

# Liquichek Urine Chemistry Control Levels 1 and 2

**REF** 397 Level 1 12 x 10 mL  
398 Level 2 12 x 10 mL  
395X MiniPak 2 x 10 mL

**CE** 0459

**IVD**

**EXP** 2027-06-30

**LOT** 1007100

Level 1 1007101  
Level 2 1007102



<https://www.myinserts.com/1007100>

## INTENDED USE

Liquichek Urine Chemistry Control is intended for use as an assayed quality control urine to monitor the precision of laboratory testing procedures for the analytes listed in this package insert.

## SUMMARY AND PRINCIPLE

The use of quality control materials is indicated as an objective assessment of the precision of methods and techniques in use and is an integral part of good laboratory practices. Multiple levels of control are available to allow monitoring of the test system's reliability.

For customers in Germany: Quality control materials are required for assessment of laboratory performance as described in the "Guideline for Quality Assurance of Medical Laboratory Examinations following the German Medical Association" (Rili-BÄK regulation).

## REAGENT

This product is prepared from human urine with added chemicals, constituents of human and animal origin, stabilizers and preservatives. This product is provided in liquid form for convenience.

## STORAGE AND STABILITY

This product will be stable until the expiration date when stored unopened at 2 to 8°C.

Once opened and stored tightly capped at 2 to 8°C, this product will be stable as follows:

- All analytes: 30 days

This product is shipped under refrigerated conditions.

## PROCEDURE

This product should be treated the same as patient specimens and run in accordance with the instructions accompanying the instrument, kit, or reagent being used.

Before sampling, allow this product to reach room temperature (18 to 25°C). Gently swirl the vial several times to ensure homogeneity. After each use promptly replace the stopper and return to 2 to 8°C storage.

## Safety Precautions

- Caution should be used when handling this product to prevent splashing. Wear appropriate eye/face protection when using this product to protect from splashes.
- If, during the use of this device or as a result of its use, a serious incident occurs, please report it to Bio-Rad Laboratories and to your national health authority, as required.
- Dispose of any discarded materials in accordance with the requirements of your local waste management authorities. In the event of damage to packaging, contact the local Bio-Rad Laboratories Sales Office or Bio-Rad Laboratories Technical Services.

## LIMITATIONS

1. This product should not be used past the expiration date.
2. If there is evidence of microbial contamination or excessive turbidity in the product, discard the vial.
3. This product is not intended for use as a standard.
4. Values may gradually decrease over the product shelf life for the following analyte: Creatinine. Individual laboratory means may eventually fall outside of the corresponding ranges printed in the data charts.
5. For Laboratory/Professional Use Only

## WARNING



**Biological source material. Treat as potentially infectious.**

The serum from each donor contributing urine for this product was tested as required by FDA accepted methods. Tests results were non-reactive or negative for evidence of infection due to Human Immunodeficiency Virus (HIV), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV). This product may also contain other human source materials for which there are no approved tests. In accordance with good laboratory practice, all human source material should be considered potentially infectious and handled with the same precautions used with patient specimens.

## Hazard (H) and Precautionary (P) Statements

**EUH208** Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone. May produce an allergic reaction.

Safety Data Sheet (SDS) available for professional users on [www.bio-rad.com](http://www.bio-rad.com).

## SPECIFIC PERFORMANCE CHARACTERISTICS

This product is a stabilized liquid product manufactured under rigid quality control standards. To obtain consistent assay values, the control requires proper storage and handling as described.

## ASSIGNMENT OF VALUES

The mean values and corresponding  $\pm 3SD$  ranges in the Assignment of Values Data Charts (available separately) were derived from replicate analyses and are specific for this lot of product. Data from Unity™ Interlaboratory Program are included in the determination of some ranges. The tests listed were performed by the manufacturer and/or independent laboratories using manufacturer supported reagents and a representative sampling of this lot of product. It is recommended that each laboratory establish its own acceptable ranges and use those provided only as guides. Laboratory established ranges may vary from those listed during the life of this control. [Customers in Germany have to follow the requirements as described in the Rili-BÄK regulation.] Variations over time and between laboratories may be caused by differences in laboratory technique, instrumentation and reagents, or by manufacturer test method modifications.

