

## **Liquid Urine Control Expected Values**

Mission® Urinalysis Reagent Strips Visual Reading

Anglyto	Level 1 (Lot#17110079)			Level 2 (Lot#17100429)			Level 1 (14C and 13CE) (Lot#17110079)			Level 2 (14C and 13CE) (Lot#17100429)		
Analyte	Conventional	SI	Arbitrary	Conventional	SI	Arbitrary	Conventional	entional SI		Conventional	SI	Arbitrary
Leukocytes (LEU)	Negative	Negative	_	15-500 Leu/µL	15-500 Leu/µL	+/ 3+	Negative	Negative		15-500 Leu/µL	15-500 Leu/µL	+/ 3+
Nitrite (NIT)	Negative	Negative		Positive	Positive	+	Negative	Negative	-	Positive	Positive	+
Urobilinogen (URO)	0.2 1mg/dL	3.5 - 17µmol/L	±	2 - 12 mg/aL	35 - 200 µmo /L	1+-4+	0.2 - 1 mg/dL	3.5- 17µmol/L	±	2 - 12 mg/dL	35 – 200µmol/L	1+-4+
Protein (PRO)	Negative	Negative	_	30 - 2000 mg/dL	0.3 - 20.0g/L	1+ - 4+	Negative	Negative	-	30 - 2000 mg/dL	0.3 - 20.0g/L	1+ - 4+
	5.0 - 7.0	5.0 - 7.0	5.0 - 7.0	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0	5.0 - 7.0	5.0 - 7.0	5.0 - 7.0	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0
pH	Negative	Negative		25 - 200 Ery/µL	25 – 200 Ery/µL	1+ - 3+	Negative	Negative		25 - 200 Ery/µL	25 – 200 Ery/µL	1+-3+
Blood (BLO)	1.015 - 1.030	1.015 - 1.030		1.005 - 1.025	1.005 - 1.025	1.005 - 1.025	1.015-1.030	1.015 - 1.030	1.015-1.030	1.005-1.025	1.005 - 1.025	1.005 - 1.025
Specific Gravity (SG)	Negative	Negative	-		0.5-16.0mmol/L	±-4+	Negative	Negative		5-160mg/dL	0.5-16.0mmol/L	±-4+
Ketone (KET)				1 – 4 mg/dL	17 – 70µmol/L	1+ - 3+	Negative	Negative	_ ,	1 – 6 mg/dL	17 – 100µmol/L	1+ - 3+
Bilirubin (BIL)	Negative	Negative Negative		100-1000mg/dL	-	±-3+	Negative	Negative	_	100-1000mg/dL	5 – 60mmol/L	1+ - 4+
Glucose (GLU)	Negative			Negative	Negative		Negative	Negative		Negative	Negative	
Ascorbic Acid (ASC)	Negative	Negative	10 – 30mg/L	80 - 150mg/L	80 - 150mg/L	80 - 150mg/L	10 – 30mg/L	10 - 30mg/L	10 - 30mg/L	80 - 150mg/L	80 - 150mg/L	80 - 150mg/L
Microalbumin (ALB)	10 – 30mg/L	10 - 30mg/L				100 -300mg/dL		0.9-8.8mmol/L	10 -100mg/dL	100-300mg/dL	8.8-26.5mmol/L	100 -300mg/dl
Creatinine (CRE)	10 –100mg/dL			100 –300mg/dL	Abnormal	Abnomal	NA NA	NA	NA	NA	NA	NA
Albumin-to-Creatinine Ratio	Normal	Normal	Normal	Abnormal			Normal	Normal	Normal	Abnormal	Abnormal	Abnormal
Protein-to-Creatinine Ratio	Normal	Normal	Normal	Abnormal	Abnormal	Abnomal			4 – 10mg/dL	20 - 40mg/dL	5.0-10mmol/L	20 - 40mg/dL
Calcium (CA)	4 - 10mg/dL	1 0-2 5mmol/L	4 - 10mg/dL	20 - 40mg/dL	5.0-10mmol/L	20 - 40mg/dL	4 – 10mg/dL	1.0-2.3MMOVL	4 - Torrigrat	20 - 40Hg/aL	O.O TOTTITIONE	

Mission® Urinalysis Reagent Strips Analyzer Reading with Mission® U120/U500/U120 Ultra\*

