

On-Call® GK Dual

Blood Glucose & Ketone Monitoring System

2 in 1 Meter



*A Blood Glucose Meter with
Ketone Testing Capability*

- Two Tests in One Meter with Accurate Results
- User-friendly Design for Better Operation
- Versatile and Advanced Performance

ACON®
Diabetes Care

On-Call® GK Dual

Blood Glucose & Ketone Monitoring System



What are Ketones and Diabetic ketoacidosis (DKA) ?

Ketones are poisonous acidic chemicals produced by the body when fat instead of glucose is burned for energy. Breakdown of fat occurs when not enough insulin is present to channel glucose into body cells. The accumulation of these acids in the body may lead to the condition called ketosis and as it gets more serious, ketoacidosis (DKA). DKA is a dangerous complication of diabetes mellitus.

Prevention

Once diabetes has been diagnosed, prevention measures to avoid DKA include regular monitoring of blood glucose, administration of insulin, and lifestyle maintenance. Glucose monitoring is especially important during periods of stress, infection, and trauma when glucose concentrations typically increase as a response to these situations. Ketone tests should also be performed during these periods or when glucose is elevated.

DKA glucose levels exceed 250 mg/dl and can reach 400 to 800 mg/dL. A blood test can quickly determine the concentration of glucose in the bloodstream.

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Who should test for ketone?

It is recommended that all patients with diabetes should test for ketone under the following conditions:

- During acute illness or stress
- When blood glucose levels are consistently >300 mg/dl (16.7 mmol/l)
- During pregnancy
- When any symptoms of ketoacidosis, such as nausea, vomiting, or abdominal pain, are present

Ref: American Diabetes Association. Test of glycemia in diabetes. Diabetes Care 1999;22:s77-79

What does the blood β -Ketone result mean?

β -Hydroxybutyrate Reading	Interpretation
1.6 to 3.0 mmol/L	Readings above 1.5 indicate you may be at risk of developing diabetic ketoacidosis (DKA). Contact your healthcare provider immediately for advice.
0.6 to 1.5 mmol/L	Reading between 0.6 and 1.5 may indicate the development of a problem that may require medical assistance. Follow your healthcare provider's instructions.
Below 0.6 mmol/L	Reading below 0.6 are in the normal range.

Consult with your healthcare professional for the blood β -ketone range that is appropriate for you.

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Two Tests in One Meter with Accurate Results

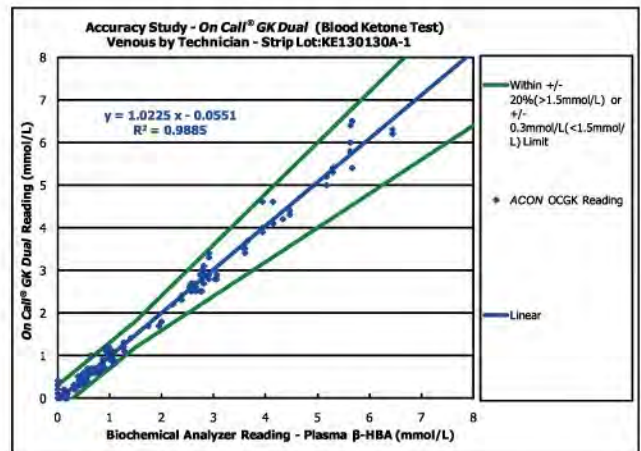
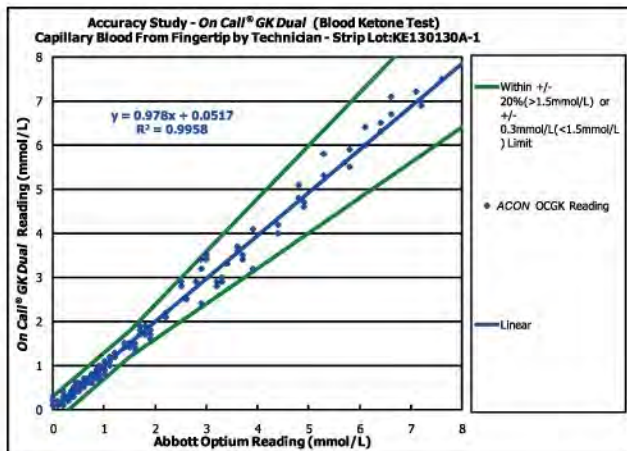
Combined glucose and ketone testing in one meter

For Blood Glucose Testing

- Accurate results in just 5 seconds with only 0.8 µL blood sample
- Compatible use with *On Call® Chosen* and *On Call® Advanced* test strips for glucose testing

For β-Ketone Testing

- Obtain reliable results with 1.2 µL blood sample in 10 seconds
- Clinically proven accuracy for both two tests



Capillary Blood From Fingertip (Technician)