Unity™ Interlaboratory Program is a proprietary Bio-Rad software program holding more than 2 billion QC data points from thousands of laboratories.

## INSTRUCTIONS FOR OBTAINING THE DATA CHARTS

To obtain the Data Charts use the checkboxes on the Customize My Inserts page to select your chart items. You can View & Print your selections or Save Selections. Follow the directions on this website to receive email notifications of insert updates. Alternate methods for receiving data charts are available by contacting your local Bio-Rad Laboratories Office.

**ANALYTES**

Amylase	Glucose	Phosphorus	Specific Gravity
Calcium	Magnesium	Potassium	Urea
Chloride	Microalbumin	Pregnancy/hCG (Qualitative)	Urea Nitrogen (BUN)
Cortisol	Osmolality	Protein (Total)	Uric Acid
Creatinine	pH	Sodium	



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Revision Date 2025-10-03 → Indicates Revised Information

**METHOD (1)**

	Units (2)	Level 1 - 1007101 (3)		Level 2 - 1007102 (3)	
		Mean	Range	Mean	Range
<b>AMYLASE</b>					
Abbott Alinity c Analyzer	U/L	54.2	47.1 – 61.3	185	165 – 205
Roche/Hitachi Cobas c Systems (G7 PNP, Blocked)	U/L	57.9	50.2 – 65.6	198	176 – 219
<b>Siemens ADVIA Chemistry Systems (AMYLAS) →</b>	<b>U/L</b>	<b>▲</b>		<b>▲</b>	
<b>Siemens Atellica CI 1900 Analyzer (Amy_2) (CH) →</b>	<b>U/L</b>	<b>61.7</b>	<b>55.5 – 67.9</b>	<b>220</b>	<b>204 – 236</b>
<b>Siemens Atellica Solution (Amy_2) (CH) →</b>	<b>U/L</b>	<b>61.7</b>	<b>55.5 – 67.9</b>	<b>220</b>	<b>204 – 236</b>
Siemens Dimension Series (CNP-triose/CNPG3)	U/L	45.6	39.4 – 51.9	167	154 – 179
Siemens Dimension Vista Systems (CNP-triose/CNPG3)	U/L	51.0	47.0 – 55.0	172	161 – 183
<b>CALCIUM</b>					
Abbott Alinity c Analyzer	mg/dL	6.88	6.41 – 7.35	9.62	9.03 – 10.2
Abbott ARCHITECT cSystems (Arsenazo III) (Kit 3L79)	mg/dL	6.88	6.41 – 7.35	9.62	9.03 – 10.2
Beckman Coulter AU Systems (Arsenazo III)	mg/dL	7.22	6.54 – 7.89	10.4	9.50 – 11.4
Ortho Vitros MicroSlide Series (Arsenazo III)	mg/dL	7.36	6.69 – 8.04	10.2	9.35 – 11.1
Roche/Hitachi Cobas c Systems (BAPTA) (CA2)	mg/dL	7.22	6.63 – 7.82	10.3	9.57 – 11.0
Siemens ADVIA Chemistry Systems (CA, CA_c) (CPC)	mg/dL	7.35	6.45 – 8.25	10.6	9.57 – 11.7
Siemens ADVIA Chemistry Systems (CA_2, CA_2c) (Arsenazo III)	mg/dL	6.94	6.10 – 7.78	9.72	8.72 – 10.7
