

2024-05-31

# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD

### INTENDED USE

**MAS<sup>®</sup> UA Control** is intended for use in the clinical laboratory as a control for qualitative and semi-quantitative procedures used in routine urinalysis testing. Assay values are provided for specific systems listed. The user can compare observations with expected ranges as a means of assuring consistent performance of reagent and equipment. The product is suitable for use as a control material for physiochemical, chemical, and microscopic methods of routine urinalysis. **UA Control** may be used in conjunction with commercially available standardized systems for urine microscopic analysis.

### PRODUCT DESCRIPTION

**UA Control** is a liquid stable control material prepared from human urine. Analyte levels are adjusted with various pure chemicals and human source materials. **UA Control** also contains preservatives and stabilizers.

**UA Control** is prepared from human urine pools and contains other human source material. Components of the control which are derived from human source material have been tested using FDA accepted methods and found to be non-reactive for Hepatitis B Surface Antigen (HBsAg), Hepatitis C Antibody (HCV) and HIV-1 and HIV-2 Antibody. However, no test method can offer complete assurance that products derived from human source material are free of infectious agents. This control must be handled in accordance with recommendations from the Center for Disease Control/National Institutes of Health manual, "Biosafety in Microbiological and Biomedical Laboratories," 2009.

**DANGER: UA Control** contains <0.9% bovine serum albumin (BSA), <0.1% Sulfobromophthalein sodium salt and <0.006% 3:1 Mixture: 5-chloro-2-methyl-4-isothiazolin-3-one + 2-methyl-4-isothiazolin-3-one (PROCLIN)

H317 - May cause allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. If on skin: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. Dispose of contents/container to location in accordance with local/regional/national/international regulations.

### STORAGE AND STABILITY

Store unopened **UA Control** at 2-8°C. Unopened vials are stable until the expiration date on the label. Once opened, vials of control are stable for 6 weeks when stored tightly capped at room temperature (18-25°C) or 3 months refrigerated (2-8°C). **Do not freeze.**

Bacterial contamination produces an increase in turbidity and/or a characteristic odor. Discard vial if evidence of microbial contamination is observed.

### EXPECTED VALUES

Expected values may vary slightly with different lot numbers and reagent strips. Refer to the included table for values obtained on specific systems. Good laboratory practice suggests that each laboratory establish its own parameters.

Values listed were obtained using instrument(s) and instrument manufacturer's reagents and procedures at the time of assay. Subsequent modifications in instrument, reagent, or procedures may invalidate these values.

Laboratories using methods other than those listed should establish their own expected ranges.

### INSTRUCTIONS FOR USE

#### Materials Required But NOT Provided:

- Slides
- Pipettors
- Centrifuge tubes (Centrifuge tubes, slides, and pipettors from standardized urinalysis systems may be used.)
- Centrifuge capable of generating an RCF of 400 for KOVA method or 450 for manual methods.
- Microscope with a 10x objective and a 40x objective lens
- Urinalysis stain (Optional)
- Chemical reagent strips
- Any additional laboratory equipment or reagents required to perform the physiochemical, chemical and microscopic analyses required.

Allow the **UA Control** to come to room temperature. Thoroughly mix the contents of the vial before each use by gently inverting for several minutes (3 minutes minimum). Replace cap immediately and store the opened vial at room temperature.

#### Physical Tests:

1. **Appearance:** Visually inspect the color and turbidity.
2. **Specific Gravity:** Measure the specific gravity using a refractometer or reagent strip.
3. **Osmolality:** Measure osmolality with an osmometer.

#### Chemical Tests:

1. If reading results visually, compare the reagent strip with the manufacturer's color comparison chart. If using an automated strip reader, follow manufacturer's directions for use.

2a. **15 mL Bottle:** Remove cap from bottle and pour an aliquot of control into a clean test tube. Replace cap immediately after use. Immerse the reagent strip into the control. Remove the strip and follow manufacturer's instructions for testing.

2b. **60 mL Bottle:** Open the vial and pour an aliquot of control into a clean test tube. Replace cap immediately after use. Immerse the reagent strip into the control. Remove the strip and follow manufacturer's instructions for testing.

#### Microscopic Analysis:

If using a standardized methodology for microscopic analysis, follow manufacturer's recommendations. Each laboratory should establish its own values for systems other than those listed.

If using a non-standardized methodology for microscopic analysis, use a 12 mL sample centrifuged for 5 minutes at 450 RCF (relative centrifugal force). Pour off supernatant leaving approximately 0.5 mL. Gently resuspend sediment transferring one drop onto a clean, dry microscope slide and cover with a 22 mm coverslip. Values reported are the range of microscopic elements counted in 10 hpf (high powered fields). Each laboratory should establish its own ranges.

Handle the **UA Control** in the same manner as patient specimens. Consistent handling of the control is necessary for uniform results.

This product contains cellular elements which may form a small amount of sediment in the bottle. To ensure consistent recoveries, invert and mix well prior to use.

**15 mL Bottle:** Wearing eye protection, carefully remove and discard the dropper tip from the bottle. Pour 12 mL of control into a clean conical centrifuge tube. A consistent volume for testing is essential for reproducible microscopic results. Store opened vial at room temperature.

**60 mL Bottle:** Open the vial and pour 12 mL of control into a clean conical centrifuge tube. A consistent volume for testing is essential for reproducible microscopic results. Replace cap immediately after use. Store opened vial at room temperature.

### QUALITY CONTROL

All quality control requirements should be performed in conformance with local, state and/or federal regulations or accreditation requirements.

### LIMITATIONS OF PROCEDURE

**UA Control** must be mixed well before each use to ensure reproducible results.

A consistent volume must be used for testing to ensure reproducible microscopic results.

Organic spheres used to simulate leukocytes may not exhibit the same staining characteristics of human leukocytes.

See manufacturer's product insert for a listing of limitations for each test method. For professional use only.

### TECHNICAL ASSISTANCE

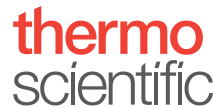
In the USA, for technical assistance, call 800-232-3342 or 510-979-5417. For insert updates and information, if your laboratory subscribes to LabLink xL, visit [www.maslablink.com](http://www.maslablink.com) and select LabLink Extra. Alternatively, to subscribe to LabLink xL call 800-232-3342 or 510-979-5451.

Outside of the USA, if your laboratory subscribes to LabLink xL, visit [www.maslablink.com](http://www.maslablink.com) select LabLink Extra. Alternatively, please contact your local sales office or authorized distributor.

Cat. No.	Description	Size
UAB-115	UA Control, Normal, Level 1	6 x 15 mL
UAB-215	UA Control, Abnormal, Level 2	6 x 15 mL
UAB-MP	UA Control, Multi-Pack	6 x 15 mL
UAB-160	UA Control, Normal, Level 1	4 x 60 mL
UAB-260	UA Control, Abnormal, Level 2	4 x 60 mL

LVL 1 LOT UB1524051 / UB6024051  
 LVL 2 LOT UB1524052 / UB6024052

LVL 1 2024-05-31  
 LVL 2 2024-05-31



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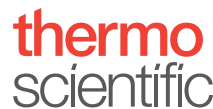
## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>ACON Mission<sup>®</sup> (Visual) - (U.S.)</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.015 Negative	25(+) ~ 200(++) Ery/µL 2(+) ~ 12(++++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L* 30(+) ~ 2000(++++) mg/dL or 0.3 ~ 20 g/L* Positive* 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L* N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 60 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL
<b>ACON Mission<sup>®</sup> (Visual) - (Non U.S.)</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.015 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(++) Ery/µL 2(+) ~ 12(++++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L* 30(+) ~ 2000(++++) mg/dL or 0.3 ~ 20 g/L* Positive* 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L* N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 60 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL 8.0 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
<b>ACON Mission<sup>®</sup> Expert (Visual) (Non U.S.)</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 mg/dL or 3.5 µmol/L Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(++) ~ 250(+++++) Ery/µL 1(+) ~ 12(++++) mg/dL or 17 ~ 200 µmol/L 1(+) ~ 6(++) mg/dL or 17 ~ 100 µmol/L* 30(+) ~ 500(++) mg/dL or 0.3 ~ 5 g/L* Positive* 10(+) ~ 150(++) mg/dL or 1.0 ~ 15.0 mmol/L* N/A***** 100(+) ~ 1000(++) mg/dL or 5.5 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 10-25(+) ~ 500(++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
<b>ACON Mission<sup>®</sup> Expert on Mission<sup>®</sup> Expert U120 Urine Analyzer (Non U.S.)</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 mg/dL or 3.5 µmol/L Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.005 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(++) ~ 250(+++++) Ery/µL 1(+) ~ 12(++++) mg/dL or 17 ~ 200 µmol/L 1(+) ~ 6(++) mg/dL or 17 ~ 100 µmol/L 25(+) ~ 500(++) mg/dL or 0.25 ~ 5.0 g/L Positive 5(+) ~ 150(++) mg/dL or 0.5 ~ 15.0 mmol/L N/A***** 100(++) ~ 1000(++) mg/dL or 5.5 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 25(+) ~ 500(++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
<b>ACON Mission<sup>®</sup> Expert on Mission<sup>®</sup> Expert U500 Urine Analyzer (Non U.S.)</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 mg/dL or 3.5 µmol/L Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.005 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(++) ~ 250(+++++) Ery/µL 1(+) ~ 12(++++) mg/dL or 17 ~ 200 µmol/L 1(+) ~ 6(++) mg/dL or 17 ~ 100 µmol/L 25(+) ~ 500(++) mg/dL or 0.25 ~ 5 g/L Positive 5(+) ~ 150(++) mg/dL or 0.5 ~ 15.0 mmol/L N/A***** 100(++) ~ 1000(++) mg/dL or 5.5 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 25(+) ~ 500(++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal

