



## Urine Chemistry

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
<b>Amylase - Urine Chemistry</b>								
<b>Initial Grouping by Method</b>								
Beckman AMY	1	79.7 - 148.0 P	113.82	15.54	188.6 - 350.3 P	269.45	39.55	11
Siemens Dimension	2	51.3 - 95.2 P	73.25	4.96	130.9 - 243.1 P	187.00	5.19	21
<b>Initial Grouping by Sensitivity or Principle</b>								
Moderate recovery methods	3	53.1 - 98.6 P	75.87	8.34	133.7 - 248.3 P	191.00	11.90	24
High recovery methods	4	78.4 - 145.6 P	112.00	16.10	186.8 - 346.9 P	266.83	38.78	12
<b>Total Population</b>								
Whole Population	5	54.0 - 100.2 P	77.10	13.83	133.9 - 248.7 P	191.33	26.68	49
<b>Calcium - Urine Chemistry</b>								
<b>Initial Grouping by Reagent</b>								
Beckman ISE	1	7.8 - 9.8 C	8.82	0.14	2.8 - 4.8 C	3.82	0.25	12
Siemens Dimension OCPC	2	8.1 - 10.1 C	9.09	0.25	4.0 - 6.0 C	4.96	0.24	22
<b>Initial Grouping by Sensitivity or Principle</b>								
Arsenazo-based	3	7.9 - 9.9 C	8.95	0.23	3.2 - 5.2 C	4.15	0.28	17
OCPC (o-cresolphth complex)	4	8.0 - 10.0 C	9.02	0.27	3.8 - 5.8 C	4.76	0.43	30
Other, electrochemical	5	7.8 - 9.8 C	8.82	0.14	2.8 - 4.8 C	3.82	0.25	12
<b>Total Population</b>								
Whole Population	6	7.9 - 9.9 C	8.93	0.26	3.4 - 5.4 C	4.35	0.54	63
<b>Chloride - Urine Chemistry</b>								
<b>Initial Grouping by Reagent and Instrument</b>								
Beckman dil ISE & Beckman Unicel DXC series	1	88.0 - 97.0 P	92.3	1.5	233.0 - 258.0 P	245.4	5.4	16
Siemens Dimen Xpand, EXL & Siemens Dimension EXL	2	106.0 - 117.0 P	111.2	6.7	248.0 - 274.0 P	261.0	8.7	10
<b>Initial Grouping by Reagent</b>								
Beckman dil ISE	3	88.0 - 97.0 P	92.3	1.5	232.0 - 256.0 P	244.0	6.3	21
Beckman Olympus dil ISE	4	98.0 - 108.0 P	103.0	2.3	249.0 - 275.0 P	261.9	5.3	10
Siemens Dimen Xpand, EXL	5	107.0 - 118.0 P	112.5	6.4	250.0 - 276.0 P	263.0	8.4	17
<b>Initial Grouping by Sensitivity or Principle</b>								

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Diluted ISE	6	96.0 - 106.0	P	100.9	10.0	242.0 - 267.0	P	254.3	10.8	60
<b>Total Population</b>										
Whole Population	7	97.0 - 107.0	P	102.1	10.4	242.0 - 268.0	P	254.8	10.7	69

### Creatinine - Urine Chemistry

#### Initial Grouping by Reagent and Instrument

Beckman Synchron & Beckman Unicel DXC series	1	66.3 - 89.8	P	78.05	2.47	185.1 - 250.5	P	217.81	5.26	11
Beckman Synchron IMDS trace & Beckman Unicel DXC series	2	65.6 - 88.8	P	77.19	1.29	180.1 - 243.7	P	211.92	5.72	13
Siemens Dimension & Siemens Dimension Xpand	3	56.5 - 76.4	P	66.46	1.49	160.7 - 217.5	P	189.09	4.92	17
Siemens Dimension & Siemens Dimension EXL	4	62.2 - 84.2	P	73.21	2.05	172.2 - 232.9	P	202.54	7.93	14

#### Initial Grouping by Method

Beckman Synchron	5	66.4 - 89.8	P	78.13	2.36	183.7 - 248.5	P	216.11	5.45	15
Beckman Synchron IMDS trace	6	65.2 - 88.2	P	76.73	1.69	179.2 - 242.5	P	210.84	6.02	15
J&J Vitros	7	53.2 - 71.9	P	62.55	5.41	154.5 - 209.1	P	181.79	16.25	17
Beckman Olympus	8	61.7 - 83.5	P	72.63	2.42	171.7 - 232.3	P	201.97	7.39	16
Siemens Dimension	9	59.5 - 80.5	P	69.98	3.99	166.3 - 224.9	P	195.60	10.80	49

