ACCUGENCE ® Uric Acid Test Strips

Package Insert

Intended Use

The ACCUGENCE® Uric Acid Test Strips are used with the ACCUGENCE® Multi-Monitoring meter to quantitatively measure the uric acid level in fresh capillary whole blood or venous whole blood.

The ACCUGENCE® Uric Acid Test Strips and applicable meter are intended to be used only outside the body (in vitro diagnostic use) by healthcare professionals for monitoring uric acid level of the patients.

For professional use. Venous blood testing is limited to healthcare professional use only.

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 or use the test strips in high heat and moisture areas such as the bathroom or kitchen
- 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.
- 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
- · 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.

Materials Provided

Test Strips Calibration Chip Package Insert

> Materials Required but Not Provided

Meter

 Sterile Lancets Lancing Device

> 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.

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}

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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 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.

There are two levels for ACCUGENCE® Uric Acid Control Solutions, and the control ranges are shown on the test strip vial label. Normally, Level 1 is sufficient for most of testing needs. If you think the meter or strips may not be working correctly, you may also do a level 2 test. Contact your distributor for information on purchasing the uric acid control solution kit.

Control solution test results must be within the control ranges shown on strip package label: Level 1 test results should fall within Level 1 range; Level 2 test results should fall within Level 2.

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 or venous whole blood. Do not use with serum or plasma samples.
- Blood may be collected into test tubes containing heparin by healthcare professional. Do not use other anticoagulants or preservatives.
- Healthcare professionals may also use venous whole blood samples, the provided blood samples should be used within 30 minutes of collection.
- 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)

of meter, strip lot and sample. The results are shown below.

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

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

Required sample size: 1.0 µL

Control Solution

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

veis 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.

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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-
- 2. Frances Fischbach, Marshall B. Dunning, A manual of Laboratory and Diagnostic Tests Edition 8, pp378

Index of Symbols

\square	Consult instructions for use	\square	Use by	CODE	Code Number
IVD	For <i>in vitro</i> diagnostic use only	LOT	Lot Number	REF	Catalog #
+2°C - +30°C	Store between 2-30°C (36-86 °F)	***	Manufacturer	2	Do not reuse
Σ	Contains sufficient for <n> tests</n>		Authorized Representative	3M	3 months expiry date from the date of first open vial
ϵ	CE Marking				



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