LVL 1 LOT UB1524051 / UB6024051  
 LVL 2 LOT UB1524052 / UB6024052

LVL 1 2024-05-31  
 LVL 2 2024-05-31



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IVD


		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
ACON Mission <sup>®</sup> on Mission <sup>®</sup> U120 Urine Analyzer	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.005 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(+++) Ery/µL 2(+) ~ 12(++++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(++++) mg/dL or 0.3 ~ 20 g/L Positive 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16 mmol/L N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 60 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(+++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
ACON Mission <sup>®</sup> on Mission <sup>®</sup> U120 Smart Urine Analyzer (U.S.)	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.005 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(+++) Ery/µL 2(+) ~ 12(++++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(++++) mg/dL or 0.3 ~ 20 g/L Positive 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16 mmol/L N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 60 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(+++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
ACON Mission <sup>®</sup> on Mission <sup>®</sup> U120 Ultra Urine Analyzer - (U.S.)	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative	25(+) ~ 200(+++) Ery/µL 2(+) ~ 8(+++) mg/dL or 35 ~ 140 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ >=2000(++++) mg/dL or 0.3 ~ >=20 g/L Positive 5(±) ~ 80(+++) mg/dL or 0.5 ~ 8.0 mmol/L N/A***** 100 ~ >=2000 mg/dL or 5.0 ~ >=111 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(+++) Leu/µL
ACON Mission <sup>®</sup> on Mission <sup>®</sup> U120 Ultra Urine Analyzer - (Non U.S.)	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(+++) Ery/µL 2(+) ~ 8(+++) mg/dL or 35 ~ 140 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ >=2000(++++) mg/dL or 0.3 ~ >=20 g/L Positive 5(±) ~ 80(+++) mg/dL or 0.5 ~ 8.0 mmol/L N/A***** 100 ~ >=2000 mg/dL or 5.0 ~ >=111 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(+++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
ACON Mission <sup>®</sup> on Mission <sup>®</sup> U500 Urine Analyzer - (U.S.)	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative	25(+) ~ 200(+++) Ery/µL 2(+) ~ 8(+++) mg/dL or 35 ~ 140 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ >=2000(++++) mg/dL or 0.3 ~ >=20 g/L Positive 5(±) ~ 80(+++) mg/dL or 0.5 ~ 8.0 mmol/L N/A***** 100 ~ >=2000 mg/dL or 5.0 ~ >=111 mmol/L 6.0 ~ 9.0 1.010 ~ 1.030 15(±) ~ 500(+++) Leu/µL
ACON Mission <sup>®</sup> on Mission <sup>®</sup> U500 Urine Analyzer - (Non U.S.)	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(+++) Ery/µL 2(+) ~ 8(+++) mg/dL or 35 ~ 140 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ >=2000(++++) mg/dL or 0.3 ~ >=20 g/L Positive 5(±) ~ 80(+++) mg/dL or 0.5 ~ 8.0 mmol/L N/A***** 100 ~ >=2000 mg/dL or 5.0 ~ >=111 mmol/L 6.0 ~ 9.0 1.010 ~ 1.030 15(±) ~ 500(+++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal



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		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>Arkray AE-4020 AUTION ELEVEN</b>	Glucose Protein Bilirubin Urobilinogen pH Specific Gravity Blood Ketones Nitrite Leukocyte Esterase	Negative Negative Negative Normal 5.0 - 6.0 <1.005 - 1.015 Negative Negative Negative Negative	30(±) - ≥1000(++++) 100(++) - >600(++++) 0.5(+) - >10(++++) 4.0(++) - >12(++++) 6.5 - 8.5 1.015 - >1.030 0.06(+) - ≥1.0(++++) 40(++) - ≥150(++++) 1+ - 2+
<b>Arkray AUTION HYBRID AU-4050</b>	Glucose Protein Bilirubin Urobilinogen pH Blood Ketones Nitrite Leukocytes Specific Gravity	Negative Negative Negative Normal 5.0 - 6.0 Negative Negative Negative Negative	70(+) - ≥1000(++++) 30(+) - >600(++++) 0.5(+) - >10(++++) 4.0(++) - ≥12.0(++++) 6.5 - 9.0 0.06(+) - ≥1.0(++++) 20(+) - ≥150(++++) 1+ - 2+
<b>Arkray AUTION MAX AX-4030/ AX-4060</b>	Glucose Protein Bilirubin Urobilinogen pH Blood Ketones Nitrite Leukocytes Specific Gravity	Negative Negative Negative Normal 5.0 - 6.0 Negative Negative Negative Negative	70(+) - ≥1000(++++) 30(+) - >600(++++) 0.5(+) - >10(++++) 4.0(++) - >12.0(++++) 6.5 - 8.5 0.06(+) - ≥1.0(++++) 20(+) - ≥150(++++) 1+ - 2+
<b>Arkray AUTION MAX AX-4280</b>	Glucose Protein Bilirubin Urobilinogen pH Blood Ketones Nitrite Leukocyte Esterase Specific Gravity	Normal Negative Negative Normal 5.0 - 6.0 Negative Negative Negative Negative	70(+) - ≥1000(++++) 30(+) - >600(++++) 0.5(+) - >10(++++) 4.0(++) - >12.0(++++) 6.5 - 9.0 0.06(+) - ≥1.0(++++) 20(+) - ≥150(++++) 1+ - 2+
<b>Arkray AUTION MAX AX-4280/ IQ200 Combo</b>	Specific Gravity pH Protein Glucose Ketones Bilirubin Blood Nitrite Urobilinogen Leukocyte Esterase	1.000 - 1.015 5.0 - 6.5 Negative Normal Negative Negative Negative Negative Normal Negative	1.010 - >1.030 7.0 - 9.0 30(+) - >600(++++) 50(+) - ≥1000(++++) 10(+) - ≥150(++++) 0.5(+) - >10.0(++++) Small(+) - Large(+++) or 0.06 - ≥1.0 mg/dL or 0.6 - ≥10.0 mg/L Positive 2.0(+) - >12.0(++++) 25(Trace) - 500(Large) Leu/μL
<b>Arkray PU-4010 POCKETCHEM</b>	Glucose Protein Bilirubin Urobilinogen pH Specific Gravity Blood Ketones Nitrite Leukocyte Esterase	Negative Negative Negative Normal 5.0 - 6.0 <1.005 - 1.015 Negative Negative Negative Negative	50(±) - 1000(++++) 100(++) - 1000(++++) 0.5(+) - >6(++++) 2.0(+) - >8.0(++++) 7.0 - 9.0 1.015 - >1.030 0.06(+) - 1.00(++++) 40(++) - 150(++++) 1+ - 2+
<b>Clarity Diagnostics (DTG) Clarity Urocheck (Visual)<sup>40</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 μmol/L Negative Negative Negative Negative Negative N/A***** 5.0 - 7.0 1.000 - 1.015 Negative	25(±) - 200(++++) 2(+) - 12(++++) 1(+) - 4(++++) 30(+) - 2000(++++) Positive* 5(±) - 160(++++) N/A***** 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.005 - 1.030 15(±) - 500(++++)



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<b>Clarity Diagnostics (DTG) Clarity Urocheck on Clarity Urocheck 120 Urine Analyzer<sup>®</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.005 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL Normal	25(+) ~ 200(+++) Ery/µL 2(+) ~ 12(+++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(+++) mg/dL Positive 5(±) ~ 160(+++) mg/dL or 0.5 ~ 16.0 mmol/L N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(+++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL Abnormal
<b>DFI ComboStik (Visual)</b>	Blood Bilirubin Urobilinogen Ketones Glucose Protein Microalbumin Creatinine Nitrite Leukocyte Esterase pH Specific Gravity Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative 5.0 ~ 6.0 1.005 ~ 1.020 NA*****	10(+) ~ 250(+++) RBC/µL Small(+) ~ Large(+++) 2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 50(+) ~ 1000(+++) mg/dL or 2.8 ~ 56 mmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL 6.0 ~ 9.0 1.010 ~ 1.030 NA*****
<b>DFI ComboStik R-50/50S</b>	Blood Bilirubin Urobilinogen Ketones Glucose Protein Microalbumin Creatinine Nitrite Leukocyte Esterase pH Specific Gravity Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative 5.0 ~ 6.0 1.005 ~ 1.020 NA*****	10(+) ~ 250(+++) RBC/µL Small(+) ~ Large(+++) 2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 50(+) ~ 1000(+++) mg/dL or 2.8 ~ 56 mmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL 6.0 ~ 9.0 1.010 ~ 1.030 NA*****
<b>DFI ComboStik R-300</b>	Blood Bilirubin Urobilinogen Ketones Glucose Protein Microalbumin Creatinine Nitrite Leukocyte Esterase pH Specific Gravity Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative 5.0 ~ 6.0 1.005 ~ 1.020 NA*****	10(+) ~ 250(+++) RBC/µL Small(+) ~ Large(+++) 2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 50(+) ~ 1000(+++) mg/dL or 2.8 ~ 56 mmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL 6.0 ~ 9.0 1.010 ~ 1.030 NA*****
<b>DFI ComboStik R-600S</b>	Blood Bilirubin Urobilinogen Ketones Glucose Protein Microalbumin Creatinine Nitrite Leukocyte Esterase pH Specific Gravity Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative 5.0 ~ 6.0 1.005 ~ 1.020 NA*****	10(+) ~ 250(+++) RBC/µL Small(+) ~ Large(+++) 2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 50(+) ~ 1000(+++) mg/dL or 2.8 ~ 56 mmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL 6.0 ~ 9.0 1.010 ~ 1.030 NA*****



