
Your Meter stores the 450 most recent β-Ketone test results with date and time in its memory. You can review the test results with these easy steps.

STEP 1. Enter the memory mode

With the meter turned off, press **M** twice. The first test result will appear, indicating that you are in the memory mode.



When using the meter for the first time or if the results have been deleted, "---" will appear, indicating that there are no test results in the memory.



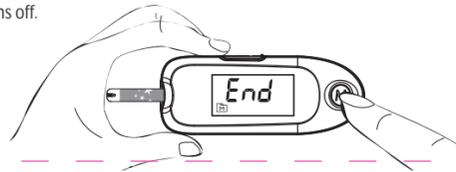
STEP 2. Recall test results

If you continue to press **M**, you can then review the last 450 results in the memory.



STEP 3. Exit the memory mode

After displaying the last test result in memory, press the **M** again. The meter displays "End" and then turns off.



NOTE

- If you wish to exit memory mode before the last result is displayed, press the **M** button for 3 seconds.
- When the memory is full, the oldest test result will be replaced by the newest test result.
- The results of the ketone control test and β-Ketone test results will be stored in the memory.

DOWNLOADING RESULTS ONTO A COMPUTER

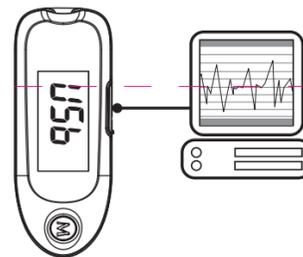
You can use your meter with a USB cable and the GlucoRx **Healthcare** Software System to view test results on your personal computer. To learn more about this Software System or to obtain a USB cable separately, please contact GlucoRx Customer care for assistance.

1. Obtaining the required cable and installing the software

To download the **Healthcare** Software System, please visit www.glucoRx.co.uk.

2. Connecting to a personal computer

Connect the cable to a USB port on your computer. With the meter switched off, connect the other end of the USB cable to the meter data port. "USB" will appear on your meter display, indicating that the meter is in communication mode.



3. Data transmission

To transmit data, follow the instructions **provided with the software**. Results will be transmitted with the date and time. Remove the cable and your meter will automatically switch off.

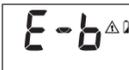
Warning:

While the meter is connecting to your PC, it is unable to perform a β-Ketone test.

BATTERY

Your meter comes with one 1.5V AAA size alkaline battery. If the low battery symbol "▲" appears on the screen, this indicates that the power is low and it is time to change the battery.

The "▲" appears with E-b, Error: The power is not enough to do a test. Please change the battery immediately.



Replacing the Battery

To replace the battery, make sure that your meter is turned off.

1. Press the edge of the battery cover and lift it up to remove.
2. Remove the old battery and replace with one 1.5V AAA size alkaline battery.
3. Close the battery cover. If the battery is inserted correctly, you will hear a "beep" afterwards.

NOTE

- Replacing the battery does not affect the test results stored in memory.
- As with all batteries, this battery should be kept away from children. If swallowed, promptly seek medical assistance.
- Batteries may leak chemicals if unused for a long time. Remove the battery if you are not going to use the meter for an extended period (i.e., 3 months or more).
- Properly dispose of the battery according to your local environmental regulations.

MAINTENANCE

Caring for Your Meter

Cleaning

1. To clean the meter exterior, wipe it with a cloth moistened with tap water or a mild cleaning agent, then dry with a soft dry cloth. Do NOT rinse with water.
2. Do NOT use organic solvents to clean the meter.

Meter Storage

- Storage conditions: -20°C to 60°C (-4°F to 140°F), below 95% relative humidity.
- Always store or transport the meter in its original storage case.
- Avoid dropping and heavy impact.
- Avoid direct sunlight and high humidity.

Meter Disposal

The used meter should be treated as contaminated that may carry a risk of infection during measurement. The battery in this used meter should be removed and the meter disposed in accordance with local regulations.

The meter falls outside the scope of the European Directive 2002/96/EC Directive on waste electrical and electronic equipment (WEEE).