Analyte	Level 1 (Lot#17110079)			Level 2 (Lot#17100429)			Level 1 (14C and 13CE) (Lot#17110079)			Level 2 (14C and 13CE) (Lot#17100429)		
Analyte	Conventional	SI	Arbitrary	Conventional	SI	Arbitrary	Conventional	SI	Arbitrary	Conventional	SI	Arbitrary
Leukocytes (LEU)	Negative	Negative	_	15-500 Leu/µL	15-500 Leu/µL	+/ 3+	Negative	Negative	-	15-500 Leu/µL	15-500 Leu/μL	+/ 3+
	Negative	Negative	_	Positive	Positive	+	Negative	Negative	_	Positive	Positive	+
Nitrite (NIT)	-	3.5 – 17µmol/L	±	2 - 8 mg/dL	35 - 140µmol/L	1+ - 3+	0.2 - 1 mg/dL	3.5- 17µmol/L	±	2 – 8 mg/dL	35 – 140µmol/L	1+ - 3+
Urobilinogen (URO)	Negative	Negative	_	30 - 300mg/dL	0.3 - 3.0g/L	1+ - 3+	Negative	Negative	_	30 - 300mg/dL	0.3 - 3.0g/L	1+ - 3+
Protein (PRO)	5.0 - 7.0	5.0 - 7.0	5.0 - 7.0	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0	5.0 - 7.0	5.0 - 7.0	5.0 - 7.0	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0
pH (DLO)		Negative		25 - 200 Ery/µL		1+-3+	Negative	Negative	_	25 – 200 Ery/μL	25 – 200 Ery/µL	1+ - 3+
Blood (BLO)	Negative	1.015 - 1.030	1.015-1.030	1.005 - 1.025	1.005 - 1.025	1.005 - 1.025	1.015-1.030	1.015 - 1.030	1.015-1.030	1.005-1.025	1.005 - 1.025	1.005 - 1.025
Specific Gravity (SG)	1.015 - 1.030			5 - 80mg/dL	0.5-8.0mmol/L	±-3+	Negative	Negative		5-80mg/dL	0.5-8.0mmol/L	±-3+
Ketone (KET)	Negative	Negative	-		17 – 70µmol/L	1+ - 3+	Negative	Negative	-	1 – 6 mg/dL	17 - 100 µmol/L	1+ - 3+
Bilirubin (BIL)	Negative	Negative		1 – 4 mg/dL	-	±-3+	Negative	Negative		100-1000mg/dL	5 – 60mmol/L	1+ - 4+
Glucose (GLU)	Negative	Negative	-	100-1000mg/dL				Negative	_	Negative	Negative	-
Ascorbic Acid (ASC)	Negative	Negative	-	Negative	Negative	_	Negative	-		80 - 150mg/L	80 - 150mg/L	80 - 150mg/l
Microalbumin (ALB)	10 - 30mg/L	10 - 30mg/L	10 - 30mg/L	80-150mg/L	80 - 150mg/L	80 - 150mg/L	10-30mg/L	10 – 30mg/L	10 - 30mg/L		-	
Creatinine (CRE)	10 -100mg/dL	0.9-8.8mmol/L	10 -100mg/dl	100 -300mg/dL	8.8-26.5mmo/L	100 –300mg/dL	10 -100mg/dL				8.8-26.5mmol/L	
Albumin-to-Creatinine Ratio	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Normal	Normal	Abnormal	Abnormal	Abnomal	NA	NA	NA	NA	NA	NA
Protein-to-Creatinine Ratio	Normal	Normal	Normal	Abnormal	Abnormal	Abnormal	Normal	Normal	Normal	Abnormal	Abnormal	Abnormal
Calcium (CA)	4 – 10mg/dL	1.0-2.5mmol/L	4 – 10mg/dL	20 - 40mg/dL	5.0-10mmol/L	20 - 40mg/dL	4 – 10mg/dL	1.0-2.5mmol/L	4 - 10mg/dL	20 - 40mg/dL	5.0-10mmol/L	20 – 40mg/dL