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
DFI ComboStik R-700	Blood Bilirubin Urobilinogen Ketones Glucose Protein Microalbumin Creatinine Nitrite Leukocyte Esterase pH Specific Gravity Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative 5.0 ~ 6.0 1.005 ~ 1.020 NA*****	10(+) ~ 250(+++) RBC/µL Small(+) ~ Large(+++) 2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 50(+) ~ 1000(+++) mg/dL or 2.8 ~ 56 mmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL 6.0 ~ 9.0 1.010 ~ 1.030 NA*****
DFI ComboStik Reader 720	Blood Bilirubin Urobilinogen Ketones Glucose Protein Microalbumin Creatinine Nitrite Leukocyte Esterase pH Specific Gravity Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative 5.0 ~ 6.0 1.005 ~ 1.020 NA*****	10(+) ~ 250(+++) RBC/µL Small(+) ~ Large(+++) 2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 50(+) ~ 1000(+++) mg/dL or 2.8 ~ 56 mmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL 6.0 ~ 9.0 1.010 ~ 1.030 NA*****
DFI CYBOW (Visual)	Urobilinogen Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Microalbumin Creatinine Nitrite Leukocyte Esterase Ascorbic Acid	Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1.005 ~ 1.020 Negative 5.0 ~ 6.0 Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative NA*****	2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L Small(+) ~ Large(+++) 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 1.010 ~ 1.030 10(+) ~ 250(+++) RBC/µL 6.5 ~ 9.0 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL NA*****
DFI CYBOW R-50/50S	Urobilinogen Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Microalbumin Creatinine Nitrite Leukocyte Esterase Ascorbic Acid	Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1.005 ~ 1.020 Negative 5.0 ~ 6.0 Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative NA*****	2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L Small(+) ~ Large(+++) 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 1.010 ~ 1.030 10(+) ~ 250(+++) RBC/µL 6.5 ~ 9.0 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL NA*****
DFI CYBOW R-600S	Urobilinogen Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Microalbumin Creatinine Nitrite Leukocyte Esterase Ascorbic Acid	Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1.005 ~ 1.020 Negative 5.0 ~ 6.0 Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative NA*****	2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L Small(+) ~ Large(+++) 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 1.010 ~ 1.030 10(+) ~ 250(+++) RBC/µL 6.5 ~ 9.0 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL NA*****



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD



		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>DFI CYBOW Reader 300</b>	Urobilinogen Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Microalbumin Creatinine Nitrite Leukocyte Esterase Ascorbic Acid	Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1.005 - 1.020 Negative 5.0 - 6.0 Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative NA*****	2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L Small(+) ~ Large(+++) 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 1.010 ~ 1.030 10(+) ~ 250(+++) RBC/µL 6.5 ~ 9.0 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL NA*****
<b>DFI CYBOW Reader 720</b>	Urobilinogen Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Microalbumin Creatinine Nitrite Leukocyte Esterase Ascorbic Acid	Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative Negative Negative 1.005 - 1.020 Negative 5.0 - 6.0 Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L Negative Negative NA*****	2(+) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L Small(+) ~ Large(+++) 5(±) ~ 100(+++) mg/dL or 0.5 ~ 10 mmol/L 1.010 ~ 1.030 10(+) ~ 250(+++) RBC/µL 6.5 ~ 9.0 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L Positive 25(+) ~ 500(+++) WBC/µL NA*****
<b>DFI CYBOW 10+/DUS (Visual)</b>	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 - 6.0 Negative 1.005 - 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(+++) WBC/µL Positive 2(++) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(+++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(+++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
<b>DFI DU Reader 300</b>	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 - 6.0 Negative 1.005 - 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(+++) WBC/µL Positive 2(++) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(+++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(+++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
<b>DFI DUS R - 50/50S</b>	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 - 6.0 Negative 1.005 - 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(+++) WBC/µL Positive 2(++) ~ 8(+++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(+++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(+++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(+++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
DFI DUS R - 300	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 ~ 6.0 Negative 1.005 ~ 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(++++) WBC/µL Positive 2(++) ~ 8(++++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(++++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
DFI DUS R - 600S	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 ~ 6.0 Negative 1.005 ~ 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(++++) WBC/µL Positive 2(++) ~ 8(++++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(++++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
DFI DUS R - 720	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 ~ 6.0 Negative 1.005 ~ 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(++++) WBC/µL Positive 2(++) ~ 8(++++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(++++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
DFI Uro-dip (Visual)	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 ~ 6.0 Negative 1.005 ~ 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(++++) WBC/µL Positive 2(++) ~ 8(++++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(++++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
DFI Uro-dipcheck 300	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Microalbumin Creatinine Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL or 1.7 ~ 17 µmol/L) Negative 5.0 ~ 6.0 Negative 1.005 ~ 1.020 Negative Negative Negative 1 mg/dL or 10 mg/L 10 mg/dL or 0.88 mmol/L NA*****	15(±) ~ 500(++++) WBC/µL Positive 2(++) ~ 8(++++) mg/dL or 34.8 ~ 135 µmol/L 30(+) ~ 300(++++) mg/dL or 0.3 ~ 3.0 g/L 6.5 ~ 8.5 10(±) ~ 200(++) RBC/µL 1.010 ~ 1.030 5(±) ~ 160(++++) mg/dL or 0.5 ~ 16.0 mmol/L Small(+) ~ Large(+++) mg/dL 100(±) ~ 1000(++) mg/dL or 5.6 ~ 56 mmol/L 3.0 ~ 15.0 mg/dL or 30 ~ 150 mg/L 50 ~ 300 mg/dL or 4.42 ~ 26.5 mmol/L NA*****
DiaScreen 10 (Visual)	Urobilinogen Glucose Ketones Bilirubin Protein Nitrite Leukocyte Esterase Blood pH Specific Gravity	Normal Negative Negative Negative Negative Negative Negative 5.0 ~ 6.0 1.000 ~ 1.015	Normal - 4 mg/dL or 0 - 68 µmol/L* 50 - 500 mg/dL or 28 - 78 mmol/L 5(Trace) - 160(++++) mg/dL or 0.5 - 16 mmol/L 1+ - 3+* 30(+) - 2000(++++) mg/dL or 0.3 - 20 g/L Positive Trace - 3+* Trace - Large(+++) 6.0 - 9.0 1.010 - 1.030





# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
DiaScreen 50	Urobilinogen Glucose Ketones Bilirubin Protein Nitrite Leukocyte Esterase Blood pH Specific Gravity	Normal Negative Negative Negative Negative Negative Negative 5.0 - 6.0 <1.005 - 1.020	Normal - 4 mg/dL or Normal - 68 µmol/L 50(Trace) - 500(++) mg/dL or 28 - 78 mmol/L 5(Trace) - ≥160(++++) mg/dL or 0.5 - ≥16 mmol/L Small(+) - Large(+++) 30(+) - 300(+++) mg/dL or 0.3 - 3.0 g/dL Positive Trace - Large(+++) Trace - Large(+++) 6.0 - 9.0 1.010 - >1.030
DIRUI FUS-1000	Urobilinogen Bilirubin Ketones Blood Protein Nitrite Leukocyte Esterase Glucose pH Specific Gravity	Normal (0.2 - 1 mg/dL or 3.4 - 17 µmol/L) Negative Negative Negative - Ca25(+) Ery/µL Negative Negative Negative ≤5.0 - 6.0 1.000 - 1.010	2(+) - ≥8(+++) mg/dL or 34 - ≥135 µmol/L 3(+) - ≥6(+++) mg/dL or 51 - ≥103 µmol/L 15(+) - ≥160(++++) mg/dL or 1.5 - ≥16 mmol/L Ca25(+) - ≥Ca200(++) Ery/µL 30(+) - ≥2000(++++) mg/dL or 0.3 - ≥20 g/L 0.125(+) - 0.250(++) mg/dL Ca15(±) - ≥Ca500(++) Leu/µL 50(±) - ≥1000(++++) mg/dL or 2.8 - ≥56 mmol/L 6.5 - 8.5 1.015 - 1.050
DIRUI FUS-2000	Urobilinogen Bilirubin Ketones Blood Protein Nitrite Leukocyte Esterase Glucose pH Specific Gravity	Normal (0.2 - 1 mg/dL or 3.4 - 17 µmol/L) Negative Negative Negative - Ca25(+) Ery/µL Negative Negative Negative ≤5.0 - 6.0 1.000 - 1.015	2(+) - ≥8(+++) mg/dL or 34 - ≥135 µmol/L 3(+) - ≥6(+++) mg/dL or 51 - ≥103 µmol/L 15(+) - ≥80(+++) mg/dL or 1.5 - ≥7.8 mmol/L Ca25(+) - ≥Ca200(++) Ery/µL 30(+) - ≥300(++) mg/dL or 0.3 - ≥3.0 g/L Positive Ca70(+) - ≥Ca500(++) Leu/µL 100(+) - ≥1000(++++) mg/dL or 5.6 - ≥56 mmol/L 6.5 - 8.5 1.015 - 1.050
DIRUI FUS-3000	Urobilinogen Bilirubin Ketones Blood Protein Nitrite Leukocyte Esterase Glucose pH Specific Gravity	Normal (0.2 - 1 mg/dL or 3.4 - 17 µmol/L) Negative Negative Negative Negative Negative Negative ≤5.0 - 6.0 1.000 - 1.010	2(+) - ≥8(+++) mg/dL or 34 - ≥135 µmol/L 3(+) - ≥6(+++) mg/dL or 51 - ≥103 µmol/L 15(+) - ≥160(++++) mg/dL or 1.5 - ≥16 mmol/L Ca25(+) - ≥Ca200(++) Ery/µL 30(+) - ≥2000(++++) mg/dL or 0.3 - ≥20 g/L 0.125(+) - 0.250(++) mg/dL Ca70(+) - ≥Ca500(++) Leu/µL 50(±) - ≥1000(++++) mg/dL or 2.8 - ≥56 mmol/L 6.5 - 8.5 1.015 - 1.050
DIRUI H-100	Urobilinogen Bilirubin Ketones Blood Protein Nitrite Leukocyte Esterase Glucose pH Specific Gravity	Normal (0.2 - 1 mg/dL or 3.4 - 17 µmol/L) Negative Negative Negative Negative Negative Negative ≤5.0 - 6.0 1.005 - 1.015	2(+) - ≥8(+++) mg/dL or 34 - ≥135 µmol/L 3(+) - ≥6(+++) mg/dL or 51 - ≥103 µmol/L 15(+) - ≥80(+++) mg/dL or 1.5 - ≥7.8 mmol/L Ca25(+) - ≥Ca200(++) Ery/µL 30(+) - ≥300(++) mg/dL or 0.3 - ≥3.0 g/L Positive Ca70(+) - ≥Ca500(++) Leu/µL 100(+) - ≥1000(++++) mg/dL or 5.6 - ≥56 mmol/L 6.0 - 8.0 1.015 - ≥1.030
DIRUI H-500	Urobilinogen Bilirubin Ketones Blood Protein Nitrite Leukocyte Esterase Glucose pH Specific Gravity	Normal (0.2 - 1 mg/dL or 3.4 - 17 µmol/L) Negative Negative Negative Negative Negative Negative ≤5.0 - 6.0 1.000 - 1.015	2(+) - ≥8(+++) mg/dL or 34 - ≥135 µmol/L 3(+) - ≥6(+++) mg/dL or 51 - ≥103 µmol/L 15(+) - ≥80(+++) mg/dL or 1.5 - ≥7.8 mmol/L Ca25(+) - ≥Ca200(++) Ery/µL 30(+) - ≥300(++) mg/dL or 0.3 - ≥3.0 g/L Positive Ca70(+) - ≥Ca500(++) Leu/µL 100(+) - ≥1000(++++) mg/dL or 5.6 - ≥56 mmol/L 6.0 - 8.0 1.015 - 1.025
DIRUI HC-300	Urobilinogen Bilirubin Ketones Blood Protein Nitrite Leukocyte Esterase Glucose pH Specific Gravity	Normal (0.2 - 1 mg/dL or 3.4 - 17 µmol/L) Negative Negative Negative Negative Negative Negative ≤5.0 - 6.0 1.005 - 1.015	2(+) - ≥8(+++) mg/dL or 34 - ≥135 µmol/L 3(+) - ≥6(+++) mg/dL or 51 - ≥103 µmol/L 15(+) - ≥80(+++) mg/dL or 1.5 - ≥7.8 mmol/L Ca25(+) - ≥Ca200(++) Ery/µL 30(+) - ≥300(++) mg/dL or 0.3 - ≥3.0 g/L Positive Ca70(+) - ≥Ca500(++) Leu/µL 100(+) - ≥1000(++++) mg/dL or 5.6 - ≥56 mmol/L 6.0 - 8.0 1.015 - ≥1.030



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD


		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
Eiken US-3100R Plus Analyzer (non U.S.) using UROPAPER ALPHA III - 9L	Blood/Hemoglobin Bilirubin Glucose Ketones Leukocytes Nitrite pH Specific Gravity Protein Urobilinogen	Negative Negative Negative Negative Negative Negative 5.0 - 6.5 1.000 - 1.015 Negative Normal	0.15(++) - 0.75(+++) mg/dL or 50 - 250 cells/μL 0.5(+) - 2.0(+++) mg/dL or 8.6 - 34 μmol/L 250(++) - 2000(++++) mg/dL or 14 - 111 μmol/L 10(+) - 80(+++) mg/dL or 0.93 - 7.4 μmol/L 25(+) - 500(+++) cells/μL Positive 7.0 - 9.0 1.020 - 1.050 30(+) - 1000(+++) mg/dL or 0.3 - 10 g/L 2.0(+) - 8.0(+++) mg/dL or 34 - 135 μmol/L
Elektronika 77 Instruments (DocUReader/DocUReader 2 Pro, LABUReader Plus/LabUReader Plus 2 & LabUMat/LabUMat 2)	Bilirubin Urobilinogen Ketones Glucose Protein Blood pH Nitrite Leukocytes Specific Gravity	Negative Negative (Normal) Negative Normal or Negative Negative Negative 5.0 - 6.0 Negative Negative 1.000 - 1.010	1(+)- 6(+++) mg/dL or 17 - 100 μmol/L 4(+++) - 12(++++) mg/dL or 70 - 200 μmol/L 15(+) - 150(+++) mg/dL or 1.5 - 15 mmol/L 100(++) - 1000(+++) mg/dL or 8.0 - 56 mmol/L 30(+) - 500(+++) mg/dL or 0.3 - 5.0 μmol/L 50(+++) - 300(+++) Ery/μL 6.0 - 8.0 Positive 25(+) - 500(+++) Leu/μL 1.005 - 1.050
Elektronika UriSed2/UriSed(Mini)	Red Cells White Cells	0 - 9.09 hpf or 0 - 40 Cells/μL 0 - 11.36 hpf or 0 - 50 Cells/μL	1.14 - 56.82 hpf or 5 - 250 Cells/μL 0 - 90.91 hpf or 0 - 400 Cells/μL
Germaine AimStrip <sup>®</sup> 10 SG (Visual) <sup>(d)</sup>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocytes	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 μmol/L Negative Negative Negative Negative 5.0 - 7.0 1.000 - 1.015 Negative	25(+) - 200(+++) Ery/μL 2(+)- 12(++++) mg/dL or 35 - 200 μmol/L 1(+)- 4(+++) mg/dL or 17 - 70 μmol/L* 30(+)- 2000(++++) mg/dL or 0.3 - 20 g/L* Positive* 5(±) - 160(+++) mg/dL or 0.5 - 16.0 mmol/L* 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.005 - 1.030 15(±) - 500(+++) Leu/μL
Germaine AimStrip <sup>®</sup> 10 SG on AimStrip <sup>®</sup> Urine Analyzer/AimStrip <sup>®</sup> Urine Analyzer 2/CT-120 Urine Strip Analyzer <sup>(d)</sup>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 μmol/L Negative Negative Negative Negative N/A***** Negative 5.0 - 7.0 1.005 - 1.020 Negative 1 - 3 mg/dL or 10 - 30 mg/L 10 - 100 mg/dL or 0.9 - 8.8 mmol/L Normal	25(+) - 200(+++) Ery/μL 2(+)- 12(++++) mg/dL or 35 - 200 μmol/L 1(+)- 4(+++) mg/dL or 17 - 70 μmol/L 30(+)- 2000(++++) mg/dL Positive 5(±) - 160(+++) mg/dL N/A***** 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.010 - 1.030 15(±) - 500(+++) Leu/μL 8 - 15 mg/dL or 80 - 150 mg/L 100 - 300 mg/dL or 8.8 - 26.5 mmol/L Abnormal
Germaine AimStrip <sup>®</sup> 10 SG on AimStrip <sup>®</sup> Urine Auto Analyzer <sup>(d)</sup>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 μmol/L Negative Negative Negative Negative N/A***** Negative 5.0 - 7.0 1.000 - 1.020 Negative	25(+) - 200(+++) Ery/μL 2(+)- 8(+++) mg/dL or 35 - 140 μmol/L 1(+)- 4(+++) mg/dL or 17 - 70 μmol/L 30(+)- 300(+++) mg/dL or 0.3 - 3 g/L Positive 5(±) - 80(+++) mg/dL or 0.5 - 8.0 mmol/L N/A***** 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.010 - 1.030 15(±) - 500(+++) Leu/μL
Hitado NobisStrip Expert (Visual)	Blood Bilirubin Urobilinogen Ketones Glucose Protein Nitrite Leukocytes pH Specific Gravity	Negative Negative 0.2 mg/dL or 3.5 μmol/L Negative Negative Negative Negative Negative 5.0 - 6.0 1.000 - 1.015	25(+++) - 250(++++) Ery/μL 1(+)- 6(+++) mg/dL or 17 - 100 μmol/L 1(+)- 12(++++) mg/dL or 17 - 200 μmol/L 10(+)- 150(+++) mg/dL or 1.0 - 15.0 mmol/L 50(+)- 1000(+++) mg/dL or 2.8 - 55 mmol/L 30(+)- 500(+++) mg/dL or 0.3 - 5.0 g/L Positive 25(+) - 500(+++) Leu/μL* 7.0 - 9.0 1.010 - 1.030
Hitado NobisStrip U10 (Visual)	Leukocytes Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose	Negative Negative 0.2 mg/dL or 3.5 μmol/L Negative 5 - 6 Negative 1.000 - 1.015 Negative Negative Negative Negative	70(+)- 500(+++) Leu/μL* Positive 1 - 12 mg/dL or 17 - 200 μmol/L 30(+)- 2000(++++) mg/dL or 0.3 - 20 g/L 7.0 - 9.0 (+) - (++) 1.010 - 1.030 15(+)- 160(++++) mg/dL or 1.5 - 16 mmol/L 1(+)- 4(+++) mg/dL or 17 - 70 μmol/L* 100(±) - 1000(+++) mg/dL or 5.0 - 60 mmol/L