DISPLAY MESSAGES AND PROBLEM-SOLVING GUIDE

The following is a summary of display messages. If your meter displays an error message, please follow the actions described in the table below. If the problem persists, please contact GlucoRx Customer care for help.

MESSAGE	WHAT IT MEANS
Lo	< 0.1 mmol/L
06	0.1 to 8.0 mmol/L
Hi	> 8.0 mmol/L

MESSAGE	WHAT IT MEANS	ACTION
E-b ▲	Appears when the battery is too low.	Replace the battery immediately.
E-U ▲	Appears when a used ketone test strip is inserted.	Repeat with a new test strip.
E-t ▲	Appears when ambient temperature is above or below system operation range.	System operation range is 5°C to 40°C (41°F to 104°F). Repeat the test after the meter and test strip are in the above temperature range.
E-C ▲	Appears when the wrong ketone code strip is inserted or other coding errors.	Make sure to insert the correct code strip. If the problem persists, please contact GlucoRx Customer care for help.
E-D ▲		Repeat the test with a new test strip. If the meter still does not work, please contact GlucoRx Customer care for assistance.
E-R ▲	Problem with the meter.	
E-E ▲		
E-F ▲	Appears when ketone test strip is removed while counting down.	Review the instructions and repeat test with a new strip. If the problem persists, please contact GlucoRx Customer care for help.

SYMBOL INFORMATION

Symbol	Referent	Symbol	Referent
	Consult instructions for use		Manufacturer
	Temperature limitation	SN	Serial number
	Use by	LOT	Batch code
	Caution, consult accompanying documents		Collection for electrical and electronic equipment
	Humidity limitation	CE	CE mark

SPECIFICATIONS

Model No.: TD-4235E

Dimensions & Weight: 93 (L) x 36 (W) x 21.3 (H) mm, 45.4 g (including battery)

Power Source: One 1.5V AAA alkaline battery

Display: LCD

Memory: 450 measurement results with respective date and time

External output: USB

Auto electrode insertion detection

Auto reaction time count-down

Auto switch-off after 3 minutes without action

Temperature Warning

Operating Condition: 5°C to 40°C (41°F to 104°F), below 85% R.H. (non-condensing)

Meter Storage/Transportation Conditions: -20°C to 60°C (-4°F to 140°F), below 95% R.H.

Strip Storage/Transportation Conditions: 2°C to 30°C (35.6°F to 86°F), below 85% R.H.

Measurement Unit: mmol/L fixed

Measurement Range: 0.1 mmol/L to 8.0 mmol/L

Expected Service Life: 5 years

This device has been tested to meet the electrical and safety requirements of: IEC/EN 61010-1, IEC/EN 61010-2-101, EN 61326-1, IEC/EN 61326-2-6.

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GlucoRx Ltd
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GU21 5EN
United Kingdom

TERMS & CONDITIONS OF WARRANTY



1. GlucoRx warrants this product to be free of defects in workmanship and materials within the said warranty period on the Warranty Certificate.
2. During the warranty period if this product is found to be defective, you may send it with the Warranty Certificate to our office for warranty service. GlucoRx will then repair or replace defective parts, or exchange the whole product as GlucoRx may choose, with no additional charge to the original owner. After such repair, replacement or exchange, the product will be warranted for the remaining time of the warranty period.
3. This warranty is valid only if the Warranty Certificate and Warranty Registration Card are duly completed with date of obtaining product, serial number and if the Warranty Registration Card is sent to our office (or you register on our website www.glucoRx.co.uk) no later than 6 months from the date obtained.
4. This warranty is void if this product has been repaired or serviced by an unauthorised person. This warranty does not cover defects caused by misuse, abuse, accident, tampering, lack of reasonable care, fire or any other acts beyond human control.
5. Except as stated in the above paragraphs, GlucoRx disclaim all other warranties, including those of merchantability of fitness for a particular purpose with respect to the use of this product. GlucoRx shall not be liable for any direct, consequential or incidental damages arising out of the use or inability to use this product.