Mission® Expert Urinalysis Reagent Strips Visual Reading

		Level 1 (Lot#17110079)		Level 2 (Lot#17100429)				
Analyte	Conventional	SI	Arbitrary	Conventional	SI	Arbitrary		
A	Negative	Negative	_	Negative	Negative	_		
Ascorbic Acid (ASC)	Negative	Negative	_	Ca.25 - Ca.250 Ery/µI	Ca.25 - Ca.250 Ery/µl	2+ - 4+		
Blood (ERY, Hb)	Negative	Negative	-	1-6 mg/dL	17 – 100μmol/L	1+ - 3+		
Bilirubin (BIL)		3.5 µmol/L	_	4 – 12 mg/dL	70 – 200 μmol/L	2+ - 4+		
Urobilinogen (URO)	0.2 mg/dL	Negative		10 – 150 mg/dL	1.0 – 15.0 mmol/L	1+ - 3+		
Ketone Bodies (KET)	Negative	Negative		100 – 1000 mg/dL	5.5 – 56 mmol/L	2+ - 4+		
Glucose (GLU)	Negative			30 – 500 mg/dL	0.3 - 5.0 g/L	1+ - 3+		
Protein (PRO)	Negative	Negative		Positive	Positive	+		
Nitrite (NIT)	Negative	Negative		ca. 10-25 - ca. 500 Leu/µl	ca. 10-25 - ca. 500 Leu/µl	1+-3+		
Leukocytes (LEU)	Negative	Negative	~~~~~~~~	7.0 - 9.0	7.0=9.9	7.0 - 9.0		
Hq	5.0 - 7.0	5.0 - 7.0	5.0 - 7.0			1.005 - 1.025		
Specific Gravity (SG)	1.015 - 1.030	1.015 - 1.030	1.015 - 1.030	1.005 - 1.025	1.005 - 1.025			
Microalbumin (ALB)	10 – 30 mg/L	10 - 30mg/L	10 - 30 mg/L	80 – 150 mg/L	80 – 150 mg/L	80 – 150 mg/L		
Creatinine (CRE)	10 – 100 mg/dL	0.9 - 8.8 mmol/L	10 – 100 mg/dL	100 – 300 mg/dL	8.8 – 26.5 mmol/L	100 – 300 mg/dL		
Albumin-to-Creatinine Ratio	Normal	Normal	Normal	Abnormal	Abnomal	Abnormal		
Protein-to-Creatinine Ratio	Normal	Normal	Normal	Abnormal	Abnormal	Abnormal		

Mission® Expert Urinalysis Reagent Strips Analyzer Reading with Mission® Expert U120/U500\*

		Level 1 (Lot#17110079)		Level 2 (Lot#17100429)				
Analyte	Conventional	SI	Arbitrary	Conventional	SI	Arbitrary		
A	Negative	Negative	-	Negative	Negative	-		
Ascorbic Acid (ASC)		Negative		25 – 250 Ery/µl	25 – 250 Ery/µl	2+ - 5+		
Blood (ERY, Hb)	Negative	Negative		1- 6 mg/dL	17 – 100 μmol/L	1+ - 3+		
Bilirubin (BIL)	Negative	3.5 µmol/L		4 – 12 mg/dL	70 – 200 µmol/L	2+ - 4+		
Urobilinogen (URO)	0.2 mg/dL	Negative		15 – 150 mg/dL	1.5 - 15.0 mmol/L	2+ - 4+		
Ketone Bodies (KET)	Negative	Negative		100 – 1000 mg/dL	5.5 - 56 mmol/L	2+ - 4+		
Glucose (GLU)	Negative	Negative		25 - 500 mg/dL	0.25 - 5.0 g/L	1+ - 4+		
Protein (PRO)	Negative	Negative	7-7	Positive	Positive	+		
Nitrite (NIT)	Negative	Negative		25 - 500 Leu/µl	25 - 500 Leu/µl	1+ - 3+		
Leukocytes (LEU)	Negative	5.0 - 7.0	5.0 - 7.0	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0		
pH	5.0 - 7.0	1.015 - 1.030	1.015 - 1.030	1.005 - 1.025	1.005 - 1.025	1.005 - 1.025		
Specific Gravity (SG)	1.015 – 1.030	1.015 = 1.030 10 = 30 mg/L	10 – 30 mg/L	80 – 150 mg/L	80 - 150 mg/L	80 – 150mg/L		
Microalbumin (ALB)	10 – 30 mg/L		10 – 100 mg/dL	100 – 300 mg/dL	8.8 - 26.5 mmol/L	100 - 300mg/dl		
Creatinine (CRE)	10 – 100 mg/dL	0.9 – 8.8 mmol/L	Normal	Abnormal	Abnomal	Abnormal		
Albumin-to-Creatinine Ratio	Normal	Normal	Normal	Abnormal	Abnomal	Abnormal		
Protein-to-Creatinine Ratio	Normal	Normal	Normai	Aprioritial				

\*The U120 QC set-up screen recognizes only arbitrary values

(LCD0187-05)



## **Liquid Urine Control**

Package Insert

REF U021-011

English

# For validating visual and analyzer reading of urinalysis. For in vitro diagnostic use only. INTENDED USE

The Liquid Urine Control is intended for use in validating the visual and analyzer reading of urinalysis. The results should be compared to the expected results listed below to ensure the consistent performance of Mission and Mission Expert Urinalysis Reagent Strips and Urine Analyzers. The Liquid Urine Control is available in two levels and is ready to use for monitoring routine urinalysis.