Siemens Atellica CI 1900 Analyzer (Ca) (CH)	mg/dL	6.83	5.66 – 8.00	10.3	9.04 – 11.6
Siemens Atellica CI 1900 Analyzer (Ca_2) (CH)	mg/dL	7.23	6.43 – 8.03	10.2	9.30 – 11.1
Siemens Atellica Solution (Ca) (CH)	mg/dL	6.83	5.66 – 8.00	10.3	9.04 – 11.6
Siemens Atellica Solution (Ca_2) (CH)	mg/dL	7.23	6.43 – 8.03	10.2	9.30 – 11.1
Siemens Dimension Series	mg/dL	7.51	6.86 – 8.16	10.7	9.91 – 11.5
Siemens Dimension Vista Systems	mg/dL	7.38	6.74 – 8.02	10.4	9.56 – 11.2
<b>CHLORIDE</b>					
Abbott Alinity c Analyzer	mEq/L	97.7	85.7 – 110	185	170 – 201
Abbott ARCHITECT cSystems (ISE Indirect)	mmol/L	97.7	85.7 – 110	185	170 – 201
Beckman Coulter AU Systems (ISE Indirect)	mEq/L	101	88.5 – 113	192	176 – 208
Ortho Vitros MicroSlide Series (ISE Direct)	mmol/L	100	94.5 – 105	183	173 – 193
Roche/Hitachi Cobas c Systems (ISE Indirect)	mEq/L	89.1	76.8 – 101	184	168 – 199
Siemens Atellica CI 1900 Analyzer (Cl) (CH)	mEq/L	101	88.6 – 113	186	170 – 201
Siemens Atellica Solution (Cl) (CH)	mEq/L	101	88.6 – 113	186	170 – 201
Siemens Dimension Series (ISE Indirect)	mEq/L	107	94.2 – 119	194	178 – 210
Siemens Dimension Vista Systems (ISE Indirect)	mEq/L	101	92.7 – 110	199	183 – 214
<b>CORTISOL</b>					
Abbott Alinity i Analyzer	µg/dL	3.98	3.01 – 4.95	27.7	23.5 – 31.9
Abbott ARCHITECT iSystems	µg/dL	3.98	3.01 – 4.95	27.7	23.5 – 31.9
Beckman Coulter Access / 2 / 2i	µg/dL	8.06	5.75 – 10.4	39.9	30.6 – 49.3
<b>Ortho Vitros MicroWell Series (6) →</b>	<b>µg/dL</b>	<b>▲</b>		<b>▲</b>	
Siemens ADVIA Centaur CP (COR) (Rgt. lots 019361-019364)	µg/dL	6.77	4.59 – 8.95	21.3	16.6 – 26.0
Siemens ADVIA Centaur CP (COR) (Rgt. lots 019367 and higher)	µg/dL	6.73	4.55 – 8.90	20.1	15.6 – 24.6
Siemens ADVIA Centaur Systems (COR) (Rgt. lots 019361-019364)	µg/dL	5.64	4.41 – 6.87	15.8	13.0 – 18.5
Siemens ADVIA Centaur Systems (COR) (Rgt. lots 019367 and higher)	µg/dL	5.87	4.61 – 7.14	15.4	12.7 – 18.2
Siemens Atellica CI 1900 Analyzer (Cor) (IM) (Rgt. lots 019361-019364)	µg/dL	6.01	4.17 – 7.85	15.2	11.8 – 18.5
Siemens Atellica CI 1900 Analyzer (Cor) (IM) (Rgt. lots 019367 and higher)	µg/dL	5.89	3.86 – 7.92	13.0	9.71 – 16.2
Siemens Atellica Solution (Cor) (IM) (Rgt. lots 019361-019364)	µg/dL	6.01	3.96 – 8.06	15.2	11.5 – 18.8

