

ACCUGENCE®

Uric Acid Test Strips Package Insert

EN

➤ Specification

Model: SM411
Catalog: SM4111011, SM4111012, SM4111013

➤ Intended Use

ACCUGENCE® Uric Acid Test Strips are used with ACCUGENCE® Multi-Monitoring Meter to quantitatively measure the uric acid concentration in fresh capillary whole blood samples. ACCUGENCE® Uric Acid Test Strips and applicable meter are intended to be used only outside the body (in vitro diagnostic use) by people with hyperuricemia or gout at home, as an aid to monitor the effectiveness of hyperuricemia or gout control. They are only for self-testing, not for near-patient testing.

The test strips shall not be used for screening, diagnosis, or aid to diagnosis of hyperuricemia or gout. They are not automated.

➤ Test Principle

When blood sample is applied to the end tip of the test strip, the sample is then automatically absorbed into the reaction cell where the reaction takes place. A transient electrical current is formed during the reaction and measured by the meter. The uric acid result is then calculated based on this current and is shown on the meter display.

➤ Composition of Strip

Each test strip contains reactive and non-reactive chemicals: Reactive chemicals <100 µg, Non-reactive chemicals <200 µg.

Each test strip vial contains a drying agent.

➤ Storage and Handling

- Store test strips in a cool dry place at 2-30 °C (36-86 °F) and 10-90% relative humidity. Do not freeze. Keep away from heat and direct sunlight. Exposure to temperatures and/or humidity outside the storage limits may cause inaccurate readings.
- The unopened expiration date is printed on the vial.
Note: All expiration dates are printed in Year-Month-Day format. 2020-01-01 means January 1th, 2020.
- A new vial of test strips may be used for 3 months after first opening. Write the opened expiration date on the vial label when you open a new vial.
- Do not use your test strips beyond the unopened expiration date or the opened expiration date whichever comes first. Discard any unused test strips beyond the expiration date, because they may cause inaccurate results.
- Store unused test strips only in the original vial with the cap closed tightly. Do not transfer the test strips to any other container.

- Do not store the meter, the test strips or control solutions near bleach or cleaners with bleach.
- Open the vial only when taking out a test strip for use.
- Close the vial cap tightly immediately after removing a test strip. Use each test strip as soon as you take it out of the vial.
- Use the test strips at temperatures between 10-40 °C (50-104 °F).
- Use the test strips at 10%-90% relative humidity. Do not store or use the test strips in high heat and moisture areas such as the bathroom or kitchen.
- Make sure your meter and test strips are about the same temperature before you test.
- Do not use test strips that are torn, bent, damaged, altered, or contaminated.
- Do not use test strips from a vial that is damaged or left open to air.
- Test strips are for single use only. Do not reuse test strips.
Repeated insertion and removal of a test strip into the meter strip port may result in reading errors.

➤ Precautions

- Do not use new test strips if the vial is open or damaged in any way. This could lead to error messages or inaccurate results.
- Matching the code number on the meter to the code number on the test strip vial is essential to obtain accurate results. Refer to the User's Manual for the detailed instructions about coding.
- Use universal blood precautions when handling, and disposing of, Uric Acid monitoring materials. All patient samples and materials with which they come in contact are considered biohazards and should be handled as if capable of transmitting infection even after you have performed cleaning and disinfection. Follow proper precautions in accordance with all local regulations when disposing of all materials.
- Do not use a lancet that has been used by others.
- Wash your hands thoroughly with soap and water after handling the meter, lancing device or test strips.
- Keep your meter and lancing device clean.
- Apply sample only to the tip of the test strip. Do not apply to the top of the test strip. This may result in a false reading.
- Do not put the used test strips back in the vial after taking a test.
- Keep the test strip vial away from children and animals.
- Always consult your doctor before making any changes to your treatment plan.
- Any serious incident shall be reported to manufacturer and competent authority of the Member State in which user and/or patient is established.

➤ Materials Provided

- Test Strips
- Calibration Chip
- Package Insert

➤ Materials Required but Not Provided

- Multi-monitoring meter
- Sterile Lancets
- Lancing Device
- Control Solution

➤ Coding Procedure

Note: The meter must be calibrated with the calibration chip from test strip package before using a new lot of test strips. It is essential for obtaining accurate results.

1. Insert the calibration chip into the strip port of the meter, then the calibration chip will automatically code the meter and the code number together with code type will be displayed on the LCD screen of the meter.
2. Confirm that code type displayed on the meter is "UA".
3. Confirm that the code number displayed on the meter match the code number shown on strip vial label and calibration chip.

➤ Instructions for Use

See your User's Manual for complete instructions for blood sample collection before use.

1. Open the cap of the test strip vial, remove a test strip. Reclose the vial cap immediately to protect the unused test strips from humidity.
2. Run the test following the instructions in your User's Manual.
3. The test result will be shown on the meter display window. This result should fall within the target range. Your doctor should recommend your target range. If your results are higher or lower, ask your doctor what to do.

➤ Explanation of Test Results

- The ACCUGENCE® Uric Acid Test Strips gives accurate uric acid readings within the range of 179-1190 µmol/L (3.0-20.0 mg/dL).
- "Lo" means that your meter has determined that you Uric Acid result is lower than 179 µmol/L (3.0 mg/dL).
- "Hi" means that your meter has determined that you Uric Acid result is higher than 1190 µmol/L (20.0 mg/dL).