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>IRIS iChem<sup>™</sup> 100</b>	Bilirubin Urobilinogen Ketones Ascorbic Acid Glucose Protein Blood pH Nitrite Leukocyte Esterase Specific Gravity	Negative Normal Negative Negative N/A***** Negative Negative Negative 5.0 - 7.0 Negative Negative 1.000 - 1.015	Negative - 4(+++) mg/dL or 0 - 70 µmol/L 2(+) - 12(+++++) mg/dL or 35 - 200 µmol/L 100(++) - 300(+++++) mg/dL or 10 - 30 mmol/L N/A***** 50(+) - ≥1000(+++++) mg/dL or 3.0 - ≥56 mmol/L 100(++) - ≥500(+++++) mg/dL or 1.0 - ≥5.0 g/L 0.03(+) - ≥1.0(+++++) mg/dL or (5-10) - ≥300 RBCs/µL 6.0 - 9.0 Negative - Positive Negative - 500(+++++) WBCs/µL 1.005 - 1.035
<b>IRIS iChemVELOCITY</b>	Glucose Protein Bilirubin Urobilinogen pH Blood (Hemoglobin) Ketones Nitrite Leukocytes Specific Gravity Ascorbic Acid	Negative Negative Negative Normal 5 - 7.5 Negative Negative Negative Negative 1.000 - 1.015 NA*****	100(+) - ≥1000(+++++) mg/dL or 5.6 - ≥56 mmol/L 10(Trace) - ≥600(+++++) mg/dL or 0.10 - ≥6.0 g/L Negative - 10(++) mg/dL or Negative - 170 µmol/L 2.0(+) - >12.0(+++++) mg/dL or 34 - >200 µmol/L 6 - 9 0.10(+) - ≥1(++) mg/dL or 1.0 - ≥10 mg/L 10(+) - >150(+++++) mg/dL or 1.0 - >15 mmol/L 0.1(+) - 0.2(++) mg/dL 25(Trace) - 500(+++++) WBCs/µL 1.010 - 1.040 NA*****
<b>Macherey-Nagel URYXXON<sup>®</sup> 500 using Medi-Test Combi 10<sup>®</sup> SGL</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocyte Esterase	Negative Normal Negative Negative Negative Negative Normal 5.0 - 7.0 1.000 - 1.020 Negative	10(+) - 250(+++++) Ery/µL 2(+) - 12(+++++) mg/dL or 35 - 200 µmol/L 1(+) - 6(+++++) mg/dL or 17 - 102 µmol/L 30(+) - 500(+++++) mg/dL or 0.3 - 5.0 g/L Positive 25(+) - 300(+++++) mg/dL or 2.5 - 30 mmol/L 50(+) - >500(+++++) mg/dL or 2.8 - >27.8 mmol/L 6.0 - 9.0 1.010 - 1.030 25(+) - 500(+++++) Leu/µL
<b>Macherey-Nagel URYXXON<sup>®</sup> Relax using Medi-Test Combi 10<sup>®</sup> SGL</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocyte Esterase	** ** ** ** ** ** ** ** ** **	** ** ** ** ** ** ** ** ** **
<b>McKesson Consult Urine Reagent Strips (Visual)</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocytes	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 µmol/L Negative Negative Negative Negative Negative 5.0 - 7.0 1.000 - 1.015 Negative	25(+) - 200(+++++) Ery/µL 2(+) - 12(+++++) mg/dL or 35 - 200 µmol/L 1(+) - 4(+++++) mg/dL or 17 - 70 µmol/L 30(+) - 2000(+++++) mg/dL Positive 5(±) - 160(+++++) mg/dL 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.005 - 1.030 15(±) - 500(+++++) Leu/µL
<b>McKesson Consult Urine Reagent Strips and MAC Strips on McKesson U120 Urine Analyzer/McKesson Consult 120 Urine Analyzer</b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 µmol/L Negative Negative Negative Negative Negative 5.0 - 7.0 1.005 - 1.020 Negative 1 - 3 mg/dL or 10 - 30 mg/L 10 - 100 mg/dL or 0.9 - 8.8 mmol/L Normal	25(+) - 200(+++++) Ery/µL 2(+) - 12(+++++) mg/dL or 35 - 200 µmol/L 1(+) - 4(+++++) mg/dL or 17 - 70 µmol/L 30(+) - 2000(+++++) mg/dL Positive 5(±) - 160(+++++) mg/dL 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.005 - 1.030 15(±) - 500(+++++) Leu/µL 8 - 15 mg/dL or 80 - 150 mg/L 100 - 300 mg/dL or 8.8 - 26.5 mmol/L Abnormal
<b>NDC Pro Advantage<sup>®</sup> Urine Reagent Strips (Visual)<sup>(d)</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 - 1.0(±) mg/dL or 3.5 - 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 - 7.0 1.000 - 1.015 Negative	25(+) - 200(+++++) Ery/µL 2(+) - 12(+++++) mg/dL or 35 - 200 µmol/L 1(+) - 4(+++++) mg/dL or 17 - 70 µmol/L* 30(+) - 2000(+++++) mg/dL or 0.3 - 20 g/L* Positive* 5(±) - 160(+++++) mg/dL or 0.5 - 16.0 mmol/L* N/A***** 100 - 1000 mg/dL or 5.0 - 55 mmol/L 6.0 - 9.0 1.005 - 1.030 15(±) - 500(+++++) Leu/µL



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD



		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>NDC Pro Advantage<sup>®</sup> Urine Reagent Strips on Pro Advantage<sup>®</sup> Urine Analyzer<sup>(d)</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(++) Ery/µL 2(+) ~ 12(++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(++) mg/dL Positive 5(±) ~ 160(++) mg/dL N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
<b>Quidel UrinQuick</b>	Bilirubin Urobilinogen Ketones Ascorbic Acid Glucose Protein Blood pH Nitrite Leukocyte Esterase Specific Gravity	** ** ** ** ** ** ** ** ** ** ** **	** ** ** ** ** ** ** ** ** ** ** **
<b>Roche Chemstrip (Visual)</b>	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.010 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.035 7.0 - 9.0 25(Trace) - 500(++) Leu/µL Positive 30(+) - 500(++) mg/dL or 0.30 - 5.00 g/L 100(+) - >1000(++) mg/dL or 6.0 - >56 mmol/L 15(+) - 150(++) mg/dL or 1.5 - 15 mmol/L 1(+) - ≥12(++) mg/dL or 17 - ≥203 µmol/L 1(+) - 6(++) mg/dL or 17 - 100 µmol/L 10(±) - 250(++) Ery/µL
<b>Roche Chemstrip 101</b>	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.010 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.035 7.0 - 9.0 25(Trace) - 500(++) Leu/µL Positive 30(+) - 500(++) mg/dL or 0.30 - 5.00 g/L 100(+) - >1000(++) mg/dL or 6.0 - >56 mmol/L 15(+) - 150(++) mg/dL or 1.5 - 15 mmol/L 1(+) - ≥12(++) mg/dL or 17 - ≥203 µmol/L 1(+) - 6(++) mg/dL or 17 - 100 µmol/L 10(±) - 250(++) Ery/µL
<b>Roche Cobas 6500 Urine Analyzer (u601)</b>	pH Glucose Blood Protein Urobilinogen Nitrite Leukocytes Ketones Bilirubin Specific Gravity	5.0 - 6.0 Normal or Negative Negative Negative Normal or Negative Negative Negative Negative Negative 1.002 - 1.010	6.5 - 9.0 50(+) - 1000(++) mg/dL or 3.0 - 56 mmol/L 25(++) - 250 (+++++) c/µL 25(+) - 500(++) mg/dL or 0.25 - 5.0 g/L 1.0(+) - 12.0(++) mg/dL or 17 - 203 µmol/L Positive 25(+) - 500(++) c/µL 5(+) - 150 (+++++) mg/dL or 0.5 - 15 mmol/L 1.0(+) - 6.0(++) mg/dL or 17 - 100 µmol/L 1.015 - 1.040
<b>Roche Criterion</b>	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.015 5 - 7 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.030 6 - 9 25(Trace) - 500(++) Leu/µL Positive 30(+) - 500(++) mg/dL or 0.30 - 5.00 g/L 100(+) - 1000(++) mg/dL or 6.0 - 56 mmol/L 5(Trace) - 150(++) mg/dL or 0.5 - 15 mmol/L 1 - 12 mg/dL (EU/dL) or 17 - 203 µmol/L 1(+) - 6(++) mg/dL or 17 - 100 µmol/L 10(Trace) - 250(++) Ery/µL
<b>Roche CUA</b>	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.015 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.030 6.5 - 9.0 25(Trace) - 500(++) Leu/µL Positive 30(+) - 500(++) mg/dL or 0.30 - 5.00 g/L 100(+) - 1000(++) mg/dL or 6.0 - 56 mmol/L 15(+) - 150(++) mg/dL or 1.5 - 15 mmol/L 1 - 12 mg/dL (EU/dL) or 17 - 203 µmol/L 1(+) - 6(++) mg/dL or 17 - 100 µmol/L 10(Trace) - 250(++) Ery/µL