## METHOD (1)

	Units (2)	Level 1 - 1007101 (3)		Level 2 - 1007102 (3)	
		Mean	Range	Mean	Range
<b>CORTISOL (continued)</b>					
Siemens Atellica Solution (Cor) (IM) (Rgt. lots 019367 and higher)	µg/dL	5.89	3.86 – 7.92	13.0	9.71 – 16.2
<b>CREATININE</b>					
Abbott Alinity c Analyzer	mg/dL	63.7	56.1 – 71.4	151	128 – 175
Abbott Alinity c Analyzer (Crea2) (Kit 04T91)	mg/dL	62.9	50.4 – 75.3	154	128 – 180
Abbott Alinity c Analyzer (Enzymatic)	mg/dL	62.9	56.0 – 69.8	154	133 – 174
Abbott ARCHITECT cSystems (Alkaline picrate kinetic IDMS-traceable) (3L81)	mg/dL	63.7	56.1 – 71.4	151	128 – 175
Beckman Coulter AU Systems (Alkaline picrate)	mg/dL	67.3	55.7 – 78.9	158	130 – 185
Ortho Vitros MicroSlide Series (Enzymatic)	mg/dL	63.8	52.0 – 75.5	157	125 – 188
<b>Roche/Hitachi Cobas c Systems (Alkaline picrate) →</b>	<b>mg/dL</b>	<b>67.6</b>	<b>57.7 – 77.6</b>	<b>162</b>	<b>135 – 190</b>
Roche/Hitachi Cobas c Systems (Enzymatic)	mg/dL	67.8	59.8 – 75.8	165	142 – 188
Siemens ADVIA Chemistry Systems (CREA_2, CRE_2c)	mg/dL	65.3	54.1 – 76.6	150	120 – 179
Siemens ADVIA Chemistry Systems (ECre3)	mg/dL	65.2	56.5 – 74.0	161	134 – 187
Siemens Atellica Ci 1900 Analyzer (Crea_2) (CH)	mg/dL	62.7	51.8 – 73.5	150	121 – 180
Siemens Atellica Ci 1900 Analyzer (ECre3) (CH)	mg/dL	66.8	54.1 – 79.4	160	128 – 192
Siemens Atellica Solution (Crea_2) (CH)	mg/dL	62.7	51.8 – 73.5	150	121 – 180
Siemens Atellica Solution (ECre_2) (CH)	mg/dL	64.6	55.9 – 73.3	159	133 – 186
Siemens Atellica Solution (ECre3) (CH)	mg/dL	66.8	54.1 – 79.4	160	128 – 192
Siemens Dimension Series (CRE2)	mg/dL	60.5	51.3 – 69.6	155	129 – 182
Siemens Dimension Vista Systems (Alkaline picrate-kinetic rate blanked, IFCC-IDMS Standardized) (CRE2)	mg/dL	64.3	56.6 – 72.0	164	139 – 188
<b>GLUCOSE</b>					
Abbott Alinity c Analyzer	mg/dL	28.8	26.7 – 30.8	297	280 – 315
Abbott ARCHITECT cSystems (Hexokinase)	mg/dL	28.8	26.7 – 30.8	298	280 – 315
Ortho Vitros MicroSlide Series (Gluc Oxidase Trinder)	mg/dL	28.6	24.2 – 32.9	296	275 – 317
Roche/Hitachi Cobas c Systems (Hexokinase)	mg/dL	29.4	26.8 – 31.9	294	275 – 313
Siemens ADVIA Chemistry Systems (GLUO, GLUO_2) (Gluc Oxidase Trinder)	mg/dL	27.0	23.4 – 30.6	291	275 – 307
Siemens Atellica Ci 1900 Analyzer (GluH_3) (CH)	mg/dL	29.6	26.5 – 32.8	296	275 – 317
Siemens Atellica Ci 1900 Analyzer (GluO) (CH)	mg/dL	29.5	25.9 – 33.1	301	282 – 319
Siemens Atellica Solution (GluH_3) (CH)	mg/dL	29.6	26.5 – 32.8	296	275 – 317
Siemens Atellica Solution (GluO) (CH)	mg/dL	29.5	25.9 – 33.1	301	282 – 319
Siemens Dimension Series (Hexokinase)	mg/dL	29.8	25.5 – 34.1	297	278 – 317
Siemens Dimension Vista Systems (Hexokinase)	mg/dL	29.8	26.6 – 33.0	282	259 – 304
<b>MAGNESIUM</b>					
Abbott Alinity c Analyzer	mg/dL	4.20	3.18 – 5.21	8.98	7.44 – 10.5
Abbott ARCHITECT cSystem (Enzymatic) (3P68)	mg/dL	4.20	3.18 – 5.21	8.98	7.44 – 10.5
Beckman Coulter AU Systems (Xylidyl blue)	mg/dL	4.03	3.46 – 4.61	8.71	7.66 – 9.76
Ortho Vitros MicroSlide Series (Formazan dye)	mg/dL	3.48	2.35 – 4.60	8.82	7.58 – 10.1
Roche/Hitachi Cobas c Systems (Xylidyl blue) (MG2)	mg/dL	4.42	3.58 – 5.26	9.36	7.89 – 10.8
Siemens ADVIA Chemistry Systems (MG, MG_c) (Xylidyl blue)	mg/dL	3.65	2.70 – 4.60	6.64	5.36 – 7.91
Siemens Atellica Ci 1900 Analyzer (Mg) (CH)	mg/dL	4.02	3.26 – 4.78	8.76	7.42 – 10.1
Siemens Atellica Solution (Mg) (CH)	mg/dL	4.02	3.26 – 4.78	8.76	7.42 – 10.1
Siemens Dimension Series	mg/dL	4.15	3.79 – 4.52	8.88	8.21 – 9.55
Siemens Dimension Vista Systems	mg/dL	4.24	3.82 – 4.66	8.98	8.28 – 9.68
<b>MICROALBUMIN</b>					
Abbott Alinity c Analyzer	mg/dL	3.32	2.51 – 4.14	7.51	5.69 – 9.33
Abbott ARCHITECT cSystems	mg/dL	3.32	2.51 – 4.14	7.51	5.69 – 9.33

