GB

Codefree

3 IN 1 BLOOD GLUCOSE MONITOR

step by step



german lengineering





Contents

1 Getting to know your instrument	4
1.1 Delivery scope, replacements and accessories	
1.2 Functions of the device	6
1.3 Signs and symbols	7
2 Warnings and safety notes	8
3 Description of units and accessories	
0.4 Bland always marker	11
3.1 Blood glucose monitor	1
3.3 USB cover	
3.4 Display symbols	
3.5 Test strips	
•	
4 Initial use and basic settings	
4.1 Charging the rechargeable battery	14
4.2 Making and changing basic settings	
5 Taking measurements	19
5.1 Preparing to take a blood sample	19
5.2 Preparing the lancing device for taking a sample	
5.3 Taking a blood sample and measuring the glucose level	
5.4 Reading the result and labelling measurements	
5.5. Post-processing and disposal	
5.6 Evaluating measured blood glucose values	
3	
6 Measurement memory	29
6.1 Displaying individual values	30
6.2 Displaying average blood glucose values	
6.3 Evaluating measured values on a PC	30
7 Storing, maintaining and disinfecting the device	31
7.1 Maintenance	32
7.2 Disinfection	32
8 What if there are problems?	32
9 Technical specifications	34
10 Comparison of measured values with laboratory value	35
11 Usage limits for specialist personnel from the healthcare sector \dots	37
12 Guarantee and customer service	39

1 GETTING TO KNOW YOUR INSTRUMENT

Dear customer.

Thank you for choosing one of our products. Our name stands for high-quality, thoroughly tested products for applications in the areas of heat, weight, blood pressure, blood glucose measurement, body temperature, pulse, gentle therapy, massage and air.

Please read these instructions for use carefully and keep them for later use, be sure to make them accessible to other users and observe the information they contain.

With kind regards,

Your Beurer team.

Getting to know your instrument

The GL50 evo blood glucose monitor is intended for fast and simple blood glucose measurement of fresh capillary blood samples, either for self-testing or in a clinical environment by trained personnel. It enables you to measure your blood glucose quickly and easily, store the measured values and display the average of all measured values, thereby providing optimum assistance for monitoring your diabetes. The test is performed exclusively externally (IVD).

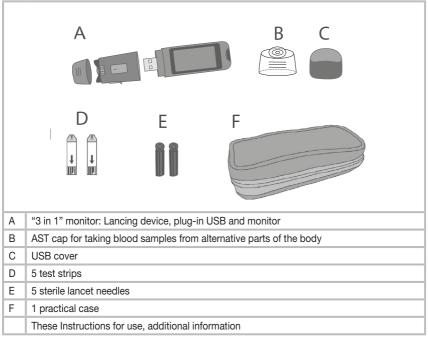
The backlit display shows measured values clearly. The user-friendly design that features handy test strips and is operated via a single scroll wheel guarantees simple yet reliable measurements.

The device can be connected directly to a PC using the integrated USB connection. You can evaluate the measured values on your PC using special software (in English and German) and use the results to monitor your blood glucose values.

Alternatively, you can transfer the measured values to your smartphone/tablet using the optional Bluetooth® adapter.

1.1 Delivery scope, replacements and accessories

Check that the set packaging has not been tampered with and make sure that all contents are present. Before use, ensure that there is no visible damage to the device or accessories and that all packaging material has been removed. If you have any doubts, do not use the device and contact your retailer or the specified Customer Services address.



 The blood glucose monitor (A), test strips (D) and additionally available control solutions have been specially designed to complement each other. For this reason, use only test strips (D) and control solutions that have been approved for this blood glucose monitor (A).



• Use original manufacturer accessories only.

Follow-up purchases

You can also obtain test strips, control solution and lancet needles without a prescription.

Item	REF
50 test strips	REF 464.15
Control solution LEVEL 3 and 4	REF 464.16
100 lancet needles	REF 457.01

1.2 Functions of the device

This device is intended for measuring the blood glucose content in human blood. It is also suitable for self-testing at home.

The blood glucose monitor enables you to guickly and simply:

- Measure your blood glucose level
- Display, label and save measured values
- The result beep can feedback the measurement value as beep signals
- Display the average measured blood glucose value from the last 7, 14, 30 and 90 days
- Display the average of the labelled measured blood glucose values from the last 7, 14, 30 and 90 days
- Set timer and alarm
- · Set the time and date
- Evaluate the saved measured values on a PC using special software.
- The saved measured values can be transferred to a smartphone/tablet using the optional Bluetooth® adapter.
- Transfer the saved measured values to a smartphone/tablet using the optional NFC adapter.

The blood glucose monitor also includes the following monitoring functions:

- Blood volume check
- Warning in the event of unsuitable temperatures
- Ketone warning
- State of charge display when rechargeable battery is low.



Warning

- Do not use the device to diagnose diabetes; it is intended for regular monitoring only.
- Consult your GP with regard to insulin doses.

1.3 Signs and symbols

The symbols on the packaging, type plate of the blood glucose monitor and accessories represent the following:

IVD	In vitro diagnostics		Manufacturer
SN	Serial number	Ti	Please observe the Instructions
2°C 30°C	Temperature limit +2°C to +30°C		for use PCT: certification symbol for
2	Not for re-use/For single use only	PG	products that are exported to the Russian Federation and mem- bers of the CIS
Ω	Use by		Green dot (Der Grüne Punkt):
3 M	Maximum shelf life after initial opening in months	0	German dual waste collection system
LOT	Batch designation	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Contents sufficient for <n> tests</n>
STERILE R	Sterilised by radiation (lancets)	REF /	Order number
\triangle	Warning, see accompanying documents	mmol/L	Unit of measurement for blood glucose value
- 1+ RECHARGEABLE	Rechargeable battery	8	Biohazard, risk of infection

In the Instructions for use, the symbols represent the following:



Warning

Warning instruction indicating a risk of injury or damage to your health/your patient's health.



Important

Safety note indicating possible damage to the unit/accessory.



Note

Note on important information

2 WARNINGS AND SAFETY NOTES

Risk of infection

All components of the blood glucose monitor and its accessories may come into contact with human blood and are therefore a possible source of infections.





Warning

- This blood glucose monitor must display the blood glucose content in mmol/L. The unit of
 measurement mmol/L accompanies each blood glucose value. Please contact Customer Services if the device does not display mmol/L. You risk damaging your health if you measure your
 blood glucose value using a unit of measurement with which you are not familiar, misinterpret
 the values and therefore take incorrect measures.
- When using the blood glucose monitor for various persons, observe the generally applicable regulations regarding disinfection, safety and contamination.
- Medical carers and others who use this system on several patients must be aware that all products
 or objects that come into contact with human blood must be handled, even after cleaning, as though
 they could transfer pathogens.
- The lancing device is suitable for self-testing. Do not share the lancing device or lancet needles with others or amongst various patients (risk of infection!).
- Use a new, sterile lancet needle for each blood sample (for single use only).