➤ Expected Results

Reference Values^{1,2}

Male	202 – 416 µmol/L (3.4 – 7.0 mg/dL)
Female	143 – 357 µmol/L (2.4 – 6.0 mg/dL)

Notes:

1. The range is only a reference and may not be applicable for every person.
2. Please consult your doctor or healthcare professional when your uric acid level is higher than reference value.
3. Please consult your doctor or healthcare professional for the target uric acid level that is right for you.

➤ Checking the System

The meter must be handled carefully. See the user's manual for detailed instructions for meter care. Perform a quality control test to make sure your meter and ACCUGENCE® Uric Acid test strips are working together properly. Follow the test procedure in user's manual to run a quality control test. Use only ACCUGENCE® Uric Acid Control Solutions. Contact Customer Support for information on purchasing control solution.

There are two levels for ACCUGENCE® Uric Acid Control Solutions. When a control test completed, determine whether the test result is within the range printed on the test vial. If the obtained results fall outside this range, repeat the control test.

CAUTION: If the quality control test result falls outside the control range shown on the test strip vial, **DO NOT** use the system to test your blood, as the system may not be working properly. If you cannot correct the problem, contact your distributor for help.

➤ Limitation

- Do not use the meter in any way that is not specified by the manufacturer. Otherwise, the system might not work the way it is supposed to.
- The test strips are for testing fresh capillary whole blood. Do not use with serum or plasma samples.
- The test strips should not use for the testing of newborns.
- Very high (above 60%) and very low (below 25%) hematocrit levels can cause false results. Talk to your doctor to find out your hematocrit level.
- Fatty substances (triglycerides up to 33.9 mmol/L (3000 mg/dL) or cholesterol up to 12.9 mmol/L (500 mg/dL)) have no significant effect on test results.
- Ascorbic acid (vitamin C), acetaminophen, salicylates, and other reducing substances when occurring in normal blood or normal therapeutic concentrations do not significantly affect results. However, abnormally high concentrations in blood may cause inaccurately high results.
- The test strips may be used at altitudes up to 10,000 feet (3,048 meters).
- Test results may be inaccurate if the patients are severely dehydrated, or severely hypotensive, in shock or in a hyperglycaemic-hyperosmolar state.
- The test strips are **not** recommended for use in critically ill patients.

➤ Performance Characteristics

Calibration and Traceability: The ACCUGENCE® Uric Acid Test Strips are calibrated to reflect plasma uric acid by using Mindray Uric Acid (UA) Kit (Uricase-Peroxidase Method), a laboratory reference method.

System measurement range: 179-1190 µmol/L (3.0-20.0 mg/dL)

Required sample size: 1.0 µL

Tested time: 15 seconds

Reproducibility and Precision

The evaluation was conducted with 10 meters, 3 strip lots, and 4 samples with different uric acid concentrations, and 10 measurements were performed with each combination of meter, strip lot and sample. The results are shown below.

Blood Sample	1	2	3	4
N	300	300	300	300
Grand Mean	306 µmol/L (5.14 mg/dL)	539 µmol/L (9.06 mg/dL)	773 µmol/L (12.99 mg/dL)	1022 µmol/L (17.17 mg/dL)
Pooled SD	20.5 µmol/L (0.34 mg/dL)	19.6 µmol/L (0.33 mg/dL)	28.7 µmol/L (0.48 mg/dL)	35.2 µmol/L (0.59 mg/dL)
Pooled CV (%)	6.7	3.6	3.7	3.4

Intermediate Measurement Precision

The evaluation was conducted with one measurement of each sample per day and was conducted with 10 meters, 3 strip lots and control solutions at 3 uric acid concentrations levels over 10 days. The results are shown below.

Control Solutions	1	2	3
N	300	300	300
Grand Mean	359 µmol/L (6.03 mg/dL)	735 µmol/L (12.36 mg/dL)	1045 µmol/L (17.56 mg/dL)
Pooled SD	22.1 µmol/L (0.37 mg/dL)	28.7 µmol/L (0.48 mg/dL)	36.3 µmol/L (0.61 mg/dL)
Pooled CV (%)	6.2	3.9	3.5

System Accuracy

System accuracy was evaluated with fresh fingertip capillary blood samples by comparing measured values from the ACCUGENCE® Multi-Monitoring Meters tested with ACCUGENCE® Uric Acid Test Strips to Laboratory instrument reference values, and the evaluation were conducted with 100 different subjects by trained operators. The following results were obtained.














Slope	0.9885
y-intercept	-7.69 µmol/L (-0.1293 mg/dL)
Correlation coefficient (r)	0.9860

For complete instructions, please refer to the User's Manual included with your meter. For additional questions or issues with this product, please contact your local distributor for help.

➤ Reference

1. Thefeld W, Hoffmeister H, Busch EW et al. Normal values of serum uric acid levels in relation to age and sex as determined using a new enzymatic uric acid color test. Dtsch Med Wschr. 1973; 98:380-869
2. Frances Fischbach, Marshall B. Dunning, A manual of Laboratory and Diagnostic Tests Edition 8, pp378

➤ Index of Symbols

	Consult instructions for use		Use by	CODE	Code Number
	For in vitro diagnostic use only		Lot Number	REF	Catalog #
	Store between 2-30°C (36-86 °F)		Manufacturer		Do not reuse
	Contains sufficient for <n> tests		Authorized Representative		3 months expiry date from the date of first open vial
	CE Marking		Unique Device Identifier		For self-testing

➤ The summary of safety and performance

Intended users can log in to the European database on medical devices (Eudamed) to request the summary of safety and performance (SSP) of the device or contact the manufacturer to obtain it.

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