## METHOD (1)

	Units (2)	Level 1 - 1007101 (3)		Level 2 - 1007102 (3)	
		Mean	Range	Mean	Range
<b>MICROALBUMIN (continued)</b>					
Beckman Coulter AU Systems	mg/L	32.7	24.1 – 41.3	85.6	69.7 – 101
Beckman Coulter IMMAGE (Immunonephelometric)	mg/dL	1.61	1.17 – 2.04	6.40	4.75 – 8.06
Ortho Vitros MicroTip Series	mg/dL	1.57	1.14 – 2.00	5.02	4.07 – 5.97
Roche/Hitachi Cobas c Systems	mg/dL	3.83	2.73 – 4.92	7.02	5.28 – 8.76
<b>Siemens ADVIA Chemistry Systems (uALB_2) →</b>	<b>mg/dL</b>	<b>2.00</b>	<b>1.24 – 2.76</b>	<b>6.16</b>	<b>4.55 – 7.77</b>
<b>Siemens Atellica CI 1900 Analyzer (uALB_2) (CH) →</b>	<b>mg/dL</b>	<b>2.09</b>	<b>1.51 – 2.67</b>	<b>5.84</b>	<b>4.72 – 6.96</b>
<b>Siemens Atellica Solution (uALB_2) (CH) →</b>	<b>mg/dL</b>	<b>2.09</b>	<b>1.51 – 2.67</b>	<b>5.84</b>	<b>4.72 – 6.96</b>
Siemens BN Series Nephelometers (Immunonephelometric)	mg/dL	7.68	4.65 – 10.7	13.4	8.51 – 18.2
Siemens Dimension Series	mg/dL	1.11	0.569 – 1.65	4.14	3.49 – 4.78
Siemens Dimension Vista Systems (6)	mg/dL	8.95	7.61 – 10.3	12.1	10.3 – 13.9
<b>OSMOLALITY</b>					
Freezing Point Depression	mOsm/kg	437	420 – 455	806	776 – 836
<b>PH</b>					
Glass Electrode	No Units	6.15	6.12 – 6.18	6.24	6.21 – 6.27
<b>PHOSPHORUS</b>					
Abbott Alinity c Analyzer	mg/dL	22.7	20.3 – 25.1	44.9	41.3 – 48.4
Abbott Alinity c Analyzer (PHOS2 REF 04U03)	mg/dL	24.0	21.8 – 26.2	46.9	43.5 – 50.3
Abbott ARCHITECT cSystems (Phosphomolybdate-UV)	mg/dL	24.0	21.8 – 26.2	46.9	43.5 – 50.3
Beckman Coulter AU Systems (Phosphomolybdate-UV)	mg/dL	23.5	20.7 – 26.3	47.1	42.7 – 51.4
Ortho Vitros MicroSlide Series (Phosphomolybdate reduction)	mg/dL	25.8	22.4 – 29.2	49.2	44.0 – 54.3
Roche/Hitachi Cobas c Systems (Phosphomolybdate-UV)	mg/dL	23.5	21.0 – 26.0	47.3	42.9 – 51.7
Siemens ADVIA Chemistry Systems (IP, IP_c)	mg/dL	26.5	19.2 – 33.8	53.2	38.7 – 67.6
Siemens Atellica CI 1900 Analyzer (Inorganic) (IP) (CH)	mg/dL	25.1	20.7 – 29.5	49.7	41.9 – 57.6