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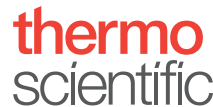
## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
Roche Miditron <sup>®</sup> /Miditron <sup>®</sup> Junior II	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.015 5 - 7 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.030 6 - 9 25(Trace) - 500(++) Leu/μL Positive 30(+) - 500(+++) mg/dL or 0.30 - 5.00 g/L 100(+) - 1000(+++) mg/dL or 6.0 - 56 mmol/L 5(Trace) - 150(+++) mg/dL or 0.5 - 15 mmol/L 1 - 12 mg/dL (EU/dL) or 17 - 203 μmol/L 1(+) - 6(+++) mg/dL or 17 - 100 μmol/L 10(Trace) - 250(++++) Ery/μL
Roche Mini UA	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.015 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.030 7.0 - 9.0 25(Trace) - 500(++) Leu/μL Positive 30(+) - 500(+++) mg/dL or 0.30 - 5.00 g/L 50(+) - >250(+++) mg/dL or 3.0 - >14 mmol/L 15(+) - 150(+++) mg/dL or 1.5 - 15.0 mmol/L 1 - ≥8 mg/dL or 17 - ≥135 μmol/L 1(+) - 6(+++) mg/dL or 17 - 100 μmol/L 10(+) - 250(+++) Ery/μL
Roche SUA	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	** ** ** ** ** ** ** ** ** **	** ** ** ** ** ** ** ** ** **
Roche Urisys 1100	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.020 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.030 6.5 - 9.0 25(Trace) - 500(++) Leu/μL Positive 30(+) - 500(+++) mg/dL or 0.30 - 5.00 g/L 100(+) - >1000(+++) mg/dL or 6.0 - >56 mmol/L 15(+) - 150(+++) mg/dL or 1.5 - 15 mmol/L 1(+) - ≥12(+++) mg/dL (EU/dL) or 17 - ≥203 μmol/L 1(+) - 6(+++) mg/dL or 17 - 100 μmol/L Trace(Trace) - 250(+++) Ery/μL
Roche Urisys 1800/Cobas U411	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.020 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.005 - 1.030 6.5 - 9.0 25(+) - 500(+++) Leu/μL Positive 25(+) - 500(+++) mg/dL or 0.25 - 5.00 g/L 50(+) - 1000(+++) mg/dL or 3.0 - 56 mmol/L 5(+) - 150(+++) mg/dL or 0.5 - 15 mmol/L 1(+) - 12(+++) mg/dL (EU/dL) or 17 - 203 μmol/L 1(+) - 6(+++) mg/dL or 17 - 100 μmol/L 10(+) - 250(++++) Ery/μL
Roche Urisys 2400	Specific Gravity pH Leukocyte Esterase Nitrite Protein Glucose Ketones Urobilinogen Bilirubin Blood	1.000 - 1.015 5.0 - 7.0 Negative Negative Negative Normal Negative Normal Negative Negative	1.020 - 1.050 6.5 - 9.0 25(+) - 500(+++) Leu/μL Positive 25(+) - 500(+++) mg/dL or 0.25 - 5.00 g/L 100(+) - 1000(+++) mg/dL or 6.0 - 56 mmol/L 15(+++) - 150(+++) mg/dL or 1.5 - 15.0 mmol/L 4(+++) - 12(+++) mg/dL or 70 - 200 μmol/L 3(+++) - 6(+++) mg/dL or 50 - 100 μmol/L 25(+++) - 250(++++) Ery/μL
Siemens Reagent Strips (Visual)	Leukocyte Esterase Nitrite Urobilinogen Protein pH Blood Specific Gravity Ketones Bilirubin Glucose Creatinine Protein-to-Creatinine ratio	Negative Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 μmol/L Negative 5.0 - 7.0 Negative 1.000 - 1.020 Negative Negative Negative 10 - 50 mg/dL or 0.9 - 4.4 mmol/L Normal	Small(+) - Large(+++) or Ca 5 - Ca 500 cells/μL* Positive 2.0 - 8.0 mg/dL(EU/dL) or 32 - 128 μmol/L* 100(+++) - ≥2000(++++) mg/dL or 1.00 - ≥20 g/L 6.5 - 8.5 Small(+) - Large(+++) or Ca 25 - Ca 200 cells/μL 1.010 - 1.030 15(Small) - 160(Large) mg/dL or 1.5 - 16 mmol/L Small(+) - Large(+++) * 100(1/10%) - 1000(1%) mg/dL or 5.6 - 56 mmol/L 100 - 300 mg/dL or 8.84 - 26.5 mmol/L Abnormal