General notes



Warning

Do not use the device in the vicinity of strong electromagnetic fields and keep it away from radio systems or mobile telephones.

Measuring the blood glucose content



8

Warning

- The measurements taken by you are for your information only they are no substitute for a medical examination! Consult your GP regularly regarding your measured values. Do not alter the procedures prescribed by your GP.
- The Beurer GL50 evo monitor provides a simple way of monitoring your own blood glucose levels, however, you may need to obtain information on how to use the system from your healthcare professional (for example, your GP, chemist or diabetes consultant). Only proper use will guarantee precise measurements.
- A lack of water, high fluid loss, for example perspiration, frequent passing of water, severe hypotension (low blood pressure), shock or hyperosmolar hyperglycaemic non-ketotic coma (HHNKC) may lead to incorrect measured results.

- An excessively high or low hematocrit value (proportion of red blood cells) may lead to incorrect
 measurements. In the event of a very high hematocrit value (above 60%), the displayed blood glucose value may be too low; in the event of a very low hematocrit value (below 20%), it may be too
 high. Consult your GP if you do not know your hematocrit value.
- Do not use the test strips to measure blood glucose values on newborns.
- Do not use NaF or potassium oxalate anticoagulants to prepare for venous blood samples.
- Do not test any severely ill patients using this device.
- Use fresh capillary whole blood only. Do not use serum or plasma.
- Use capillary blood without squeezing the penetration area. If the area is squeezed, the blood is diluted with tissue fluid and this may lead to an incorrect result.
- Do not use the test strips above an altitude of 7010 m.
- Very high levels of humidity may influence the test results. Relative humidity of more than 90% may lead to inexact results.



Note

The Beurer GL50 evo mmol/L measuring system is intended for measuring capillary and venous whole blood.

Storage and maintenance



Warning

- Store the measuring device and its accessories out of the reach of small children and pets. Small
 parts, such as lancet needles, cover caps or test strips may be life-threatening when swallowed.
- The test strip box contains desiccant, which may irritate the skin or eyes when inhaled or swallowed.
 Keep the box out of the reach of children.

The blood glucose monitor is made from precision and electronic components. The accuracy of the measurements and service life of the device depend on its careful handling:

- Protect the device and its accessories from impacts, humidity, dirt, marked temperature fluctuations
 and direct sunlight. Do not store the device, test strips and control solution in your vehicle, in the
 bathroom or in a cooling appliance.
- Do not drop the device.

Repairs



) Note

- Do not open the device. Failure to comply will result in voiding of the warranty.
- Do not repair the device. Proper operation can no longer be guaranteed in this case.
- Please contact Customer Services for repairs.

Disposal



Warning

- It is essential to comply with the generally applicable safety precautions for handling blood when disposing of materials from the blood glucose monitor. Dispose of all blood samples and materials with which you or your patients come into contact correctly in order to prevent injury and infection of other persons.
- After use, dispose of test strips and lancets in a puncture-proof container.



Note

Rechargeable batteries must not be disposed of with household waste. As a consumer, you are required by law to recycle used rechargeable batteries. You can recycle your old rechargeable batteries at public collection points in your community or wherever rechargeable batteries of the relevant type are sold.

For environmental reasons, do not dispose of the device in the household waste at the end of its useful life. Please dispose of the unit in accordance with EC Directive WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the local authorities responsible for waste disposal.



Notes on handling rechargeable batteries

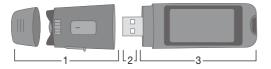
- If your skin or eyes come into contact with fluid from the rechargeable battery cell, flush out the affected areas with water and seek medical assistance.
- · Choking hazard! Small children may swallow and choke on rechargeable batteries. Store the rechargeable batteries out of the reach of small children.
- If a rechargeable battery has leaked, put on protective gloves and clean the battery compartment with a dry cloth.
- Risk of explosion! Never throw rechargeable batteries into a fire.
- Do not disassemble, split or crush the rechargeable batteries.
- Only use chargers specified in the instructions for use.
- Rechargeable batteries must be charged correctly prior to use. The instructions from the manufacturer and the specifications in these instructions for use regarding correct charging must be observed at all times.

Disposing of the batteries/rechargeable batteries

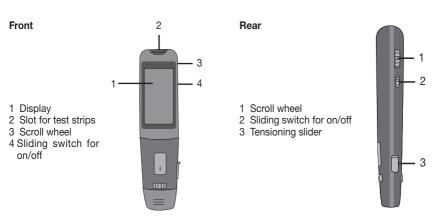
• The empty, completely flat batteries/rechargeable batteries must be disposed of through specially designated collection boxes, recycling points or electronics retailers. You are legally required to dispose of the batteries/rechargeable batteries.

3 DESCRIPTION OF UNITS AND ACCESSORIES

3.1 Blood glucose monitor An overview of the monitor

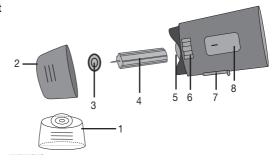


- 1 Lancing device2 Plug-in USB
- 3 Monitor



3.2 Lancing device and lancet needles

- 1 AST cap (transparent)
- 2 Cap
- 3 Protective lancet disc
- 4 Sterile lancet needle
- 5 Lancet holder
- 6 Dial for setting different penetration depths
- 7 Tensioning slider
- 8 Trigger



3.3 USB cover



If you would like to use the blood glucose monitor without the integrated lancing device, you can use the supplied USB cover in place of the lancing device.

3.4 Display symbols



- 1 Battery status
- 2 Storage place
- 3 Blood glucose unit mmol/L
- 4 Measurement Time
- 5 Symbols for labelling measurements
- 6 Measurement Date
- 7 Measured value display

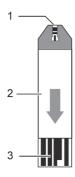
(i) Note

The blood glucose monitor is supplied with the following basic settings:

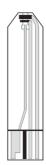
- Blood glucose unit: mmol/L
- Acoustic signal on
- Bluetooth® off
- · Ketone warning on
- · Language: German

3.5 Test strips

Front



Rear



- 1 Gap for blood input
- 2 Handle
- 3 Contacts

Insert the test strip into the device so that the contacts are pointing inside the slot.

Make sure that the front of the test strip is facing you.

You can identify the rear by the contact tracks.





Note

Read carefully the following information on handling and storing your test strips. The test strips will only provide accurate measured results if all notes are followed.



Warning

Use each test strip only once and for one patient only!