Siemens Atellica Solution (IP) (CH)	mg/dL	25.1	20.7 – 29.5	49.7	41.9 – 57.6
Siemens Dimension Series (DF61A)	mg/dL	24.4	20.1 – 28.8	48.9	41.2 – 56.6
Siemens Dimension Vista Systems	mg/dL	23.2	20.1 – 26.4	44.7	39.9 – 49.4
<b>POTASSIUM</b>					
Abbott Alinity c Analyzer	mEq/L	30.9	29.2 – 32.6	68.9	65.4 – 72.3
Abbott ARCHITECT cSystems (ISE Indirect)	mEq/L	30.9	29.2 – 32.6	68.9	65.4 – 72.3
Beckman Coulter AU Systems (ISE Indirect)	mEq/L	31.2	28.6 – 33.8	70.7	65.1 – 76.3
Ortho Vitros MicroSlide Series (ISE Direct)	mEq/L	32.7	29.9 – 35.4	77.0	70.8 – 83.1
Roche/Hitachi Cobas c Systems (ISE Indirect)	mEq/L	31.7	29.7 – 33.6	71.6	66.1 – 77.1
Siemens Atellica CI 1900 Analyzer (K) (CH)	mEq/L	32.8	30.0 – 35.6	76.4	70.2 – 82.6
Siemens Atellica Solution (K) (CH)	mEq/L	32.8	30.0 – 35.6	76.4	70.2 – 82.6
Siemens Dimension Series (ISE indirect)	mEq/L	30.8	28.6 – 33.1	69.1	63.4 – 74.7
Siemens Dimension Vista Systems (ISE Indirect)	mEq/L	31.2	27.9 – 34.5	74.7	66.6 – 82.9
<b>PREGNANCY/HCG (QUALITATIVE) (4)</b>					
Beckman Coulter ICON II	Qualitative	Negative		Positive	
<b>PROTEIN (TOTAL)</b>					
Abbott Alinity c Analyzer	mg/dL	21.8	18.7 – 24.9	62.7	58.1 – 67.2
Abbott ARCHITECT cSystems (Benzethonium Chloride)	mg/dL	21.8	18.7 – 24.9	62.7	58.1 – 67.2
Beckman Coulter AU Systems (Pyrogallol Red) (OSR 6170)	mg/dL	21.8	18.5 – 25.1	64.1	57.8 – 70.5
Ortho Vitros MicroSlide Series (Pyrocatechol Violet)	mg/dL	36.9	28.1 – 45.7	80.4	62.2 – 98.5
Roche/Hitachi Cobas c Systems (TPUC3) (Benzethonium Chloride)	mg/dL	20.4	14.9 – 26.0	56.7	41.1 – 72.3
<b>Siemens ADVIA Chemistry Systems (UCFP) →</b>	<b>mg/dL</b>	<b>28.1</b>	<b>22.6 – 33.7</b>	<b>68.6</b>	<b>60.3 – 76.9</b>
Siemens Atellica CI 1900 Analyzer (UCFP) (CH)	mg/dL	28.9	25.0 – 32.8	71.1	63.4 – 78.8
Siemens Atellica Solution (UCFP) (CH)	mg/dL	28.9	25.0 – 32.8	71.1	63.4 – 78.8

