

β-Ketone Test Strips

Use only with GIMACARE Multi-Functional Monitoring System.

Warnings

► For in vitro diagnostic use (outside of the body) only.

- ► For single use only.
- ► Healthcare professionals and other users testing multiple patients with this system should handle everything that comes into contact with human blood carefully to prevent transmitting infectious diseases, including sanitized objects.
- Please read this manual and your GIMACARE Multi-Functional Monitoring System Owner's Manual before you begin. Only use GIMACARE β-Ketone Test Strips with GIMACARE Multi-Functional Monitoring System to obtain accurate results, and be
- covered by the manufacturer's warranty.

 Results may be inaccurate when testing on patients with abnormally low blood
- pressure, or those who are in shock.

 For patients with impaired peripheral circulation, collection of capillary blood from the ror patients with imparted peripheral circulation, collection of capiliary blood from the approved sample sites is not advised as the results may not be a true reflection of the physiological β-Ketone level. It may apply under the following circumstances: severe dehydration as a result of diabetic ketoacidosi or due to stress hyperglycaemia, hyperosmolar non-ketotic coma, shock, decompensated heart failure NYHA Class IV or peripheral arterial
- occlusive disease. ► Keep test strips and lancets away from young children. If swallowed, consult a doctor immediately for advice.

 Intended Use

GIMACARE β-Ketone Test Strip is intended for the quantitative measurement of β-Ketone in venous whole blood and fresh capillary whole blood from finger. They are indicated for use at home or in clinical settings as an aid to monitor the effectiveness of diabetes control. Professionals may use test strips to test capillary and venous blood sample; home use is limited

to capillary whole blood testing. Limitations

- Use only heparin for anticoagulation of fresh capillary or venous whole blood.
- Hematocrit: The hematocrit level is limited to between 10% and 70%. Please ask your healthcare professional if you do not know your hematocrit level.
- Ineaturate professional in you do not know your nematocrin evel.

 In vitro ascrobic acid up to 228 µmoll, captopril up to 23 µmoll, cholesterol up to 15 µmoll, dopamine up to 5.8 µmoll, gentisic acid up to 117 µmoll, t-DOPA up to 10 mg/L, paracetamol up to 1324 µmoll, triglycerides up to 30 mmoll, uris acid up to 3 mmoll, and unconjugated bilirubin up to 400 µmoll, showed no interference.

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- A Do not use the test strips if they have expired.
 ► Test strips expire 6 months after first opening. Write the first opening date on the test
- strip vial when you first opened it. (For strip vial only)

 Store the test strips in a cool, dry place between 2°C and 30°C (35.6°F and 86°F) and between 10% and 85% relative humidity.

 Keep the test strips away from direct sunlight. Do not store the test strips in high humidity.

 Store the test strips in their original vial ONLY. Do not transfer them to a new vial or
- any other containers. (For strip vial only)

 Do not touch the test strips with wet hands
- ► Use each test strip immediately after taking it out of the vial or individual foil packet. Close the vial immediately after taking out a strip. (For strip vial only)

 Keep the vial closed at all times. (For strip vial only)

► Do not bend, cut, or alter the test strip.

Strip Appearance

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1. Absorbent Hole Apply a drop of blood here. The blood will automatically be absorbed.

2. Confirmation Window

This is where you confirm if enough blood has been drawn into the absorbent hole of the strip.

3. Test Strip Handle

Hold this part to insert the test strip into the slot.

4. Contact Bars

Insert this end of the test strip into the meter. Push it in firmly until it will go no further.

Calibration Calibrate the meter every time whenever begin to use a new package of 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 your test strip vial label/packet.

Code Chip

Insert the code chip with the meter switched off. Wait until a number and "KET or

KETONE" appears on display.

2. Remove the code chip. The display will show "OFF", and then the meter will automatically switch off.

Checking the Code Number

Make sure that the number and "KET or KETONE" displayed on the meter matches the number on your test strip vial label/packet before you proceed. If the numbers match, you can proceed with the test. If they do not match, please stop testing and insert the you can proceed with the text. In they do not match, please stop testing and insert the correct code chip. If the problem persists, contact customer service for help Testing Your p-Ketone PLEASE WASH AND DRY YOUR HANDS BEFORE PERFORMING ANY TESTING. ALWAYS

REFER TO THE OWNER'S MANUAL AND LANCET INSERT ON HOW TO COLLECT A BLOOD SAMPLE.

- 1. Insert the test strip fully into the slot of your meter until it will not go any further. When the strip is fully inserted, the meter will perform several self-checks.

 2. Collect a blood sample with the test strip. Make sure there is a sufficient quantity
- of blood in order to provide accurate test results. Apply the blood drop to the absorbent hole of the test strip, and wait until the confirmation window is fully filled. The meter will start counting down. Do NOT apply a smeared blood sample. NEVER try to add more blood to the test strip after the drop of blood has moved
- away. 3. After a few seconds, the meter will display your $\beta\textsc{-Ketone}$ level. The last reading will be automatically saved in the meter. The meter will turn off automatically after the test strip is removed. Make sure to dispose the used lancet and test strip carefully. The used lancet and test strip are obtained biohardrounds. Please dispose them carefully according to your local regulations. Please refer to your Owner's Manual for further information.