Handling test strips



Note

- Securely close the test strip box immediately after taking out a test strip.
- Do not use the test strips if they have expired. The expiry date is located next to the egg timer symbol on the box or on the respective film packaging of the individual test strips. □.

- The test strips expire three months after the box is opened. Note down the expiry date (date of opening plus three months ๑) on the label. The shelf life is limited to the expiry date (see date next to the egg timer symbol □). This does not apply for individual test strips, which are to be used immediately after opening.
- Discontinue use of the test strips if one of the two expiry dates has passed (□/√∞).
- You can touch any part of the test strip with clean, dry hands.
- Use the test strip for measurement immediately after removing it from the box/film packaging.
- Do not bend, cut or otherwise modify the test strips.
- Do not use test strips that have come into contact with fluids.

Storing test strips



- Keep the test strips in a cool, dry place above +2°C and below +30°C. Do not expose the test strips to direct sunlight or heat. Do not store in your vehicle, in the bathroom or in a cooling appliance.
- Permitted relative air humidity below 90%.
- The test strips must be stored in the original box/unopened film packaging never use other containers.

4 INITIAL USE AND BASIC SETTINGS

To activate the device, set the sliding switch for on/off to setting "(on)".



The sliding switch for on/off serves as a key lock for the scroll wheel.

4.1 Charging the rechargeable battery



- Before putting the blood glucose monitor into operation for the first time, you must fully charge the rechargeable battery. To charge the rechargeable battery, proceed as follows:
 - 1 Remove the lancing device from the blood glucose monitor. Connect the blood glucose monitor to a computer via the USB port.
 - 2 Leave the blood glucose monitor to charge for 2 hours.
 - Once you have fully charged the rechargeable battery of the blood glucose monitor, disconnect the blood glucose monitor from the computer.
 - 4 Place the lancing device back on the blood glucose monitor.
 Allow 30 minutes before performing a blood glucose test right after charching the rechargeable battery.

4.2 Making and changing basic settings

1 Setting the date and time



You must set the date and time. Otherwise, you will not be able to save your measured values correctly with a date and time and access them again later.

The time can be displayed in 12-hour format or 24-hour format.

- Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel.
- Rotate the scroll wheel until the arrow is pointing towards "date/time", then press the scroll wheel.
- 4. Set the year by rotating the scroll wheel, then press the scroll wheel.
- days 21 24h/12h mode 24h 5. Use the same procedure to set the month, day, 24 h or 12 h
- To save the settings, rotate the scroll wheel until the arrow is pointing towards "save" and confirm by pressing the scroll wheel.



2015

10 21

all values

averagesettingsback

timer

alarmdate/timebluetooth on/off

vear

month

2 Setting the timer

mode, hour and minute.

You can set a timer on the blood glucose monitor. An acoustic signal sounds when the timer elapses. To set a timer, proceed as follows:

- 1. Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel to confirm.



3. Rotate the scroll wheel until the arrow is pointing towards "timer", then press the scroll wheel.



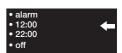
- Press the scroll wheel. Rotate the scroll wheel until the hour is marked, then press the scroll wheel. Now set your desired timer hour by rotating the scroll wheel and press the scroll wheel to confirm.
- timer start stop

- 5. Use the same procedure to set the timer minute.
- 6. In order to start the timer, rotate the scroll wheel to "start" and press the scroll wheel.

3 Setting the alarm

You can set an alarm on the blood glucose monitor. An acoustic signal sounds to the set alarm time. You can set 4 different alarm times. To set an alarm, proceed as follows:

- Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel to confirm.
- all valuesaveragesettingsback
- 3. Rotate the scroll wheel until the arrow is pointing towards "alarm", then press the scroll wheel.
- timeralarmdate/timebluetooth on/off
- Choose one of the four alarm times with the scroll wheel, then press the scroll wheel.
- Now set your desired alarm hour by rotating the scroll wheel and press the scroll wheel to confirm. Use the same procedure to set the alarm minute.
- In order to start the alarm, rotate the scroll wheel to "on" and press the scroll wheel.
- In order to turn off the alarm, rotate the scroll wheel to "off" and press the scroll wheel.





4 Switch Bluetooth® or NFC on/off

You can switch on Bluetooth®/NFC on the blood glucose monitor.

 Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel. 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel.



Rotate the scroll wheel until the arrow is pointing towards "bluetooth on/off" or "NFC on/off", then press the scroll wheel.



4. Rotate the scroll wheel until the arrow is pointing towards "bluetooth on" or "NFC on/off", then press the scroll wheel. Bluetooth® is now switched on. Proceed analogously to switch on NFC.



5 Switching the acoustic signal on/off

On the blood glucose monitor, you can switch on the acoustic signal, switch off the acoustic signal or set a result beep.

1. Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.



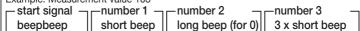
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel.
- bluetooth on/off
 NFC on/off
 beep on/off
 ketone on/off
- 3. Rotate the scroll wheel until the arrow is pointing towards "beep on/off", then press the scroll wheel.



 Use the scroll wheel to select your desired setting (beep on, beep off or result beep) and confirm by pressing the scroll wheel.



The result beep will feedback the measurement value as beep signals. Example: Measurement value 103



The beep signals will be repeated 2 times and can be interrupted by rotating the scroll wheel.

Switching the ketone warning on/off

On the blood glucose monitor, you can switch a ketone warning on and off.

- 1. Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel.
- 3. Rotate the scroll wheel until the arrow is pointing towards "ketone on/off", then press the scroll wheel.
- 4. Use the scroll wheel to select your desired setting (warning on or warning off) and confirm by pressing the scroll wheel.

- all values average settinas back
- NFC on/off beep on/off
- ketone on/off

 warning on warning off back

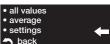
ketone

turn display

Rotating the display

You can rotate the display on the blood glucose monitor.

- 1. Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel.
- 3. Rotate the scroll wheel until the arrow is pointing towards "turn display", then press the scroll wheel.

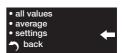


- beep on/off ketone on/off
- turn display
- language

8 Selecting the menu language

The following menu languages are available: German, English, French, Italian, Spanish and Turkish.

- 1. Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2. Rotate the scroll wheel until the arrow is pointing towards "settings", then press the scroll wheel.



3. Rotate the scroll wheel until the arrow is pointing towards "language", then press the scroll wheel.



4. Use the scroll wheel to select your desired menu language and confirm by pressing the scroll wheel.



TAKING MEASUREMENTS



Warning

- If the protective disc on a lancet needle has already been removed, do not use the lancet needle.
- If you drop the lancing device with an inserted lancet needle, carefully pick it up and dispose of the lancet.