LVL 1 LOT UB1524051 / UB6024051  
 LVL 2 LOT UB1524052 / UB6024052

LVL 1 2024-05-31  
 LVL 2 2024-05-31



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## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>Siemens Clinitek 50</b>	Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Urobilinogen Nitrite Leukocyte Esterase Microalbumin Creatinine Protein-to-Creatinine ratio	Negative Negative Negative ≤1.005 - 1.020 Negative 5.0 - 7.0 Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 µmol/L Negative Negative ≤10 - 30 mg/L 10 - 50 mg/dL or 0.9 - 4.4 mmol/L Normal	100(Trace) - ≥1000(+++) mg/dL or 5.5 - ≥55 mmol/L Small(+) - Large(+++) 15(+) - ≥80(+++) mg/dL or 1.5 - ≥8.0 g/L 1.010 - ≥1.030 Small(+) - Large(+++) or Ca 25 - Ca 200 cells/µL 6.5 - 9.0 30(+) - ≥300(+++) mg/dL or 0.3 - ≥3.0 mmol/L 1.0 - ≥8.0 mg/dL (EU/dL) or 16 - ≥128 µmol/L Positive Trace(Trace) - Large(+++) or Ca 15 - Ca 500 cells/µL 80 - ≥150 mg/L 100 - ≥300 mg/dL or 8.84 - ≥26.5 mmol/L Abnormal
<b>Siemens Clinitek 500</b>	Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Urobilinogen Nitrite Leukocyte Esterase Creatinine Protein-to-Creatinine Ratio	Negative Negative Negative ≤1.005 - 1.020 Negative 5.0 - 7.0 Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 µmol/L Negative Negative 10 - 50 mg/dL or 0.9 - 4.4 mmol/L Normal	100(Trace) - ≥1000(+++) mg/dL or 5.5 - ≥55 mmol/L Small(+) - Large(+++) 15(+) - ≥80(+++) mg/dL or 1.5 - ≥8.0 g/L 1.010 - ≥1.030 Small(+) - Large(+++) or Ca 25 - Ca 200 cells/µL 6.5 - 9.0 30(+) - ≥300(+++) mg/dL or 0.3 - ≥3.0 mmol/L 1.0 - ≥8.0 mg/dL (EU/dL) or 16 - ≥128 µmol/L Positive Trace(Trace) - Large(+++) or Ca 15 - Ca 500 cells/µL 100 - ≥300 mg/dL or 8.84 - ≥26.5 mmol/L Abnormal
<b>Siemens Clinitek Advantus</b>	Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Urobilinogen Nitrite Leukocyte Esterase	Negative Negative Negative ≤1.005 - 1.020 Negative - Trace 5.0 - 7.0 Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 µmol/L Negative Negative	100(Trace) - ≥1000(+++) mg/dL or 5.5 - ≥55 mmol/L Small(+) - Large(+++) 15(+) - ≥80(+++) mg/dL or 1.5 - ≥7.8 mmol/L 1.010 - ≥1.030 Small(+) - Large(+++) or Ca 25 - Ca 200 cells/µL 6.5 - 9.0 30(+) - ≥300(+++) mg/dL or 0.3 - ≥3.0 g/L 1.0 - ≥8.0 mg/dL (EU/dL) or 16 - ≥131 µmol/L Positive Trace(Trace) - Large(+++) or Ca 15 - Ca 500 cells/µL
<b>Siemens Clinitek Atlas</b>	Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Urobilinogen Nitrite Leukocyte Esterase Creatinine Protein-to-Creatinine Ratio	Negative Negative Negative 1.000 - 1.015 Negative 5.0 - 7.0 Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 µmol/L Negative Negative 10 - 50 mg/dL or 0.9 - 4.4 mmol/L Normal	100(Trace) - ≥1000(+++) mg/dL or 5.5 - ≥55 mmol/L Small(+) - Large(+++) 15(+) - ≥80(+++) mg/dL or 1.5 - ≥8.0 g/L 1.010 - ≥1.030 Small(+) - Large(+++) or Ca 25 - Ca 200 cells/µL 6.5 - 9.0 30(+) - ≥300(+++) mg/dL or 0.3 - ≥3.0 mmol/L 1.0 - ≥8.0 mg/dL (EU/dL) or 16 - ≥128 µmol/L Positive Trace(Trace) - Large(+++) or Ca 15 - Ca 500 cells/µL 100 - ≥300 mg/dL or 8.84 - ≥26.5 mmol/L Abnormal
<b>Siemens Clinitek Novus</b>	Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Urobilinogen Nitrite Leukocyte Esterase Microalbumin Creatinine Protein-to-Creatinine Ratio	Negative Negative Negative 1.000 - 1.015 Negative - Trace(TR) 5.0 - 7.0 Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 µmol/L Negative Negative ** ** **	100(Trace) - ≥1000(+++) mg/dL or 5.5 - ≥55 mmol/L Small(+) - Large(+++) Trace(Trace) - ≥ 160(+++) mg/dL or Trace - ≥ 15.6 mmol/L 1.010 - ≥1.030 Small(+) - Large(+++) or Ca 25 - Ca 200 cells/µL 6.5 - 9.0 30(+) - ≥1000(+++) mg/dL or 0.3 - ≥10.0 mmol/L 1.0 - ≥8.0 mg/dL (EU/dL) or 16 - ≥131 µmol/L Positive Trace(Trace) - Large(+++) or Ca 15 - Ca 500 cells/µL ** ** **
<b>Siemens Clinitek Status/Status+</b>	Glucose Bilirubin Ketones Specific Gravity Blood pH Protein Urobilinogen Nitrite Leukocyte Esterase Microalbumin Creatinine Protein to Creatinine Ratio hCG	Negative Negative Negative ≤1.005 - 1.020 Negative 5.0 - 7.0 Negative 0.2 - 1.0 mg/dL (EU/dL) or 3.2 - 16 µmol/L Negative Negative <10-30 mg/L 10-50 mg/dL or 0.9 - 4.4 mmol/L Normal Negative	100(Trace) - ≥1000(+++) mg/dL or 5.5 - ≥55 mmol/L Small(+) - Large(+++) 15(+) - ≥ 160(+++) mg/dL or 1.5 - 15.6 mmol/L 1.010 - ≥1.030 Small(+) - Large(+++) or Ca 25 - Ca 200 Ery/µL 6.5 - ≥9.0 30(+) - ≥300(+++) mg/dL or 0.3 - ≥3.0 g/L 1.0 - ≥8.0 mg/dL (EU/dL) or 16 - ≥131 µmol/L Positive Trace(Trace) - Large(+++) or Ca 15 - Ca 500 cells/µL 80 - >150 mg/L 100 - ≥300 mg/dL or 8.84 - ≥26.5 mmol/L Abnormal Positive



# MAS<sup>®</sup> UA Control

## LIQUID ASSAYED URINALYSIS CONTROL

IVD



		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
 <b>Stabio Uri-Chek™ Reagent Strips for Urinalysis (Visual)<sup>(d)</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Absorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.015 Negative	25(+) ~ 200(++) Ery/µL 2(+) ~ 12(++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L* 30(+) ~ 2000(++) mg/dL or 0.3 ~ 20 g/L* Positive* 5(±) ~ 160(++) mg/dL or 0.5 ~ 16.0 mmol/L* N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL
<b>Stabio Uri-Chek™ on Uri-TraK™ 120 Urine Analyzer<sup>(d)</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Absorbic Acid Glucose pH Specific Gravity Leukocytes Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.005 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(++) Ery/µL 2(+) ~ 12(++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(++) mg/dL Positive 5(±) ~ 160(++) mg/dL N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L Abnormal
<b>Sysmex UC-1000</b>	Glucose Protein Bilirubin Urobilinogen pH Blood Ketones Nitrite Leukocytes Specific Gravity Creatinine Albumin Albumin to Creatinine Ratio Protein to Creatinine Ratio	Negative Negative Negative Normal 5.0 ~ 6.0 Negative Negative Negative Negative 1.000 ~ 1.010 10 ~ 50 mg/dL or 0.1 ~ 0.5 g/L 10 ~ 30 mg/L or 0.01 ~ 0.03 g/L Dilute - Normal Dilute - Normal	250(+) ~ 2000(++) mg/dL or 14 ~ 111 mmol/L 30(+) ~ 1000(++) mg/dL or 0.3 ~ 10 g/L 0.5(+) ~ 2.0(++) mg/dL or 8.6 ~ 34 µmol/L 4.0(+) ~ 12.0(++) mg/dL or 68 ~ 202 µmol/L 6.5 ~ 8.5 0.06(+) ~ 0.75(++) mg/dL or 20 ~ 250 c/µL 10(+) ~ 80 (++) mg/dL or 0.93 ~ 7.4 mmol/L Positive 25(+) ~ 500(++) c/µL 1.015 ~ 1.030 100 ~ 300 mg/dL or 1.0 ~ 3.0 g/L 80 ~ ≥150 mg/L or 0.08 ~ ≥0.15 g/L 30(+) ~ ≥300(++) 0.15(+) ~ ≥0.50(++)
<b>Sysmex UX-2000</b>	Glucose Protein Urobilinogen Bilirubin pH Ketones Blood Nitrite Leukocyte Esterase Specific Gravity	** ** ** ** ** ** ** ** ** **	** ** ** ** ** ** ** ** ** **
<b>Thermo Fisher Scientific Fisherbrand<sup>®</sup> 10 SG Urine Reagent Strips (Visual)<sup>(d)</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocyte Esterase	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative 5.0 ~ 7.0 1.000 ~ 1.015 Negative	25(+) ~ 200(++) Ery/µL 2(+) ~ 12(++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(++) mg/dL Positive 5(±) ~ 160(++) mg/dL 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL
<b>Thermo Fisher Scientific Fisherbrand<sup>®</sup> 10 SG Urine Reagent Strips on AimStrip<sup>®</sup> Urine Analyzer/CT-120 Urine Strip Analyzer<sup>(d)</sup></b>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Glucose pH Specific Gravity Leukocyte Esterase Microalbumin Creatinine Albumin-to-Creatinine Ratio	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative 1 ~ 3 mg/dL or 10 ~ 30 mg/L 10 ~ 100 mg/dL or 0.9 ~ 8.8 mmol/L Normal	25(+) ~ 200(++) Ery/µL or Small ~ Large 2(+) ~ 12(++) mg/dL or 35 ~ 200 µmol/L 1(+) ~ 4(++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 2000(++) mg/dL Positive 5(±) ~ 160(++) mg/dL 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.005 ~ 1.030 15(±) ~ 500(++) Leu/µL or Trace ~ Large 8 ~ 15 mg/dL or 80 ~ 150 mg/L 100 ~ 300 mg/dL or 8.8 ~ 26.5 mmol/L



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## LIQUID ASSAYED URINALYSIS CONTROL