Reading Your Result

The β -Ketone readings deliver plasma equivalent results and are displayed in millimoles of β -Ketone per liter of blood (minol/L). The β -Ketone test measures Beta-Hydroxybutyarte (β -OHB), the most important of the three Ketone bodies in the blood. Normally, levels of β-OHB are expected to be less than 0.6 mmol/L.

 β -OHB levels may increase if a person fasts, exercises vigorously or has diabetes and becomes ill. If your β -Ketone result is "Lo", repeat the β -Ketone test with new test strips. If the same

message appears again or the result does not reflect how you feel, contact your healthcare professional. Follow your healthcare professional's advice before you make any changes to your diabetes medication programme. If your β-Ketone result is between 0.6 and 1.5 mmol/L, this may indicate development of a problem that could require medical assistance. Follow your healthcare professional's instructions. If your β-Ketone result is higher than 1.5 mmol/L, contact your healthcare

professional smisuccions. In your precioner sauringhet than 'minute, down lead that your head that you may be at risk of developing diabetic ketoacidosis (DKA).

"I. Wiggam MI, O'Kane MJ, Harper R, Atkinson AB, Hadden Dr, Trimble ER, Bell PM. Treatment of diabetic ketoacidosis using normalization of blood 3-hydroxybutyrate concentration as the endpoint of emergency management. Diabetes Care 1997; 20: 1347-52.

Please consult your doctor to determine a target range that works best for you

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Ouestionable or inconsistent results

If your test results are unusual or inconsistent with how you are feeling:

- Make sure the confirmation window of your test strip is completely filled with blood.
- Check the expiration date of your test strips.
 Check the performance of your meter and test strip with the control solution.

△ If your test results are significantly different from what you expect, or in unusually high or low levels, please repeat the test with a new test strip or contact your healthcare professional.

Expiry Date Reminder

For your convenience, the expiry date reminder will activate and notify you the number of days remaining until the strip's expiry date shown on the vial label or on the foil packet. The down begins from 30 days to 1 day, which will be shown at the center of the display screen. When you see the date reminder, please use the remaining test strips before they expire. A The error message E-2 will appear in the following situations:

- The test strip is expired;
- The code chip is expired; or

On the initial set-up, the date has been set incorrectly on the meter.

If the error message E-2 appears, please repeat the test with a new lot of test strip to get accurate results.

Chemical Components

 β -Hydroxybutyrate Dehydrogenase (Pseudomonas sp.) \geq 0.5 U Mediator 55%

 $NAD \geq 0.5~\mu g$

Enzyme protector 8%

Non-reactive ingredients 29%

Quality Control Testing
Our control solutions contain a known amount of β -Ketone that will react with the test strips. If you are concerned about the meter or test strips are not working properly, you can check the performance of the meter, test strip and your technique by comparing the control solution results with the range printed on the label of test strip vial or on the test strip package. Please refer to your Owner's Manual for the step-by-step quality control test instructions.

\$\triangle\$ The reference range of the control solutions may vary with each new vial or package of \$\triangle\$.

test strips. Make sure you check the range on the label of your current vial or on the current package

Additional Information Always wear gloves and follow your local biohazard control policy and procedures when performing tests involving patient blood samples. Use fresh whole blood samples

only. Professionals may use test strips to test capillary and venous whole blood. Sample Size: 0.8 μL

Seartion Time: 10 seconds System Measurement Range: 0.1 to 8.0 mmol/L Hematocrit Range: 10% to 70%

Accuracy
The reference method is B-Hydroxybutyrate LiquiColor®. The reagent can quantifiably detect the presence of β-Ketone in patients with suspected diabetic ketoacidosis n = 480

L	p Retorie	Capillary samples	Range, mean
Г	Regressione	y = 0.9596x + 0.1524	Range: da 0.01 a 7.77 mmol/l
L	Regressione	R ² = 0.9913	Mean: 0.86mmol/L
			100

β-Ketone	n = 480	
p-ketone	Capillary samples	Range, mean
Regressione	y = 0.9583x + 0.0306	Range: da 0.02 a 7.58 mmol/l
Regressione	$R^2 = 0.9811$	Mean: 1.15mmol/L

User performance

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β-Ketone	n = 160	
p-Ketone	Capillary samples	Range, mean
Regressione	y = 0.9683x + 0.1407	Range: da 0.01 a 7.77 mmol/l
Regressione	$R^2 = 0.9853$	Mean: 0.75mmol/L

Precision

β-Ketone	Concentration			
p-Ketone	0.5mmol/L	2.5mmol/L	5.0mmol/L	
Mean	0.5	2.5	5.1	
SD	0.042	0.065	0.115	
CV (%)		2.65	2.27	

Symbol Information

Symbol	Referent	Symbol	Referent
IVD	In vitro diagnostic medical device	<u></u>	Humidity limitation
(Ii	Consult instructions for use or consult electronic instructions for use	ш	Manufacturer
1	Temperature limit	#	Model number
	Use-by date	8	Do not re-use
LOT	Batch code	UDI	Unique device identifier
<u>^</u>	Caution	(€	CE mark
EC REP	Authorized representative in the European Community		

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Per l'autotest. For self-testing. Pour l'autocontrôle Para autodiagnóstico.