Important

- Use the lancing device only with lancet needles from the same manufacturer. Using other lancet needles may prevent the lancing device from working properly.
- If you are using a third-party lancing device, please read the accompanying Instructions for use.

5.1 Preparing to take a blood sample

Choose a part of the body from which to take a blood sample

The lancing device is intended for taking blood samples from the fingertip or other body parts such as the palm of the hand, forearm or upper arm. We recommend taking blood samples from the fingertip. To make the procedure as painless as possible, do not take samples directly from the centre of the fingertip, but slightly to either side.



Warning

- In the event of suspected hypoglycaemia: take blood from the fingertip only. Reason: changes to blood glucose levels can be detected quickly in blood samples taken from the finaertip.
- Blood samples from the fingertip and samples taken from another body part (AST) may produce completely different results. It is essential to seek medical advice before taking measurements from other body parts.

2 Prepare all parts

Prepare the following items: GL50 evo blood glucose monitor (A), test strip box or test strips in film packaging (D) and sterile lancet needles (E). You will also need the AST cap for measurements on other parts of the body (B).

Make sure that the sliding switch for on/off is in the "on" position (



3 Wash your hands

Wash your hands with soap and warm water before taking a blood sample. This not only ensures optimal hygiene but also encourages good blood circulation at the puncture area on the finger. Dry your hands carefully. Also ensure that the puncture area is hygienically clean when taking blood samples from other body parts (AST).



If you have used alcohol for cleaning, ensure that the area has fully dried prior to measuring.

5.2 Preparing the lancing device for taking a sample

Remove cap

Securely hold the monitor with one hand on the lancing device cover. With your other hand, remove the cap from the lancing device.



Insert lancet needle

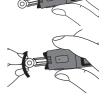
Insert a sterile lancet needle into the lancing device.

Push firmly on the lancet until it audibly engages and it cannot be pushed further into the holder.



3 Remove the protective lancet disc

Remove the protective lancet disc by turning clockwise. Retain the protective disc for the safe disposal of the used lancet needle after taking a blood sample.



4 Select cap and attach.

You need to use a different cap depending on the area from which you take the sample:

- Fingertip: Cap (black)
- Other body parts: AST cap (transparent)



Do not use the AST cap to take blood samples from the finger.

Place the selected cap on the lancing device. Make sure that the curved part of the cap fits on the curved part of the lancing device. Press firmly on the cap until it audibly engages.

5 Select the penetration depth

You can set seven different penetration depths on the lancing device using the dial with raised bars. The length of the bar represents the required penetration depth.

- 1 to 2: soft or thin skin
- 3 to 5: normal skin
- 6 to 7: thick or callous skin

Turn the dial until the required bar is in the centre of the black marking.

6 Tension the lancing device

Pull the slider in the direction of the arrow (to the right in the image) until it stops and then release. The slider automatically springs back into position. The lancing device is now tensioned.





5.3 Taking a blood sample and measuring the glucose level



Warning

- Change the puncture area each time you take a measurement, e.g. use a different finger or the other hand. Repeatedly using the same area may cause inflammation or scarring.
- If the cap is not in place, there is a risk of injury from the exposed lancet.
- Do not squeeze your finger to obtain a larger drop of blood. If squeezed, the blood is diluted with tissue fluid and this may lead to an incorrect result.
- Please note that insufficient blood circulation at the puncture area, e.g. caused by cold temperatures
 or illness, can lead to incorrect results.



Important

Do not apply any blood samples or control solutions to the test strip before inserting it in the monitor.

Prepare the test strip

Take a test strip from the box/film packaging and immediately close it again. Use the test strip within three minutes of removal.

2 Insert test strip

Take the monitor in your left hand. Hold the blood glucose monitor so that the display is facing you and the Beurer logo is on the right-hand side.

Insert the test strip into the slot on the rear end of the blood glucose monitor with the contacts first. Make sure that the front of the test strip is facing you. You can touch any part of the test strip with clean, dry hands.



3 The device switches on automatically

After you have inserted the test strip, the blood glucose monitor switches on automatically and the Beurer logo, the date and the time are briefly displayed.

The blood glucose monitor is ready to measure as soon as the test strip animation is displayed.





Warning

If segments of the display are missing, stop using the device and immediately contact customer services.

4 Lancing to take a blood sample

The lancing device can now be used to take a blood sample. Make sure that the blood remains as a droplet and is not spread.

- Blood sample from the fingertip

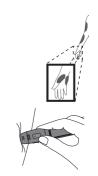
Firmly position the lancing device slightly to the side of the centre of the fingertip. Press the trigger. Remove the lancing device from the finger. A round drop of blood of at least 0.6 microlitres (corresponds to approx. 1.4 mm, original size:

) must have formed.

- Blood sample from other body parts (AST)

Find a soft area away from any bones, without any visible blood vessels and with as little hair as possible. Warm the penetration area to enhance circulation by gently massaging the area. Press and hold the lancing device against the penetration area for a few seconds and then press the trigger. Continue to hold the lancing device against the skin until a round drop of blood has formed under the cap. Maintain the pressure until the drop of blood reaches a size of at least 0.6 microlitres (corresponds to approx. 1.4 mm, original size: •). Carefully remove the lancing device from the skin.





Beurer GL50 evo mmol/L



Only take blood from other areas of the body at the following times:

- On an empty stomach (more than two hours after most recent meal).
- · At least two hours after administration of insulin.
- · At least two hours after physical activity.

Please also note the following:

- If the blood glucose test results do not match how you feel, carry out another test using blood from your fingertip.
- DO NOT change your treatment purely on the basis of a measurement that was carried out using blood taken from an alternative area. Carry out another test with blood from your fingertip in order to confirm the test result.
- If you often fail to notice that you have a low blood glucose level, carry out a test using blood from your fingertip.

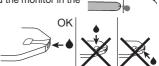
5 If necessary, repeat the process

If you do not obtain sufficient blood, repeat the lancing process with a greater penetration depth in a different area.

6 Apply blood to the test strip

Turn the monitor by 180°. Hold the blood input gap (at the tip of the test strip) to the drops of blood until the gap is completely filled and the monitor in the display starts counting backwards.

Do not press the penetration area (fingertip or other body parts) to the test strip. The blood must not be spread. The blood is sucked into the gap.





Note

Error message "Error2" appears on the display if the gap was not correctly and sufficiently filled with blood. Repeat the measurement using a new test strip and a greater penetration depth.



Note

- Do not apply blood to the sides of the test strips
- Do not add blood later if the device does not start measurement. Remove the test strip and end
 this test. Use a new test strip.
- If the test strip has already been inserted into the device but no blood is added to the test strip within two minutes, the device switches itself off. Briefly remove the test strip and reinsert it so that the device automatically switches itself back on.
- Contact Customer Services if you are unable to cover the test strip in blood correctly.