IVD

		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
 Thermo Fisher Scientific Fisherbrand <sup>®</sup> 10 SG on AimStrip <sup>®</sup> Urine Auto Analyzer <sup>®</sup>	Blood Urobilinogen Bilirubin Protein Nitrite Ketones Ascorbic Acid Glucose pH Specific Gravity Leukocytes	Negative 0.2 ~ 1.0(±) mg/dL or 3.5 ~ 17 µmol/L Negative Negative Negative Negative Negative N/A***** Negative 5.0 ~ 7.0 1.000 ~ 1.020 Negative	25(+) ~ 200(+++) Ery/µL 2(+) ~ 8(+++) mg/dL or 35 ~ 140 µmol/L 1(+) ~ 4(+++) mg/dL or 17 ~ 70 µmol/L 30(+) ~ 300(+++) mg/dL or 0.3 ~ 3 g/L Positive 5(±) ~ 80(+++) mg/dL or 0.5 ~ 8.0 mmol/L N/A***** 100 ~ 1000 mg/dL or 5.0 ~ 55 mmol/L 6.0 ~ 9.0 1.010 ~ 1.030 15(±) ~ 500(+++) Leu/µL
YD URiSCAN Reagent Strips (Visual)	Blood Bilirubin Urobilinogen Ketones Protein Nitrite Glucose pH Specific Gravity Leukocyte Esterase Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL) Negative Negative Negative Negative Negative 5.0 ~ 7.0 ≤1.005 ~ 1.020 Negative N/A*****	10 ~ 250 RBC/µL (1+ ~ 3+) 0.5 ~ 3.0 mg/dL (1+ ~ 3+) 4 ~ 12 mg/dL (2+ ~ 4+) 10 ~ 100 mg/dL (1+ ~ 3+) 100 ~ 1000 mg/dL (2+ ~ 4+) Positive 100 ~ 1000 mg/dL (± ~ 3+) 6.0 ~ 8.0 1.010 ~ ≥1.030 10 ~ 500 WBC/µL (± ~ 3+) N/A*****
YD URiSCAN on Optima/Optima+	Blood Bilirubin Urobilinogen Ketones Protein Nitrite Glucose pH Specific Gravity Leukocyte Esterase Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL) Negative Negative Negative Negative Negative 5.0 ~ 7.0 ≤1.005 ~ 1.020 Negative N/A*****	10 ~ 250 RBC/µL (1+ ~ 3+) 0.5 ~ 3.0 mg/dL (1+ ~ 3+) 4 ~ 12 mg/dL (2+ ~ 4+) 10 ~ 100 mg/dL (1+ ~ 3+) 100 ~ 1000 mg/dL (2+ ~ 4+) Positive 100 ~ 1000 mg/dL (± ~ 3+) 6.0 ~ 8.0 1.010 ~ ≥1.030 10 ~ 500 WBC/µL (± ~ 3+) N/A*****
YD URiSCAN on PRO/PRO+	Blood Bilirubin Urobilinogen Ketones Protein Nitrite Glucose pH Specific Gravity Leukocyte Esterase Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL) Negative Negative Negative Negative Negative 5.0 ~ 7.0 ≤1.005 ~ 1.020 Negative N/A*****	10 ~ 250 RBC/µL (1+ ~ 3+) 0.5 ~ 3.0 mg/dL (1+ ~ 3+) 4 ~ 12 mg/dL (2+ ~ 4+) 10 ~ 100 mg/dL (1+ ~ 3+) 100 ~ 1000 mg/dL (2+ ~ 4+) Positive 100 ~ 1000 mg/dL (± ~ 3+) 6.0 ~ 8.0 1.010 ~ ≥1.030 10 ~ 500 WBC/µL (± ~ 3+) N/A*****
YD URiSCAN on Optima II	Blood Bilirubin Urobilinogen Ketones Protein Nitrite Glucose pH Specific Gravity Leukocyte Esterase Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL) Negative Negative Negative Negative Negative 5.0 ~ 7.0 ≤1.005 ~ 1.020 Negative N/A*****	10 ~ 250 RBC/µL (1+ ~ 3+) 0.5 ~ 3.0 mg/dL (1+ ~ 3+) 4 ~ 12 mg/dL (2+ ~ 4+) 10 ~ 100 mg/dL (1+ ~ 3+) 100 ~ 1000 mg/dL (2+ ~ 4+) Positive 100 ~ 1000 mg/dL (± ~ 3+) 6.0 ~ 8.0 1.010 ~ ≥1.030 25 ~ 500 WBC/µL (1+ ~ 3+) N/A*****
YD URiSCAN on PRO II	Blood Bilirubin Urobilinogen Ketones Protein Nitrite Glucose pH Specific Gravity Leukocyte Esterase Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL) Negative Negative Negative Negative Negative 5.0 ~ 7.0 ≤1.005 ~ 1.020 Negative N/A*****	10 ~ 250 RBC/µL (1+ ~ 3+) 0.5 ~ 3.0 mg/dL (1+ ~ 3+) 4 ~ 12 mg/dL (2+ ~ 4+) 10 ~ 100 mg/dL (1+ ~ 3+) 100 ~ 1000 mg/dL (2+ ~ 4+) Positive 100 ~ 1000 mg/dL (± ~ 3+) 6.0 ~ 8.0 1.010 ~ ≥1.030 25 ~ 500 WBC/µL (1+ ~ 3+) N/A*****
YD URiSCAN on Super/Super+	Blood Bilirubin Urobilinogen Ketones Protein Nitrite Glucose pH Specific Gravity Leukocyte Esterase Ascorbic Acid	Negative Negative Normal (0.1 ~ 1.0 mg/dL) Negative Negative Negative Negative Negative 5.0 ~ 7.0 1.000 ~ 1.015 Negative N/A*****	10 ~ 250 RBC/µL (1+ ~ 3+) 0.5 ~ 3.0 mg/dL (1+ ~ 3+) 4 ~ 12 mg/dL (2+ ~ 4+) 10 ~ 100 mg/dL (1+ ~ 3+) 100 ~ 1000 mg/dL (2+ ~ 4+) Positive 100 ~ 1000 mg/dL (± ~ 3+) 6.0 ~ 8.0 1.020 ~ 1.040 10 ~ 500 WBC/µL (± ~ 3+) N/A*****



LVL 1 LOT UB1524051 / UB6024051  
 LVL 2 LOT UB1524052 / UB6024052

LVL 1 2024-05-31  
 LVL 2 2024-05-31





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## LIQUID ASSAYED URINALYSIS CONTROL

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		LVL 1 <R> UB1524051A/UB6024051A	LVL 2 <R> UB1524052B/UB6024052B
<b>Yellow IRIS</b>	Specific Gravity (MGM Method) Specific Gravity (Chemstrip Method) pH Protein Glucose Ketones Bilirubin Blood Nitrite Urobilinogen Leukocyte Esterase	** ** ** ** ** ** ** ** ** ** ** **	** ** ** ** ** ** ** ** ** ** ** **





LVL 1 LOT UB1524051 / UB6024051  
 LVL 2 LOT UB1524052 / UB6024052

LVL 1 2024-05-31  
 LVL 2 2024-05-31



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## LIQUID ASSAYED URINALYSIS CONTROL

IVD

(a)			
	U	LVL 1 <sup>(a)</sup> <R> UB1524051A/UB6024051A	LVL 2 <sup>(b)</sup> <R> UB1524052B/UB6024052B
<b>URI-system</b>	<p><b>Red Cells</b> / Rote Blutkörperchen / Globules rouges / Eritrociti / Glóbulos rojos / Røde celler / Rode cellen / Púnasolut / Ερυθρά αιμοσφαίρια / Røde celler / Krwinki czerwone / Eritrócitos / Эритроциты / Röda blodkroppar / Kırmızı Hücreler / 红细胞 / 赤血球 / 紅血球</p> <p><b>White Cells</b> / Weiße Blutkörperchen / Globules blancs / Leucociti / Glóbulos blancos / Hvide celler / Witte cellen / Valkosolut / Λευκά αιμοσφαίρια / Hvide celler / Krwinki białe / Leucócitos / Лейкоциты / Vita blodkroppar / Beyaz Hücreler / 白细胞 / 白血球 / 白血球</p> <p><b>Crystals</b> / Kristalle / Cristaux / Cristalli / Cristales / Krystaller / Kristallen / Kiteet / Κρύσταλλοι / Krystaller / Składniki krystaliczne / Cristais / Соли в моче / Kristaller / Kristaller / 晶体 / 結晶 / 結晶體</p> <p><b>Casts</b> / Ablagerungen / Cylindres / Cilindri / Cilindros / Samlinger / Zwemen / Muotit / Κύλινδροι / Sylinderer / Składniki lite / Cilindros / Цилиндры в моче / Cylindrar / Dökümler / 管型 / 尿管 / 圓柱體</p>	<p>0 hpf</p> <p>0 hpf</p> <p>Absent</p> <p>0<sup>(c)</sup></p>	<p>1 - 63 hpf</p> <p>1 - 62 hpf</p> <p>Absent - Present</p> <p>0<sup>(c)</sup></p>
<b>Coverslide Method</b>	<p><b>Red Cells</b> / Rote Blutkörperchen / Globules rouges / Eritrociti / Glóbulos rojos / Røde celler / Rode cellen / Púnasolut / Ερυθρά αιμοσφαίρια / Røde celler / Krwinki czerwone / Eritrócitos / Эритроциты / Röda blodkroppar / Kırmızı Hücreler / 红细胞 / 赤血球 / 紅血球</p> <p><b>White Cells</b> / Weiße Blutkörperchen / Globules blancs / Leucociti / Glóbulos blancos / Hvide celler / Witte cellen / Valkosolut / Λευκά αιμοσφαίρια / Hvide celler / Krwinki białe / Leucócitos / Лейкоциты / Vita blodkroppar / Beyaz Hücreler / 白细胞 / 白血球 / 白血球</p> <p><b>Crystals</b> / Kristalle / Cristaux / Cristalli / Cristales / Krystaller / Kristallen / Kiteet / Κρύσταλλοι / Krystaller / Składniki krystaliczne / Cristais / Соли в моче / Kristaller / Kristaller / 晶体 / 結晶 / 結晶體</p> <p><b>Casts</b> / Ablagerungen / Cylindres / Cilindri / Cilindros / Samlinger / Zwemen / Muotit / Κύλινδροι / Sylinderer / Składniki lite / Cilindros / Цилиндры в моче / Cylindrar / Dökümler / 管型 / 尿管 / 圓柱體</p>	<p>0 hpf</p> <p>0 hpf</p> <p>Absent</p> <p>0<sup>(c)</sup></p>	<p>1 - 63 hpf</p> <p>1 - 62 hpf</p> <p>Absent - Present</p> <p>0<sup>(c)</sup></p>