#### Initial Grouping by Sensitivity or Principle

Chemiluminometric	10	60.7 - 82.2	P	71.46	5.67	169.5 - 229.3	P	199.41	13.54	135
<b>Total Population</b>										
Whole Population	11	60.3 - 81.5	P	70.90	5.97	168.0 - 227.2	P	197.61	14.72	149

### Glucose - Urine Chemistry

#### Initial Grouping by Reagent

Siemens Dimension HK	1	18.0 - 30.0	C	23.5	1.4	244.0 - 298.0	P	270.8	3.8	16
----------------------	---	-------------	---	------	-----	---------------	---	-------	-----	----

#### Initial Grouping by Sensitivity or Principle

HexoKinase (HK) low recov	2	18.0 - 30.0	C	24.3	1.4	246.0 - 300.0	P	273.1	6.8	30
---------------------------	---	-------------	---	------	-----	---------------	---	-------	-----	----

#### Total Population

Whole Population	3	19.0 - 31.0	C	24.9	1.7	249.0 - 304.0	P	276.5	9.0	43
------------------	---	-------------	---	------	-----	---------------	---	-------	-----	----

### Magnesium - Urine Chem

Whole Population	1	3.3 - 5.4	P	4.33	0.48	6.6 - 11.0	P	8.76	0.62	29
------------------	---	-----------	---	------	------	------------	---	------	------	----

### Osmolality - Urine Chemistry

Whole Population	1	383.0 - 468.0	P	425.2	3.0	814.0 - 995.0	P	904.1	7.3	8
------------------	---	---------------	---	-------	-----	---------------	---	-------	-----	---

### Phosphorous - Urine Chemistry

#### Initial Grouping by Reagent

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Siemens Dimension UV/bic/SB	1	17.0 - 23.0	C	19.9	1.0	58.0 - 79.0	P	68.4	3.3	17
<b>Initial Grouping by Sensitivity or Principle</b>										
UV-bichromatic-sam blanked	2	17.0 - 23.0	C	19.8	1.0	57.0 - 78.0	P	67.6	3.7	21
<b>Total Population</b>										
Whole Population	3	17.0 - 23.0	C	19.7	1.1	57.0 - 76.0	P	66.5	3.5	41

### Potassium - Urine Chemistry

<b>Initial Grouping by Reagent and Instrument</b>										
Beckman dil ISE & Beckman Unicel DXC series	1	20.0 - 27.0	P	23.0	0.5	86.0 - 116.0	P	100.7	1.6	21
Siemens Dimen Xpand, ExL & Siemens Dimension Xpand	2	20.0 - 27.0	P	23.1	0.5	86.0 - 117.0	P	101.6	2.0	12
Siemens Dimen Xpand, ExL & Siemens Dimension EXL	3	20.0 - 26.0	P	23.0	0.0	85.0 - 115.0	P	100.4	1.9	12
<b>Initial Grouping by Reagent</b>										
Beckman dil ISE	4	20.0 - 26.0	P	23.0	0.5	86.0 - 116.0	P	101.0	1.6	25
J&J Vitros und ISE	5	19.0 - 26.0	P	22.2	0.8	93.0 - 125.0	P	109.0	3.8	16
Beckman Olympus dil ISE	6	20.0 - 28.0	P	24.0	0.9	90.0 - 122.0	P	106.0	2.6	10
Siemens Dimen Xpand, ExL	7	20.0 - 26.0	P	23.0	0.6	86.0 - 116.0	P	100.7	2.3	32
<b>Initial Grouping by Sensitivity or Principle</b>										
Diluted ISE results	8	21.0 - 28.0	P	24.4	9.9	85.0 - 116.0	P	100.5	9.3	80
Undiluted ISE results	9	19.0 - 26.0	P	22.2	0.8	90.0 - 122.0	P	105.7	6.8	23
<b>Total Population</b>										
Whole Population	10	19.0 - 26.0	P	22.9	0.9	87.0 - 118.0	P	102.5	4.6	106

### Sodium - Urine Chemistry

<b>Initial Grouping by Reagent and Instrument</b>										
Beckman dil ISE & Beckman Unicel DXC series	1	87.0 - 95.0	C	90.8	1.7	184.0 - 200.0	P	192.1	3.7	22
Siemens Dimen Xpand, ExL & Siemens Dimension Xpand	2	84.0 - 92.0	C	87.9	0.7	177.0 - 192.0	P	184.8	1.6	13
Siemens Dimen Xpand, ExL & Siemens Dimension EXL	3	84.0 - 92.0	C	88.2	1.4	178.0 - 193.0	P	185.4	2.6	12
<b>Initial Grouping by Reagent</b>										
Beckman dil ISE	4	87.0 - 95.0	C	90.8	1.6	184.0 - 200.0	P	192.1	3.4	26
J&J Vitros und ISE	5	89.0 - 97.0	C	93.2	3.5	191.0 - 206.0	P	198.4	5.4	16
Beckman Olympus dil ISE	6	87.0 - 95.0	C	90.8	1.7	191.0 - 206.0	P	198.5	2.7	10
Siemens Dimen Xpand, ExL	7	84.0 - 92.0	C	88.0	1.2	177.0 - 191.0	P	184.1	2.8	33
<b>Initial Grouping by Sensitivity or Principle</b>										
Diluted ISE	8	86.0 - 94.0	C	90.0	3.6	183.0 - 198.0	P	190.6	7.3	82
Undiluted ISE	9	87.0 - 95.0	C	91.1	4.4	185.0 - 200.0	P	192.5	10.4	23
<b>Total Population</b>										