5.4 Reading the result and labelling measurements Read the result

As soon as the blood input gap is filled with sufficient blood, the device performs the blood glucose measurement. The blood glucose monitor counts down for approx. five seconds. The measured result is then shown on the display.



Read your measured value. Check again that you have read the result correctly. The underline must be below the measured value, otherwise you need to turn the monitor by 180°. For explanations of and measures regarding the measured values, see "5.6 Evaluating measured blood glucose values" on page 25. If an error message is displayed, read chapter "8. What if there are problems?" on page 32.

Label measured value

You have the following options for labelling measured values.

0	No marking
ď	Before a meal
Ť	After a meal
*	General label (e.g. after exercising)

Labelling measured values enables you, your GP or diabetes consultant to better monitor your blood glucose values. For example, you can display the average values of all measurements taken before a meal.

To label a measurement, proceed as follows:

- 1 Following the measurement, the display will briefly show the measured value and then the menu in which you can mark the measured value. It is not possible to mark the measured value afterwards.
- 2 Select the desired marking using the scroll wheel.
 - O No marking
 - Before a meal
 - * After a meal
 - # General label

Confirm the marking by pressing the scroll wheel.

3 The selected marking is now allocated to the measured value and saved to the memory.

5.5. Post-processing and disposal

1 Remove test strip

Remove the test strip from the device and carefully dispose of it in accordance with the applicable regulations to avoid infecting others.

2 Remove cap

Carefully remove the cap from the lancing device.



3 Stick protective disc on needle

Place the retained protective disc flat on a hard surface. Stick the tip of the needle into the protective disc (image 1) so the needle is covered (image 2).



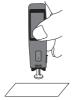


Image 1

Image 2

4. Remove and dispose of lancet needle

Press the trigger again so that you can grip the shaft. Carefully remove the lancet needle from the lancing device and dispose of the lancet in a puncture-proof container.

Carefully dispose of all blood samples and materials that you have come into contact with. This prevents injuries and the infection of others.



5 Replace cap

Place the cap back on the device. Turn the clip back over the cap.



5.6 Evaluating measured blood glucose values

Your blood glucose monitor can process values between 1.1 and 35.0 mmol/L. A warning is displayed for measured results below 1.1 mmol/L and for measured results above 35.0 mmol/L.



- If you suspect that the blood glucose results are incorrect, first repeat the test and, if applicable, perform a functional test using control solution. Seek medical advice if dubious results persist.
- Seek medical attention immediately if your symptoms do not correspond to your measured blood glucose values and you have followed all instructions for the Beurer GL50 evo blood glucose monitor.
- Do not ignore symptoms of too high/low blood glucose levels. Always seek medical attention!Blood glucose

The following table provides a classification of blood glucose values according to the diabetes guidelines of the German Diabetes Association (Deutsche Diabetes Gesellschaft – DDG).

Time of blood glucose measurement	Normal blood glucose values	Suspicion of diabetes	Diabetes
On an empty stomach (Plasma, venous)	Below 5.6 mmol/L	5.6 – 6.9 mmol/L	≥ 6.9 mmol/L
Two hours after a meal	Below 7.8 mmol/L	7.8 – 11.1 mmol/L	≥ 11.1 mmol/L

Source: German Diabetes Association (Deutsche Diabetes Gesellschaft - DDG) 2013

Critical blood glucose values

Display	Blood glucose	Actions
Very low glucose level (< 1,1 mmol/L)	Very low blood glucose level Below 1.1 mmol/L	Seek medical attention immediately.
(v i, i iiiiiocs E)	Below 1.1 mmo/L	
3,6 mmolil	Low blood glucose level	Have a suitable snack. Follow your GP's instructions.
7 111111111111	Below 3.9 mmol/L	
	High blood glucose level	If this high value persists two hours after your last meal, this may indi-
8,3 mmolil	On empty stomach, over 5.6 mmol/L Two hours after a meal, over 7.8 mmol/L	cate hyperglycaemia. Seek medi- cal attention to coordinate any measures, if applicable.
1 5 ,7 mmoll	High blood glucose level, possibly ketones Above 13.3 mmol/L	Perform a ketone test. For this purpose, seek medical attention.
		- 1
Very high glucose level (> 35,0 mmol/L)	Very high blood glucose level Above 35.0 mmol/L	Take another measurement using a new test strip. If the display is the same as before: seek medical attention immediately.

5.7 Functional check using control solution

The control solution is used to test the entire blood glucose monitoring system. This helps to determine whether the monitor and the test strips are working optimally together and whether the test is being performed correctly.

Perform the control solution test if you suspect that the blood glucose monitor and/or the test strips could be faulty or if you have repeatedly measured unusual blood glucose values. Also test the blood glucose monitor if it has been dropped or is damaged. The control solution is available separately. Please observe the additional notes in the instructions for using the control solution for the test.



Important

- Do not use third-party control solution. Correct functioning of your monitor can only be tested using Beurer LEVEL3 + LEVEL4 control solutions.
- Control solution measurements: When using the device, specialist personnel must follow statutory guidelines.
- Do not apply any blood samples or control solutions to the test strip before inserting it in the monitor.

Performing a functional test using control solution



Warning

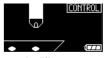
To obtain correct results, the monitor, test strip and control solution must be the same temperature. For the "Functional test using control solution", the temperature is to be between 20 °C and 26 °C.

Insert test strip

Hold the blood glucose monitor so that the display is facing you. Insert a test strip into the slot on the blood glucose monitor with the contacts first. Make sure that the front of the test strip is facing you (see 3.5 "Test strips" on page 13).

2 Activate control mode

Once you have inserted the test strip, the blood glucose monitor switches on automatically and briefly shows the initial display. After the initial display has disappeared, rotate the scroll wheel until "CONTROL" appears at the top of the animation display.



IMPORTANT: Control solutions and blood react to temperature influences in different ways. It is therefore of vital importance that control solution measurement is always performed in control solution mode. If this mode is not used, results may be obtained that are outside the target range.

3 Drip control solution on surface

Choose a clean surface to carry out the functional test correctly. Shake the control solution well before use. Undo the cap and press two drops next to each other on the clean surface without touching them. Use the second drop for the measurement.





Note

Never apply the control solution straight from the bottle to a test strip. Reason: The remaining solution in the bottle will be contaminated if the top of the bottle comes into contact with the test strip.

4 Apply drop to the test strip

Hold the input gap (at the tip of the test strip) to the drop of control solution until the gap is completely filled. When the gap is sufficiently filled with solution, the device performs a measurement. The device counts down for approx. five seconds. The measured result is then shown on the display.