PRECAUTIONS

For in vitro diagnostic use only. Do not use after the expiration date.

All materials should be considered potentially hazardous and handled in the same manner as an infectious agent.

The used materials should be discarded according to local regulations after testing.

The used materials should be discarded according to local regulations after testing.

The use of quality control materials is an important part of good laboratory practices. Quality control materials are an objective method of assessing techniques or practices in use.

REAGENTS

The product is a liquid stable control prepared from simulated human urine with added chemicals, constituents of animal origin, preservatives and stabilizers. The control does not include human resource materials. Various pure chemicals are used to adjust each analyte level. Store and ship at 2-8°C (36-46°F). Do not freeze.
Controls are stable until the expiration date printed on the bottle label when stored at 2-8°C (36-46°F).
All analytes are stable for 30 days at 15-30°C (59-86°F) or until the expiration date at 2-8°C (36-46°F) once opened and stored with the cap on tightly.

MATERIALS

Provided:

Liquid Urine Control Level 1 and/or Level 2

Materials Required But Not Provided

DIRECTIONS FOR USE

Allow all test materials to reach room temperature (15-30°C or 59-86°F) prior to testing.

1. Invert the urine control bottle 3 times to ensure reproducible results, then remove the cap. While holding the urinalysis reagent strip, urinalysis reagent strip is completely saturated with urine control bottle to dispense the urine control. Ensure each reagent area on Mora.

Note:

Do not touch the tip of the urine control bottle to the reagent areas on the urinalysis reagent strip to avoid contamination.

Dispose of the hanging drop of urine control before turning the urine control bottle upright.

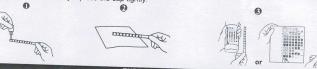
Dispose of the hanging drop of urine control to avoid contaminating the unused control with reagents from the urinalysis reagent strip. Hold the strip in a horizontal position and bring the edge of the strip into contact with an absorbent material (e.g. a paper towel) to avoid Compare the reagent areas and/or soiling hands with the urine control. See illustration 2 below blocks and match carefully. See illustration 3 below. blocks and match carefully. See Industration 3 Denow.

Note:

Results may be read up to 2 minutes after the specified times.

Results may also be read using the Mission® and Mission® Expert Urine Analyzers. Refer to the Instruction Manual for details.

4. Clean the dropper tip, and immediately replace the cap tightly.



### EXPECTED VALUES

The expected values listed on the following page should only be used for the specific lots printed. Expected values were obtained from replicate analysis. The urine control and urinalysis reagent strip lots can create slight differences in expected results. Different laboratory nethods, instruments and reagents can create variations between laboratories and variations over time. Use the results provided as reference only. It is recommended that each laboratory establish its own parameters of precision.

\*\*Note:\*\* The color reactions of Urobilinogen and Bilirubin reagent areas on the urinalysis reagent strips may produce colors that are atypical when visually compared to the color blocks on the color chart.

\*\*LIMITATIONS\*\*

The Mission® Liquid Urine Control can only be used with Mission® and Mission® Expert Urinalysis Reagent Strips and Urine Analyzers. Ensure variability of color perception, the presence or absence of inhibitory factors, and the lighting conditions when the strip is read. Each color block on the color chart does not correspond to a specific concentration, but it does correspond to a range of analytic concentrations.

		Index	of Symbols	arige of	arranyte conce	ntrations.
	Consult instructions for use	Σ	Tests per kit		AAA	Manufact
IVD	For in vitro diagnostic use only	T T				Manufacturer
U- 8.C		25	Use by		EC REP	Authorized Representative
2°C -	Store between 2-8°C	LOT	Lot Number	4	REF	Catalog #
					1	Catalog #



ACON Laboratories, Inc. 10125 Mesa Rim Road, San Diego, CA 92121, USA



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> Number: 1150529004 Effective date: 2013-02-16