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Whole Population	10	86.0 - 94.0	C	90.1	3.9	183.0 - 198.0	P	190.8	8.1	108

### Protein, Total - Urine Chemistry

#### Initial Grouping by Reagent and Instrument

Beckman Coulter M-TP & Beckman Unicel DXC series	1	11.2 - 18.7	P	14.98	1.22	70.7 - 117.9	P	94.32	3.65	17
Siemens Dimension & Siemens Dimension Xpand	2	13.3 - 22.2	P	17.75	0.78	67.5 - 112.5	P	90.03	1.76	17
Siemens Dimension & Siemens Dimension EXL	3	13.2 - 22.0	P	17.60	0.70	67.8 - 113.0	P	90.38	1.20	12

#### Initial Grouping by Reagent

Beckman LX series	4	11.3 - 18.9	P	15.10	2.15	70.9 - 118.1	P	94.49	6.75	11
Beckman Coulter M-TP	5	11.3 - 18.8	P	15.04	1.14	70.5 - 117.5	P	94.02	3.46	20
J&J Vitros unc	6	16.5 - 27.5	P	22.00	1.59	82.2 - 137.0	P	109.61	7.97	21
Beckman Olympus	7	9.4 - 15.6	P	12.47	0.75	65.6 - 109.4	P	87.52	5.24	14
Siemens Dimension	8	13.5 - 22.5	P	17.98	0.86	67.9 - 113.2	P	90.53	1.59	44

#### Initial Grouping by Sensitivity or Principle

Bichromatic-sample blanked	9	13.3 - 22.2	P	17.73	1.42	67.8 - 112.9	P	90.34	1.78	46
Pyrogallol red	10	10.2 - 16.9	P	13.55	1.98	67.9 - 113.2	P	90.56	5.96	43
Rate	11	11.2 - 18.7	P	14.95	1.81	70.6 - 117.7	P	94.14	5.52	17
Uncorrected	12	16.5 - 27.5	P	22.00	1.59	82.2 - 137.0	P	109.61	7.97	21

#### Total Population

Whole Population	13	12.0 - 20.0	P	16.00	2.79	69.4 - 115.7	P	92.59	8.55	144
------------------	----	-------------	---	-------	------	--------------	---	-------	------	-----

### Urea Nitrogen - Urine Chemistry

#### Initial Grouping by Reagent

J&J Vitros	1	294.0 - 352.0	P	323.3	9.9	580.0 - 695.0	P	637.3	17.2	11
Siemens Dimension GLDH-rate	2	341.0 - 408.0	P	374.8	21.5	657.0 - 786.0	P	721.6	43.5	20

#### Initial Grouping by Sensitivity or Principle

Ammonia (NH3) diffusion	3	294.0 - 352.0	P	323.3	9.9	580.0 - 695.0	P	637.3	17.2	11
Glutamate DH-rate methods	4	332.0 - 398.0	P	365.2	22.6	634.0 - 760.0	P	697.1	46.2	40

#### Total Population

Whole Population	5	324.0 - 388.0	P	356.1	26.8	623.0 - 746.0	P	684.4	47.8	53
------------------	---	---------------	---	-------	------	---------------	---	-------	------	----

### Uric Acid - Urine Chemistry

#### Initial Grouping by Reagent

Siemens Dimension	1	3.8 - 5.4	P	4.61	0.74	5.8 - 8.2	P	7.02	0.73	19
-------------------	---	-----------	---	------	------	-----------	---	------	------	----

#### Initial Grouping by Sensitivity or Principle

Endpt-corrected(bic or SB)	2	3.7 - 5.2	P	4.44	0.99	5.0 - 7.1	P	6.08	0.60	15
Rate	3	4.2 - 5.9	P	5.06	0.98	6.3 - 8.8	P	7.54	1.00	28

#### Total Population

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD		Range & Type	Mean	SD		
Whole Population	4	3.9 - 5.5	P	4.69	0.88	5.8 - 8.1	P	6.97	1.10	50