5 Evaluate result of functional test

Check whether the result is within the specified range of results for the control solution. This range of results is printed on the test strip box or the test strip packaging.

Expected results

At room temperature, the measured values from the test using the control solution should be within the range printed on the test strip box in approx. 95% of all tests.



Warning

The result range printed on the test strip box applies only to the control solution. **This is not a recommended value for your blood glucose level.**

If measured values are outside the specified range, check the following possible causes:

Cause	Action
The first drop of control solution was not disposed of. The tip of the bottle was not cleaned correctly. The bottle was not shaken well enough.	Rectify the cause and repeat the test.
Control solution or test strip is contaminated.	Repeat the test using a new bottle of control solution and/or new test strip.

Cause	Action
The control solution, test strip or blood glucose monitor is too warm or too cold.	Bring the control solution, test strips and blood glucose monitor to room temperature (+20°C to +26°C) and repeat the test.
The test strips and control solution were kept at a temperature and humidity outside the specified range.	Repeat the test using new, correctly stored accessories (test strips and control solution).
Damaged test strips. Possible causes include Test strips were exposed to fresh air for too long. Test strip box was not closed completely.	Repeat the test using a new test strip and/or a new box of correctly stored test strips.
Test strip or control solution has expired.	Repeat the test using a new bottle of control solution and/or new test strip from a new box.
Functional test using control solution was performed incorrectly.	Repeat the test and follow the instructions.
Problem with the blood glucose monitor	Contact Customer Services.



Warning

If you repeatedly obtain measured values outside the specified range when using control solution, discontinue using the system to measure your blood glucose level. Contact Customer Services.

6 MEASUREMENT MEMORY

For each measurement, your blood glucose value is automatically saved with the date and time unless "CONTROL" was activated for a blood glucose measurement using control solution.

The memory can store a maximum of 480 measured values. If the memory is full, the oldest value is replaced by the most recent value. You can call up every individual measured blood glucose value. You can also calculate and display the average value for the last 7, 14, 30 and 90 days.



Note

- If you have already saved measured values and you reset the date, the average values are calculated as from the new period.
- "No saved values" indicates an empty memory for measured values. Press the scroll wheel button to switch off the device.

6.1 Displaying individual values

The most recent measured value is displayed first, and the oldest last. The date and time are also displayed on the monitor at the same time.

- 1 Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- 2 Rotate the scroll wheel until the arrow is pointing towards "All values", then press the scroll wheel to confirm.





- 3 You can now rotate the scroll wheel to navigate between the saved individual values.
- 4 You can cancel the process at any time. To do so long, press the scroll wheel or wait until the device switches itself off automatically after two minutes.

6.2 Displaying average blood glucose values

You can display the average measured blood glucose value from the last 7, 14, 30 and 90 days.

- 1 Switch on the blood glucose monitor by briefly pressing and holding the scroll wheel.
- Rotate the scroll wheel until the arrow is pointing towards "Average value", then press the scroll wheel to confirm.
- 3 Use the scroll wheel to select the desired marking (0, *), *) or *) for which you want to display the average values.



Press the scroll wheel to display the respective quantity of measured values in the markings.



6.3 Evaluating measured values on a PC

4

The GL50 evo monitor features an integrated plug-in USB stick. The blood glucose evaluation software GlucoMemory is installed on the USB stick (for position of the USB connection, see page 11). The GL50 evo is compatible with Diabass and SiDiary.

The blood glucose evaluation software GlucoMemory is pre-installed on the monitor's USB stick. You do not need to install the software locally on a PC. This software enables you to evaluate your measured values, add insulin doses and print or export your results as a PDF or CSV file. The software helps you and your GP to better monitor your blood glucose level.

For more information, please read software manual for the GlucoMemory software. Including all the necessary information and a detailed description of how to use the software (in English and German).



Note

- An effective evaluation is only possible if you have set the date and time correctly (see "Setting the date and time" on page 15).
- Measurements cannot be taken while the USB stick is connected to a PC.
- The measurements remain saved on the blood glucose monitor when the USB stick is removed from the PC.
- It is not possible to save software entries on the USB stick; Values are read only.

Evaluating measured values on the PC

- The blood glucose monitor must be switched off. Insert the monitor's USB connector into a free USB port on your PC. In the event that the measuring device is not recognised, please try using another active USB point.
- 2 "USB connected" is shown on the display of the blood glucose monitor. Saved data can now be viewed on your PC.



3 See the information on evaluating values in the software manual.

Alternatively, you can transfer the measured values to your smartphone tablet using the optional Bluetooth® adapter. You can download the Beurer HealthManager App and Software free of charge. For further, information please consult the instructions for use of the Bluetooth® adapter.

7 STORING, MAINTAINING AND DISINFECTING THE DEVICE

Storing

Keep the Beurer GL50 evo blood glucose monitor in the case supplied after each measurement and do not expose it to direct sunlight.



Note

- Do not store the device, test strips and control solution in your vehicle, in the bathroom or in a cooling appliance.
- Retain these Instructions for use.
- Only clean the device when it is switched off.
- The device needs to be at the location at wich the measurement is taken for at least 30 minutes before use. Please note the operating range of +10 °C to +40 °C.

7.1 Maintenance

Clean the surface of the device using a soft, slightly damp cloth (water or a mild cleaning solution). Dry the device using a lint-free cloth.

Make sure that moisture does not enter the test strip insertion slot. Do not spray cleaning agent directly on the device. Do not submerge the device in water or any other fluids and make sure that no fluids can enter the device.

7.2 Disinfection

Please comply with the generally applicable guidelines on disinfection when using the device on different persons. Do not submerge the device in disinfection solutions or any other fluids and make sure that no fluids can enter the device.

The cap on the integrated lancing device can be disinfected with 70–75% alcohol. Disinfect the cap at least once a week and submerge the cap in alcohol for approx. 10 minutes. Allow the cap to air dry.



Note

The blood glucose monitor is made of precision components. The accuracy of the measurements and service life of the device depend on its careful handling:

- · Protect the device from impacts and do not drop it.
- Protect the device from damaging factors such as moisture, dirt, dust, blood, control solution or water, marked temperature fluctuations, direct sunlight and extreme cold.
- Do not use the device in the vicinity of strong electromagnetic fields, radio systems or mobile telephones.

8 WHAT IF THERE ARE PROBLEMS?

Display messages on batteries and blood glucose measurement

No.	Cause	Solution
Empty battery	Batteries discharged.	Charge the blood glucose monitor via the USB interface.
High temperature	Temperature of the measuring environment, blood glucose monitor or test strip above the permitted range.	Repeat the test using a new test strip as soon as the measuring environment, blood glucose monitor and test strips have reached room temperature (+20°C to +26°C).
Low temperature	Low temperature Temperature of the measuring environment, blood glucose monitor or test strip below the permitted range.	Repeat the test using a new test strip as soon as the measuring environment, blood glucose monitor and test strips have reached room temperature (+20°C to +26°C).

