

ACCU-CHEK TEST STRIPS Instructions

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Intended Use

The Accu-Chek Active test strips (test strips) are intended to be used with the Accu-Chek SugarView app (hereinafter called app) and the Accu-Chek SugarView color card to perform a digital visual check of the blood glucose range. Once a capillary blood sample has been applied to the test area of the test strip, the app interprets the color change and a semi-quantitative blood glucose range appears on the smartphone display. The test strips may only be used outside of the body. If you use the test strips with an Accu-Chek Active blood glucose meter instead of the app, only the information in the test strip package insert applies. The system comprises the app and test strips and is suitable for self-testing blood glucose range. The system

introduces people with type 2 diabetes to regular testing of blood glucose range with the help of optional pre-set

goals.

The system must not be used to diagnose or rule out diabetes.

Before You Get Started

Read these instructions for use before testing your blood glucose with the Accu-Chek SugarView app and the Accu-Chek Active test strips. The User's Manual of the Accu-Chek SugarView app contains all the information you need to perform a test and to understand your test results. If you have questions, contact customer support. Contact information for your country can be found in the main menu. Open the app, and go to: PROFILE > Support Information > Support Contact.



WARNING

The package insert contains warnings:

A WARNING indicates a foreseeable serious hazard.

Self-testing is not a substitute for visits to your doctor. You must receive proper instruction from a qualified healthcare professional before you start self-testing your blood glucose. Your healthcare professional will determine the appropriate blood glucose target range jointly with you.

The cap of the test strip container contains a non-toxic silicatebased drying agent. If you accidentally swallow any of this, drink plenty of water!

These test strips deliver results that correspond to blood glucoseconcentrations in plasma as per the recommendation of the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) [1]. Therefore, the Accu-Chek SugarView app displays blood glucose values that refer to plasma although you always apply whole blood to the test strip.

The normal fasting glucose level for a non-diabetic adult is below 100 mg/dL (5.6 mmol/L). A criterion for the diagnosis of diabetes in adults is a fasting glucose level of 126 mg/dL or higher (7.0 mmol/L or higher) confirmed in two tests [2, 3, 4]. Adults with a fasting glucose level between 100 and 125 mg/dL (5.6 and 6.9 mmol/L) are defined as having impaired fasting glucose (prediabetes) [2]. Other diagnostic criteria for diabetes exist. Consult your doctor or diabetes nurse to determine if you have diabetes or not.

The User's Manual of the Accu-Chek SugarView app includes details on where to get information on the effects and prevalence of diabetes.



This product contains small parts that can be swallowed. Keep the small parts away from small children and people who might swallow small parts.

Contents of the Accu-Chek Active Test Strip Box

- 1 or 2 containers with test strips; on the container label is a color chart, the concentration table for the control solutions and the code number
- 1 package insert inside the test strip box*

The package insert refers only to the use of the test strips with a blood glucose meter. For information on how to use the test strips with the app, open the app and go to: PROFILE > Support Information > Test Strip Instructions.

Additional Materials Required for Blood Glucose Testing

- The Accu-Chek SugarView app and User's Manual (available in the app)
- · Finger pricker and lancets
- Accu-Chek SugarView color card

Blood Volume and Test Time

The test strip requires 1–2 μ L of blood (1 μ L (microliter) = 1 thousandth of a milliliter) per blood glucose test. The blood glucose test takes approximately 13–45 seconds.

Storing and Using Test Strips Properly

WARNING

Risk of a serious health incident

If the test strips are not stored or used properly, they can deliver incorrect test results. This can lead to a serious health incident.

• Store the test strips at temperatures between +2 and +30 °C in a dry place away from direct sunlight.

Also note the following instructions:

- The drying agent contained in the cap of the test strip container protects the test strips from moisture. Always store the test strips in their original test strip container with the cap closed.
- Close the test strip container tightly with its original cap after removing a test strip. Do not remove test strips from the test strip container with moist hands. This enables the drying agent to retain its effect.
- If you store the test strip container in a refrigerator, leave the closed container to stand at an ambient temperature. Only remove a test strip once the test strip container has warmed up to ambient temperature. This prevents condensation from forming in the test strip container.
- Do not store any other objects such as cleaning cloths or used test strips in a test strip container that contains unused test strips. This could make the test strips unusable.
- When you perform a blood glucose test with the app, the temperature must be between +15 and +40 °C.
- · Do not test in direct sunlight.
- Use only test strips which are within the use by date. The use by date is printed next to the e symbol on the packaging and on the label of the test strip container. The use by date applies for test strips from a new, unopened test strip container and for test strips from a test strip container that has already been opened.
- Use a test strip only once. Test strips are for single use only.

Test Principle

On each test strip there is a test area containing reagents. When blood is applied to the test area, the glucose dehydrogenase enzyme (Mut. Q-GDH 2) reacts with the blood glucose. The subsequent chemical reaction changes the color of the test area. The app performs a digital visual test of the color of the control window, interprets the color change on the test strip using the standard color information provided by the accessory color card. The app indicates on the display of the smartphone if your test result falls above, below, or within your target range. Displayed will be a semi-quantitative blood glucose range.

Blood Glucose Ranges

mg/dL	mmol/L	Description
greater than 600	greater than 33.4	outside the measuring range, blood glucose cannot be properly detected
301 to 600	16.7 to 33.4	very high, exercise and doctor visit recommended
181 to 300	10.0 to 16.7	high, exercise recommended
131 to 180	7.3 to 10.0	after a meal (within 2 hours): within target range, good blood glucose result before meal or fasting: slightly high blood glucose result, exercise recommended
71 to 130	3.9 to 7.2	within target range, good blood glucose result
20 to 70	1.1 to 3.9	low or very low, eating or drinking something sugary a nd immediate doctor visit recommended
lower than 20	lower than 1.1	out of measuring range, blood glucose cannot be properly detected

Checking the Test Result

Check by Color Comparison

The test strip itself allows you to estimate the test result through color comparison and thus check the displayed test result in addition. The color comparison serves only as a plausibility check of the test result.

