

Accutrend Plus

Features & Function

Four parameters – one mobile device

The Accutrend Plus device offers quantitative results for glucose, cholesterol, triglycerides, and lactate directly from capillary blood. For each of these parameters Accutrend Plus uses specially designed test strips from Roche.

Accutrend Plus measures the intensity of the reaction color within the reaction layer of the test strip by reflectance photometry and calculates the parameter concentration of the sample through a lot-specific algorithm. The result is displayed in mg/dl or mmol/l (BM-Lactate only in mmol/l) and stored automatically with date, time, and additional information. The Accutrend Plus meter stores up to 100 results for each parameter.

Superior test strip technology

Accutrend Plus uses specially designed Accutrend Glucose, Accutrend Cholesterol, Accutrend Triglycerides and BM-Lactate superior quality test strips. The test strips contain

- a yellow protective mesh, impregnated with a surfactant (application field)
- a glass fiber fleece that works as a separating layer for blood cells)
- a reaction film in which the color formation takes place and)
- a bar code on the reverse side, which is read by the meter to confirm test strip identity, i.e. the lot number on the test strip is congruent with the stored code)

Built-in safety features

- With its built-in automatic performance and meter self-testing, Accutrend Plus conducts multiple safety checks to prevent against potential errors and malfunction, so you can rely on accurate results.
- Accutrend Plus lets you apply blood onto the strip inside or outside the meter. For example, when conducting multiple tests where cross contamination might be an issue, you can apply blood outside the device.
- Code strips with positive strip lot identification and parameter recognition are used to calibrate the device – an added safety feature, which ensures system performance level is maintained.
- The control solutions Accutrend Control Chol (cholesterol), Accutrend Control GLU (glucose), Accutrend Control TG (triglycerides), and BM-Control Lactate can be used for additional performance checks.

Technical data

Measuring temperature ranges	Depend on parameter used: Cholesterol and triglycerides: 18-30 °C Glucose: 18-32 °C Lactate: 15-35 °C
Measuring ranges	Blood glucose: 20 - 600 mg/dl (1.1 – 33.3 mmol/l) Cholesterol: 150 - 300 mg/dl (3.88 – 7.76 mmol/l) Triglycerides: 70 – 600 mg/dl (0.80 – 6.86 mmol/l) Lactate: 0.8 – 21.7 mmol/l (whole blood), 0.7 – 26 mmol/l (plasma)
Temperature range	-25 °C - +70 °C
Relative humidity	10 – 85% (without condensation)
Sample material	One drop of fresh capillary blood *
Storage capacity	100 results, optional with date, time, and additional information for each parameter
Test principle	Reflectance photometry
Dimensions	154 x 81 x 30 mm
Weight	140 g without batteries
Automatic cut-off	After 2 minutes if no buttons have been pressed
Power requirement	4 x 1.5 V alkaline manganese batteries type AAA for more than 1,000 measurements (with new batteries)
Insulation	class III

* for detailed information see package insert.

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