Capillary Blood Sample From Fingertip by Technician_ On Call® GK Dual Reading vs. Abbott Optium Reading			
Strip Lot: KE130130A-1			
System Accuracy Results for β-Ketone Concentration ≥1.5mmol/L			
Within ±5%	Within ±10%	Within ±15%	Within ±20%
42 / 70 (60%)	60 / 70 (85.7%)	68 / 70 (97.1%)	70 / 70 (100%)
System Accuracy Results for β-Ketone Concentration <1.5mmol/L			
Within ±0.1mmol/L	Within ±0.15mmol/L	Within ±0.2mmol/L	Within ±0.3mmol/L
112 / 156 (71.8%)	122 / 156 (78.2%)	155 / 156 (99.4%)	156 / 156 (100%)

Venous Blood

Venous Blood Sample by Technician_ On Call® GK Dual Reading vs. Biochemical Analyzer Result			
Strip Lot: KE130130A-1			
System Accuracy Results for β-Ketone Concentration ≥1.5mmol/L			
Within ±5%	Within ±10%	Within ±15%	Within ±20%
53 / 72 (73.6%)	63 / 72 (87.5%)	69 / 72 (95.8%)	72 / 72 (100%)
System Accuracy Results for β-Ketone Concentration <1.5mmol/L			
Within ±0.1mmol/L	Within ±0.15mmol/L	Within ±0.2mmol/L	Within ±0.3mmol/L
101 / 144 (70.1%)	126 / 144 (87.5%)	140 / 144 (97.2%)	142 / 144 (98.6%)

The data above indicates equivalent correlation to the reference method, demonstrating that the *On Call® GK Dual* Blood Glucose & Ketone Monitoring System provides high accurate results with capillary and venous whole blood samples for blood ketone testing.

For blood glucose testing, please refer to *On Call® Chosen* and *On Call® Advanced* Blood Glucose Monitoring System clinical trial study.

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Blood Glucose & Ketone Monitoring System



User-friendly Design for Better Operation

- Ketone test strips clearly labeled with test name and arrow marks for easier strip identification and operation



- Ketone icon on the display and Code Number starting with letter "K" on the canister help distinguish between ketone and glucose tests



- Strip and lancet ejectors for easy and safe disposal
- Individually foil wrapped test strips for added convenience



Versatile and Advanced Performance

- Meal-markers help monitor results before and after meals
- 5 customizable test reminders help remind patients to test at specific times of the day
- 7, 14, 30, 60 and 90 day averaging allows users to quickly identify blood glucose trends
- Hypo, hyper and ketone warnings alert users to take necessary action
- Up to 450 blood glucose and β -ketone records with time and date

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Specifications

Feature	Specification
Measurement Range	Glucose: 0.6 - 33.3 mmol/L (10 - 600mg/dL) β-ketone: 0.0 - 8.0 mmol/L
Result Calibration	Plasma-equivalent
Sample	Please refer to the blood glucose and ketone test strip inserts
Minimum Sample Size	Glucose: 0.8 μL β-ketone: 1.2 μL
Test Time	Glucose: 5 seconds β-ketone: 10 seconds
On/Off Source	Two (2) CR 2032 3.0V coin cell batteries
Battery Life	Minimum of 3,000 measurements (without considering data transfer and test reminder alarm)
Measurement Unit	Glucose: The meter is pre-set to either mmol/L or mg/dL, depending on the standard of the country β-ketone: The meter is pre-set to mmol/L
Memory	Up to 450 blood glucose and β-ketone records with result type, date and time
Automatic Shutoff	2 minutes after last action
Meter Size	90.3 mm × 58.0 mm × 19.4 mm
Display Size	40.2 mm × 36.0 mm
Operating Temperature	5 - 45°C (41 - 113 °F)
Operating Relative Humidity	10 - 90%
Hematocrit Range	Glucose: Refer to strip insert β-ketone: 20% - 70%
Weight	64 g (with battery installed)

Catalog

Catalog No.	Product Name	Contents
GK114-13B	On Call® GK Dual Blood Glucose & Ketone Meter	1 Meter 1 Control Solution 1 1 Carrying Case 1 Manual 1 Warranty Card 1 Quick Reference Guide
GK134-10A	On Call® Blood Ketone Test Strips	25 Test Strips (25/vial) 1 Code Chip 1 Package Insert
GK134-11A	On Call® Blood Ketone Test Strips	25 Test Strips (Individually Foil Wrapped) 1 Code Chip 1 Package Insert
GK124-12A	On Call® Ketone Control Solution	1 Control Solution 0 1 Control Solution 1 1 Control Solution 2 1 Package Insert
G124-10A	On Call® Lancets	100 Lancets (25/bag)
G124-11A	On Call® Lancing Device	1 Lancing Device 1 Package Insert
G124-13A	Diabetes Management Software(On Call® brand)	1 USB Date Transfer Cable 1 Installation Disk

✓ CE Marked for sale in the European Community



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