No.	Cause	Solution
Strip error	Used or contaminated test strip inserted.	Insert unused test strip that has not expired. Repeat the blood glucose measurement.
Error 1	System error	Contact our customer service.
Error 2	Insufficient amount of blood on the test strip.	Repeat the measurement using a new test strip.
Error 5	System error	Contact our customer service.
	Unknown error messages.	Remove batteries, reinsert batteries. Contact Customer Services if the problem persists.

Problem: device does not switch on

Cause	Solution
The sliding switch is in the "off" position	To activate the device set the sliding switch to setting "on"
Battery empty.	Charge the blood glucose monitor via the USB port on a computer.
Test strip inserted incorrectly or not completely.	Firmly insert the test strip into the slot on the device with the contacts first. Make sure that the front of the test strip is facing you (see "Test strip" on page 13).
Device faulty.	Contact Customer Services.

Problem: the test does not start after inserting the test strip into the device and applying blood.

Cause	Solution
Insufficient blood or test strip not filled correctly.	Repeat test using a new test strip and a larger drop of blood.
Faulty test strip.	Repeat the test using a new test strip.
Blood was applied while the device was switched off.	Repeat the test using a new test strip and only apply blood when finger is shown on display.
The basic settings of the device have been changed and these changes were not completed (see "4.2 Making and changing basic settings" on page 15).	Remove the test strip and press the "scroll wheel" button until the device is switched off.

Cause	Solution
Device faulty.	Contact Customer Services.

9 TECHNICAL SPECIFICATI	ON3
Dimensions (L x W x H)	123 x 29 x 16 mm
Weight	36 g
Power supply	Lithium-ion rechargeable battery, 160 mAh
Battery life	150 measurements with fully-charged rechargeable battery
Measured value memory	480 measured values with date/time Data retained when batteries are changed
Average values	for 7, 14, 30, 90 days
Automatic switch-off	Two minutes after last actuation
Storage/ transport temperature	Temperature: +2°C - +30°C Relative humidity: < 90%
Operating ranges	Temperature: +10°C - +40°C Relative humidity: < 90% non-condensing
Measuring range, glucose	Glucose: 1.1-35.0 mmol/L
Blood sample	capillary whole blood, venous whole blood
Required volume of blood	0.6 microlitres
Blood glucose measuring duration	Approx. 5 seconds
Calibration	Plasma
Test procedure	Amperometric bio sensor
Usage	Suitable for self-testing

EMC

This device complies with the European standard EN 61326 and is subject to specific precautions with regard to electromagnetic compatibility. Please note that portable and mobile HF communication systems may interfere with this unit. For more details, please contact Customer Services at the address indicated.

Each time device is switched on

Test strip functionality

System function test

Test strips enable a quantitative measurement of the glucose level in fresh whole blood. When the gap for taking blood comes into contact with a drop of blood, it is automatically filled by simple capillary action. The blood is sucked into the absorbing gap on the test strip and the blood glucose monitor measures the blood glucose level in the blood.

The test is based on the measurement of an electric current that is generated by the chemical reaction of the glucose with the enzyme glucose dehydrogenase (Aspergillus oryzae) on the strip.

During the reaction, a mediator transports electrons through the electrode surface and so generates a current.

The blood glucose monitor analyses this current. The current flow is proportional to the glucose content in the blood sample. The results are shown on the blood glucose monitor display.

Only a small amount of blood is required (0.6 microlitres) and measurement takes approx. five seconds. The test strip detects blood glucose values from 1.1 to 35.0 mmol/L.

Chemical components of the test strip sensor

FAD glucose dehydrogenase
Potassium ferricyanide
Non-reactive components
38%

Control solution functionality

The control solution contains a fixed amount of glucose that reacts with the test strip. A test with control solution is similar to a blood test. However, control solution is used instead of blood. The measured result using control solution must be within the result range. This range is printed on each test strip box.

Chemical composition of the control solution

The control solution is a red solution with the following D-glucose level (in percentage shares):

Ingredients Control solution LEVEL 3 Control solution LEVEL 4

D-glucose 0.14% 0.37% Non-reactive components 99.86% 99.63%

Standards

The Beurer GL50 evo blood glucose monitor complies with the European standards: IVD (98/79/EC) and MDD (93/42/EC).

10 COMPARISON OF MEASURED VALUES WITH LABORATORY VALUE

Precision

Three lots of the GL50 evo blood glucose test strips have been tested to assess the precision of the GL50 evo blood glucose measuring system. This includes a repeat assessment using venous blood and a laboratory precision assessment using the control material. The blood glucose content of the venous blood samples ranges from 2.4 to 23.2 mmol/L and control material from three concentrations is used.

Results of the repeat precision measurements

Sample	Venous blood (mmol/L)	Grand mean value (mmol/L)	Pooled standard de- viation	Pooled coefficient of variation (%)
1	2.4	2.0	2.0	5.6
2	3.4	3.3	3.5	5.9
3	6.7	7.1	4.1	3.2

Sample	Venous blood (mmol/L)	Grand mean value (mmol/L)	Pooled standard de- viation	Pooled coefficient of variation (%)
4	11.2	11.9	6.7	3.1
5	17.6	18.3	10.1	3.1
6	23.2	24.1	14.5	3.3

Results of the intermediate precision measurement

Sample	Control material (mmol/L)		Pooled standard deviation	Pooled coefficient of variation (%)
1	3.9	4.0	1.0	1.4
2	7.5	7.6	1.4	1.1
3	19.5	19.5	2.8	0.8

System accuracy

The GL50 evo blood glucose monitor in comparison with the YSI.

Three lots of GL50 evo blood glucose test strips have been tested to assess the system accuracy of the GL50 evo blood glucose measuring system and to compare it with the reference method in which capillary whole blood concentrations of 1.9 to 24.6 mmol/L have been used.