## METHOD (1)

	Units (2)	Level 1 - 1007101 (3)		Level 2 - 1007102 (3)	
		Mean	Range	Mean	Range
<b>PROTEIN (TOTAL) (continued)</b>					
Siemens Dimension Series (Pyrogallol Red)	mg/dL	29.0	22.1 – 35.8	70.8	56.2 – 85.4
Siemens Dimension Vista Systems (Pyrogallol Red)	mg/dL	29.8	24.5 – 35.2	73.0	64.9 – 81.1
<b>SODIUM</b>					
Abbott Alinity c Analyzer	mEq/L	79.3	69.4 – 89.2	171	153 – 189
Abbott ARCHITECT cSystems (ISE Indirect)	mEq/L	79.3	69.4 – 89.2	171	153 – 189
Beckman Coulter AU Systems (ISE Indirect)	mEq/L	78.8	68.9 – 88.7	171	153 – 189
Ortho Vitros MicroSlide Series (ISE Direct)	mEq/L	84.1	73.1 – 95.1	183	166 – 200
Roche/Hitachi Cobas c Systems (ISE Indirect)	mEq/L	79.6	69.7 – 89.5	172	155 – 190
Siemens Atellica CI 1900 Analyzer (Na) (CH)	mEq/L	83.0	73.8 – 92.2	181	163 – 198
Siemens Atellica Solution (Na) (CH)	mEq/L	83.0	73.8 – 92.2	181	163 – 198
Siemens Dimension Series (ISE indirect)	mEq/L	78.2	69.1 – 87.3	165	148 – 183
Siemens Dimension Vista Systems (ISE Indirect)	mEq/L	72.6	64.8 – 80.4	149	135 – 164
<b>SPECIFIC GRAVITY</b>					
Refractometer	No Units	1.013	1.012 – 1.014	1.022	1.021 – 1.024
<b>UREA (5)</b>					
Abbott Alinity c Analyzer	mg/dL	904	814 – 994	1503	1371 – 1641
Abbott ARCHITECT cSystems	mg/dL	904	814 – 994	1503	1371 – 1641
Beckman Coulter AU Systems (Urease, GLDH)	mg/dL	904	814 – 994	1545	1389 – 1695
Ortho Vitros MicroSlide Series (Urease, colorimetric)	mg/dL	946	850 – 1042	1557	1395 – 1713
Roche/Hitachi Cobas c Systems (Urease, UV)	mg/dL	946	838 – 1054	1581	1407 – 1760
<b>Siemens ADVIA Chemistry Systems →</b>	<b>mg/dL</b>	<b>§</b>		<b>§</b>	
Siemens Atellica Solution (CH)	mg/dL	862	719 – 1000	1485	1263 – 1707
Siemens Dimension Series (Urease, UV)	mg/dL	958	802 – 1114	1641	1383 – 1898
<b>UREA NITROGEN (BUN) (5)</b>					
Abbott Alinity c Analyzer	mg/dL	424	382 – 466	704	641 – 768
Abbott ARCHITECT cSystems	mg/dL	424	382 – 466	704	641 – 768
Beckman Coulter AU Systems (Urease, GLDH)	mg/dL	423	380 – 465	721	650 – 792
Ortho Vitros MicroSlide Series (Urease, colorimetric)	mg/dL	442	397 – 487	727	654 – 800
Roche/Hitachi Cobas c Systems (Urease, UV)	mg/dL	443	392 – 494	740	657 – 823
<b>Siemens ADVIA Chemistry Systems (UN, UN_c) →</b>	<b>mg/dL</b>	<b>§</b>		<b>§</b>	
Siemens Atellica CI 1900 Analyzer (UN_c) (CH)	mg/dL	402	336 – 468	695	592 – 797
