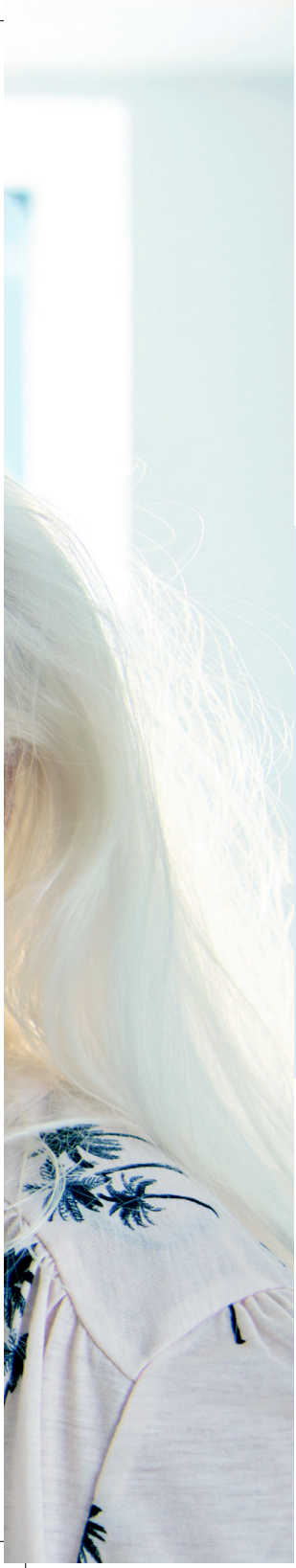
MULTICAREIN

BSI DIAGNOSTICS

SELF TESTING



BSI DIAGNOSTICS

SELF TESTING

Personal medical devices for metabolic disorders MONITORING and PREVENTION, taking advantage of reflectometric and electrochemical technologies.

Altered blood parameters as high blood glucose, high serum cholesterol, high serum triglycerides may define a clinical condition known as METABOLIC SYNDROME[1] which can increase CARDIOVASCULAR RISK[2].

MULTICARE-IN is a self-testing multiparametric system for the monitoring of metabolic disorders. It was developed for patients' home use. Multicare-in can accurately measure blood glucose, cholesterol and triglycerides on the same device in seconds by fingertip pricking[3].

[1] Whitehead SJ, Ford C, Gama R. A combined laboratory and field evaluation of the Cholestech LDX and CardioChek PA point-of-care testing lipid and glucose analysers. Ann Clin Biochem. 2014 Jan; 51(Pt 1):54-67. doi: 10.1177/0004563213482890. Epub 2013- Jul 23.

[2] Vetrano DL, Martone AM, Mastropaolo S, et al., *Prevalence of the seven cardiovascular health metrics in a Mediterranean country: results from a cross-sectional study.* Eur J Public Health. 2013 Oct;23(5):858-62. doi: 10.1093/eurpub/ckt130.

[3] Marzetti E, Calvani R, Picca A et al., Prevalence of dyslipidaemia and awareness of blood cholesterol levels among community-living people: results from the Longevity check-up 7+ (Lookup 7+) cross-sectional survey. BMJ Open. 2018 Jun 30; 8(6):e021627.

MULTICARE-IN
allows patients to check essential parameters involved in metabolic disorders, to send them to a smartphone/tablet and to share them with clinicians.*

*optional, Bluetooth connectivity available depending on product version

- MULTICARE-IN was developed for testing **Glucose**, **Cholesterol** and **Triglycerides** on asingle device by fingertip pricking.

Arezzo, Italy

- Every test is performed with dedicated strips and dedicated memory chips.

  MulticCare-In can transfer data connecting with smatphone / PC / tablet.

MULTICARE-IN's features make it a unique device for the monitoring of metabolic disorders.

SAFE
ejection of the strip.

MEMORY
up to 500 determinations.

EASY TEST PROCEDURE
Switch from a test to another simply by changing the strip and data chip.

CONNECTABLE
with smartphone/ tablet with dedicated APP for iOS/Android.

CUSTOMIZABLE
with Male/Female and Fasting/Not fasting correction factors.

SOLID
lithium battery is sufficient for 1 year/1000 determinations; the device works in a wide range of climatic conditions.

PORTABLE
weight 65 g.

QUICK
5 secs for glucose determination, from 30 to 60 secs for cholesterol and triglycerides determination.

ACCURATE
with Amperometric technology for glucose and Reflectometric technology for cholesterol and triglycerides.*
*ISO 15197: 2015

MULTICARE-IN METER TECHNICAL SPECIFICATIONS

Measurement range	10-600 mg/dL (0.6-33.3 mmol/L) glucose 130-400 mg/dL (3.3-10.2 mmol/L) cholesterol 50-500 mg/dL (0.56-5.6 mmol/L) triglycerides
Power source	2X3V lithium button cell, type CR 2032. The battery can be used for approx. 1 year with 3 measurements per day (approx. 1000 measurements)
Switch on	Automatic switch on by strip detection
Dimensions	Length: 97 mm / Height: 20,5 mm / Width: 49 mm
Weight	65 g (incl. batteries)
Indicator	LCD display
Climatic operating condition	Temperature limits: from 10 to 40°C (50°-104°F) Humidity limits: 0% to 90% relative humidity (non-condensing) Altitude limit: 3000 meters
Memory capacity	500 measured values with time and date
Interface for data processing	Connecting cable and software/bluetooth + App
Warranty of the meter	3 years

MULTICARE-IN STRIPS TECHNICAL SPECIFICATIONS

	CHOLESTEROL STRIPS	GLUCOSE STRIPS	TRIGLYCERIDES STRIPS
Measurement method	Photometric	Amperometric	Photometric
Range of measurement	130-400 mg/dL (3.3-10.2 mmol/L)	10-600 mg/dL (0.6-33.3 mmol/L)	50-500 mg/dL (0.50-5.6 mmol/L)
Sample	Fresh capillary blood	Fresh capillary blood	Fresh capillary blood
Reading time	From 30 to 60 sec.	5 sec.	From 30 to 60 sec.
Sample volume	10 µL	0.5 µL	10 µL
Hematocrit dependence	35-50%	30-55%	30-50%
Storage condition	5-30°C (41-86°F)	5-30°C (41-86°F)	5-30°C (41-86°F)
Packaging	Boxes of 5, 25 pcs	Boxes of 25, 50 pcs	Boxes of 5, 25 pcs

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