Result of the system accuracy for glucose concentrations <100 mg/dL (<5.55 mmol/L)

Within ±5 mg/dL (Within ±0.28 mmol/L)	3	Within ±15 mg/dL (Within ±0.83 mmol/L)
55/180 (30.6 %)	111/180 (61.7 %)	175/180 (97.2 %)

Results of the system accuracy for glucose concentrations ≥100 mg/dL (≥5.55 mmol/L)

Within ±5%	Within ±10%	Within ±15%
220/438 (50.2 %)	357/438 (81.5 %)	422/438 (96.3 %)

Results of the system accuracy for combined glucose concentrations between 34.4 mg/dL (1.9 mmol/L) and 442.8 mg/dL (24.6 mmol/L).

```
Within ±15 mg/dL or ±15%
(Within ±0.83 mmol/L or ±15%)
597/618 (96.6 %)
```

In comparison to the YSI, the GL50 evo met the EN ISO 15197:2013 standard, whereby 95% of the blood glucose values measured have to fall within the following zones: either ± 0.83 mmol/L (± 15 mg/dL) of the measured average value when using the reference measuring procedure for blood glucose concentrations <100 mg/dL (<5.55 mmol/L) or $\pm 15\%$ for blood glucose concentrations of ≥ 100 mg/

dL (≥5.55 mmol/L). 99% of the individual measured blood glucose values must fall within zones A and B of the Consensus Error Grid (CEG) for diabetes type 1.

Performance evaluation by the user

A study to assess the glucose values of blood samples of capillary blood from the fingertips, which were obtained from 103 individuals that had no special training, produced the following results: 96.7% within ± 15 mg/dL (± 0.83 mmol/L) and 95.9% within $\pm 15\%$ of the values obtained in the medical laboratory with glucose concentrations of at least 100 mg/dL (5.55 mmol/L).

You will find further details and information regarding blood glucose results and various technologies in generally relevant specialist medical literature.

11 USAGE LIMITS FOR SPECIALIST PERSONNEL FROM THE HEALTHCARE SECTOR

- If the patient shows the following symptoms, it may be the case that no correct values can be displayed:
 - Acute dehydration
 - Acute hypotension (low blood pressure)
 - Shock
 - Hyperosmolar hyperglycaemic condition (with or without ketosis)
- Lipaemic samples: cholesterol levels up to 500 mmol/L and triglycerid levels up to 1000 mmol/L do
 not influence the results. Severely lipaemic blood samples were not tested with the Beurer GL50
 evo blood glucose monitor; therefore, using the device with these samples is not recommended.
- 3. In the case of severely ill patients, blood glucose monitors for home use should not be used.
- 4. The influence of interfering substances on the measurements depends on the concentration in the blood. The maximum concentrations of certain substances listed below do not significantly influence the measurements.

Influe Concentration of tested substance		Blood glucose value	50-100 mg/dL (2.8-5.6 mmol/L)	250-350 mg/dL (13.9-19.4 mmol/L)
Acetaminophen	7 mg/dL	(0.46 mmol/L)	8.1 mg/dL (0,45 mmol/L)	5.3%
Ascorbic acid	4 mg/dL	(0.26 mmol/L)	6.6 mg/dL (0,37 mmol/L)	5.8%
Bilirubin	1.2 mg/dL	(0.02 mmol/L)	0.2 mg/dL (0,01 mmol/L)	5.2%
Cholesterol	500 mg/dL	(12.9 mmol/L)	9.6 mg/dL (0,53 mmol/L)	7.2%

Influe	ence	Blood glucose value	50-100 mg/dL (2.8-5.6 mmol/L)	250-350 mg/dL (13.9-19.4 mmol/L)
of tested substance	es			
Creatinine	30 mg/dL	(2.7 mmol/L)	1.3 mg/dL (0,07 mmol/L)	1.6%
Dopamine	2.2 mg/dL	(0.14 mmol/L)	8.0 mg/dL (0,44 mmol/L)	3.2%
Galactose	20 mg/dL	(1.11 mmol/L)	6.2 mg/dL (0,34 mmol/L)	2.5%
Gentisic acid	7 mg/dL	(0.45 mmol/L)	9.8 mg/dL (0,54 mmol/L)	3.6%
Glutathione	1 mg/dL	(0.03 mmol/L)	3.7 mg/dL (0,21 mmol/L)	6.5%
Haemoglobin	300 mg/dL	(0.05 mmol/L)	3.8 mg/dL (0,21 mmol/L)	5.2%
Ibuprofen	50 mg/dL	(2.43 mmol/L)	3.9 mg/dL (0,22 mmol/L)	2.7%
Icodextrin	5 mg/dL	(0.003 mmol/L)	3.6 mg/dL (0,20 mmol/L)	1.4%
L-dopa	2 mg/dL	(0.10 mmol/L)	10.0 mg/dL (0,56 mmol/L)	8.7%
Maltose	20 mg/dL	(0.56 mmol/L)	6.5 mg/dL (0,36 mmol/L)	4.2%
Methyldopa	4 mg/dL	(0.19 mmol/L)	9.0 mg/dL (0,50 mmol/L)	3.7%
Pralidoxime iodide	5 mg/dL	(0.14 mmol/L)	2.8 mg/dL (0,16 mmol/L)	3.3%
Sodium salicylate	40 mg/dL	(2.5 mmol/L)	4.3 mg/dL (0,24 mmol/L)	2.2%
Tolbutamide	100 mg/dL	(3.70 mmol/L)	1.4 mg/dL (0,08 mmol/L)	2.3%
Tolazamide	2.5 mg/dL	(0.08 mmol/L)	2.5 mg/dL (0,14 mmol/L)	3.6%

Influe Concentration of tested substance		Blood glucose value	50-100 mg/dL (2.8-5.6 mmol/L)	250-350 mg/dL (13.9-19.4 mmol/L)
Triglyceride	1000 mg/dL	(11.3 mmol/L)	4.0 mg/dL (0,22 mmol/L)	7.4%
Uric acid	20 mg/dL	(1.2 mmol/L)	7.2 mg/dL (0,40 mmol/L)	4.0%
Xylose	9.5 mg/dL	(0.63 mmol/L)	7.0 mg/dL (0,39 mmol/L)	7.5%

12 GUARANTEE AND CUSTOMER SERVICE

Warranty

We offer a 3-year product warranty against material and production faults.

The warranty does not cover:

- Damage due to improper operation
- Wearing parts
- The rechargeable battery
- Deficiencies already known to the customer upon purchase
- · Cases of personal negligence on the part of the customer
- Outside interference

The warranty does not affect the customer's statutory rights. To assert a warranty claim within the warranty period, the customer must provide proof of purchase. The warranty claim must be submitted within a period of 3 years from the date of purchase to BEURER GmbH, Söflinger Straße 218, D-89077 Ulm (Germany). In the event of a warranty claim, the customer reserves the right to have the goods repaired at our own workshop or at a workshop authorised by us. No further rights are granted to the customer (on the basis of the warranty).

Customer service address

Please contact our customer service if you have any questions: Please refer to the address list enclosed for our customer service address.

OUR COMMITMENT TO YOU: We aim to satisfy you by providing high-quality medical products and the best customer service. Please contact our customer service if you are not entirely satisfied with the product.



		GL50_mmol/L_1214_GB Subject to errors and changes
		GL50_mmol/L_1214_GB S