Siemens Atellica Solution (UN_c) (CH)	mg/dL	402	336 – 468	695	592 – 797
Siemens Dimension Series (Urease, UV)	mg/dL	447	374 – 520	767	647 – 888
Siemens Dimension Vista Systems (Urease, UV)	mg/dL	428	379 – 478	713	633 – 792
<b>URIC ACID</b>					
Abbott Alinity c Analyzer	mg/dL	9.57	7.67 – 11.5	19.0	16.4 – 21.7
Abbott Alinity c Analyzer (Uric2) (Kit 04U09)	mg/dL	9.00	7.19 – 10.8	19.5	16.8 – 22.2
Abbott ARCHITECT cSystems (Uric2) (Kit 04T13)	mg/dL	9.00	7.19 – 10.8	19.5	16.8 – 22.2
Beckman Coulter AU Systems (Uricase, colorimetric)	mg/dL	11.9	10.2 – 13.6	23.7	20.4 – 27.0
Ortho Vitros MicroSlide Series (Uricase, colorimetric)	mg/dL	7.90	6.02 – 9.78	18.4	15.7 – 21.2
Roche/Hitachi Cobas c Systems (Uricase, colorimetric)	mg/dL	9.07	7.89 – 10.3	18.8	16.8 – 20.9
Siemens ADVIA Chemistry Systems (UA, UA_c)	mg/dL	10.0	8.10 – 11.9	20.2	17.5 – 23.0
Siemens Atellica CI 1900 Analyzer (UA) (CH)	mg/dL	9.68	8.06 – 11.3	19.8	17.6 – 22.0
Siemens Atellica Solution (UA) (CH)	mg/dL	9.68	8.06 – 11.3	19.8	17.6 – 22.0
Siemens Dimension Series (Uricase, UV)	mg/dL	10.5	7.74 – 13.2	20.6	16.9 – 24.3
Siemens Dimension Vista Systems (Uricase, UV)	mg/dL	10.1	8.51 – 11.8	18.9	16.8 – 21.1

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**FOOTNOTES**

- (1) All footnotes may not apply to your custom selected data chart.
  - (2) All values expressed “per liter” are based on a 24-hour volume of 1 liter.
  - (3) A dilution should be made prior to running those tests where the value listed exceeds the highest standard.
  - (4) “Positive” indicates a positive qualitative result. “Negative” indicates a negative qualitative result.
  - (5) Conversion units:  
mg/dL Urea Nitrogen  $\times$  2.14 = mg/dL Urea.  
mg/dL Urea Nitrogen  $\times$  0.357 = mmol/L Urea.  
SI value ranges are expressed as Urea.
  - (6) The assigned values were determined using the reagent and/or instrument manufacturer’s protocol and may not represent  $\pm$ 3SD ranges.
- ▲ Data is not available at this time. Please inquire.
- § The data required to establish the means and acceptable ranges for this assay were not obtained due to limited assignment participation. If your facility is interested in participating in the Value Assignment Program for this assay, please contact your local Bio-Rad office.