- Before the test: On the back of the test strip, there is a round, colored control window. Compare the color of this
 window with the colored dots on the label of the test strip container. The color of the control window must
 match the color of the top dot (0 mg/dL, 0 mmol/L). If the control window is a different color, do not perform a
 test with that test strip.
- After the test: The label on the test strip container shows blood glucose values in mg/dL and mmol/L next to
 each colored dot. Within 30 to 60 seconds after applying blood to the test strip, compare the color of the control
 window on the back of the test strip with the dot that comes closest to your test result. If the color deviates
 significantly, repeat the test. If the color still deviates in further tests, contact customer support.

Check Performed by the App

The app automatically tests your mobile device's camera and system every time you scan a test strip and lets you know if something is wrong. Additionally, the app checks the quality of the test strip and rejects an unsuitable test strip. In this way, the app ensures that the blood glucose result is measured correctly.

Performance Characteristics

For performance characteristics of the app in combination with test strips refer to the Accu-Chek SugarView app User's Manual. Go to PROFILE > Support Information > App Manual.

Limitations

Certain health conditions can lead to an incorrect test result. If you know that one or more of the following health conditions apply to you, do not use the test strip. If you are unsure whether any of the health conditions apply to you, contact your healthcare professional.

- Intravenous administration of ascorbic acid may lead to falsely elevated test results. Concentrations of ascorbic acid in the blood greater than 8 mg/dL (greater than 0.45 mmol/L) lead to falsely elevated blood glucose test results.
- Parenteral administration of galactose and galactosemia can lead to falsely elevated test results.
 Concentrations of galactose in the blood greater than 15 mg/dL (greater than 0.83 mmol/L) lead to falsely elevated test results. Test results for neonates exhibiting symptoms of galactosemia must be confirmed by laboratory tests.
- Concentrations of bilirubin in the blood up to 40 mg/dL (680 μmol/L) do not interfere. Higher concentrations
 have not been tested.
- Do not use when undergoing ceftriaxone treatment. Concentrations of ceftriaxone in the blood greater than 100 µg/mL (greater than 180 µmol/L) lead to falsely lowered blood glucose test results.
- If peripheral circulation is impaired, capillary blood is not advised as the results might not be a true reflection of the physiological blood glucose level. This may apply in the following circumstances: Severe dehydration as a result of diabetic ketoacidosis or due to hyperglycemic hyperosmolar non-ketotic syndrome, hypotension, shock, decompensated heart failure NYHA class IV, or peripheral arterial occlusive disease.
- You may use blood with a hematocrit of 20 to 55 %.
- Visually impaired people must not use the Accu-Chek SugarView app, the test strips, and the control solutions.
- For any limitations on using blood samples from other sites on your body besides the fingertip (AST testing), refer to the User's Manual of the Accu-Chek SugarView app.
- If you are on insulin therapy or if you take hypo-inducing oral antidiabetics (for example, sulfonylureas), this may lead to incorrect test results.

Reagent Composition

Minimum content per cm2 at time of manufacture

Mutant variant of quinoprotein glucose dehydrogenase (Mut. Q-GDH 2, modified variant of EC 1.1.5.2), acinetobacter spec. 3.0 U
Pyrroloquinoline quinone 0.2 μg
Bis-(2-hydroxyethyl)-(4-hydroximinocyclohexa-2,5-

dienylidene)-ammonium chloride
7.9 µg
2,18-phosphomolybdic acid, sodium salt
85 µg
Stabilizer
0.13 mg
Non-reactive ingredients
1.6 mg

Discarding the Test Strip



Risk of infection

A used test strip can transmit infections. Discard a used test strip as infectious material according to the regulations applicable in your country.

For information on how to discard a used test strip correctly, contact your local council or authority. All components of the pack can be discarded in domestic waste.

Reporting of Serious Incidents

For a patient/user/third party in the European Union and in countries with identical regulatory regime; if, during the use of this device or as a result of its use, a serious incident has occurred, please report it to the manufacturer and to your national authority.

Explanation of Symbols

Symbol	Description
i	Consult instructions for use or consult electronic instructions for use
<u> </u>	Caution, refer to safety-related notes in the instructions for use accompanying this produc t.
1	Temperature limit
62	Use by (unopened or opened test strip container)
	All components of the pack can be discarded in domestic waste. Discard used test strips according to local regulations.

	Date of manufacture
15	Device for self-testing
	Device for near-patient testing
	Manufacturer
UDI	Unique device identifier
REF	Catalogue number
LOT	Batch code
IVD	In vitro diagnostic medical device
C€	Complies with the provisions of the applicable EU Legislation

References

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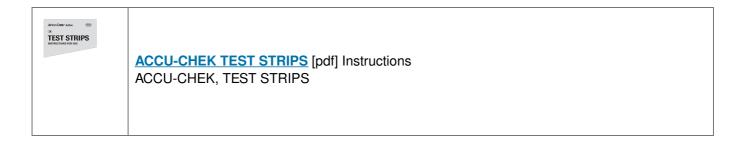
IN VITRO DIAGNOSTIC MEDICAL DEVICE

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Documents / Resources



Manuals+, home privacy