

# **MEDICAL LABORATORY EVALUATION**

## **PARTICIPANT SUMMARY**

# **2 • 0 • 1 • 2**

**Please see the corresponding US participant summary for any statistics not represented in this supplement.**



Total Commitment to Education and Service  
Provided by ACP, Inc.

**International Data Supplement  
MLE-M2**

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## 2012 Evaluation Criteria

The evaluation criteria used in the 2012 MLE Program is in accordance with the Clinical Laboratory Improvement Amendments of 1988 (CLIA '88) federal requirements for proficiency testing. The criteria are included below.

### Qualitative

For qualitative procedures, evaluation is based on participant or referee consensus. A minimum percentage of participants must receive a passing score or the challenge is not evaluated due to lack of consensus. These percentages are listed below.

Blood Bank	95% Consensus
Antimicrobial Susceptibility Testing	80% Consensus
Cytomegalovirus	80% Consensus
Microalbumin (Semi-Quantitative)	80% Consensus
Parasite Identification	80% Consensus
Rubella	80% Consensus
Syphilis Serology	80% Consensus
Toxoplasma	80% Consensus
Urine Dipstick	80% Consensus
Urine hCG	80% Consensus
Viral Markers	80% Consensus

### Quantitative

For quantitative procedures, a mean and standard deviation (SD) are calculated for each peer group consisting of 10 or more laboratories. Acceptable performance is established based on a target value  $\pm$  the intervals below. An explanation on how to calculate the range of acceptability based upon these limits is also provided in your MLE Program Guide on page 37 under the heading "Acceptable Ranges for Quantitative Results."

Activated Partial Thromboplastin Time	$\pm$ 15 percent
CK-MB (U/L)	$\pm$ 3 SD
Cytomegalovirus	$\pm$ 3 SD
Fibrinogen	$\pm$ 20 percent
International Normalized Ratio (INR)	$\pm$ 3 SD
Prothrombin Time	$\pm$ 15 percent
Rubella	$\pm$ 3 SD
Specific Gravity	$\pm$ 0.010
Toxoplasma	$\pm$ 3 SD

## BLOOD BANK

### ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-6	Group O	118	100%	Acceptable
BB-7	Group AB	116	99.15%	Acceptable
	Group O	1	0.85%	
BB-8	Group A	117	100%	Acceptable
BB-9	Group A	116	100%	Acceptable
BB-10	Group B	118	100%	Acceptable

### RH FACTOR (D TYPE)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-6	Rh Negative	118	100%	Acceptable
BB-7	Rh Positive	115	98.29%	Acceptable
	Negative	2	1.71%	
BB-8	Rh Positive	117	100%	Acceptable
BB-9	Rh Negative	116	100%	Acceptable
BB-10	Rh Negative	118	100%	Acceptable

### ANTIBODY DETECTION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-6	Unexpected antibody detected	77	97.47%	Acceptable
	No unexpected antibody detect	2	2.53%	
AB-7	No unexpected antibody detect	78	98.73%	Acceptable
	Unexpected antibody detected	1	1.27%	
AB-8	Unexpected antibody detected	75	94.94%	Acceptable
	No unexpected antibody detect	4	5.06	
AB-9	No unexpected antibody detect	77	97.47%	Acceptable
	Unexpected antibody detected	2	2.53%	
AB-10	Unexpected antibody detected	75	96.15%	Acceptable
	No unexpected antibody detect	3	3.85%	

## BLOOD BANK

### ANTIBODY IDENTIFICATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-6	Anti-K	37	94.87%	Acceptable
	Unable to identify, referred	1	2.56%	
	Anti-E	1	2.56%	
AB-7	No antibody detected	39	100%	Acceptable
AB-8	Anti-Jk(a)	35	89.74%	Acceptable
	Unable to identify, referred	2	5.13%	
	Anti-Jk(b)	1	2.56%	
	Anti-D	1	2.56%	
AB-9	No antibody detected	39	100%	Acceptable
AB-10	Anti-C	35	89.74%	Acceptable
	No antibody detected	3	7.69%	
	Unable to identify, referred	1	2.56%	

Specimen AB-10 was graded by 100% referee consensus.

### COMPATIBILITY TESTING

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-6	Compatible	77	97.47%	Acceptable
	Not Compatible	2	2.53%	
AB-7	Compatible	79	100%	Acceptable
AB-8	Not Compatible	76	96.20%	Acceptable
	Compatible	3	3.80%	
AB-9	Compatible	79	100%	Acceptable
AB-10	Compatible	78	100%	Acceptable

## Coagulation

### PROTHROMBIN TIME (seconds)

<u>Reagent/Instrument</u>	Specimen CG-6						Specimen CG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	12.12	1.26	10.4	12.0	10.3 - 14.0	132	15.18	1.48	9.7	15.0	12.9 - 17.5
Dade Innovin												
Sysmex CA-500/560	27	10.94	0.26	2.4	11.0	9.2 - 12.6	25	14.17	0.32	2.3	14.2	12.0 - 16.3
All Coagulation Instruments	31	10.92	0.30	2.8	11.0	9.2 - 12.6	30	14.12	0.37	2.6	14.1	12.0 - 16.3
Diag Stago STA Neoplastine CI+												
Diagnostica Stago STA Compact	5	13.20	1.12	8.5	12.7	11.2 - 15.2	5	16.36	1.65	10.1	15.8	13.9 - 18.9
RAL Clot-SP	10	13.03	0.50	3.8	13.2	11.0 - 15.0	10	16.14	0.46	2.8	16.3	13.7 - 18.6
All Coagulation Instruments	19	13.12	0.77	5.9	12.8	11.1 - 15.1	18	16.02	0.50	3.1	16.1	13.6 - 18.5
IL TEST PT Fibrinogen												
IL ACL, all models	22	11.75	0.39	3.3	11.8	9.9 - 13.6	22	14.79	0.52	3.5	14.8	12.5 - 17.1
IL TEST PT-FIB HS PLUS												
IL ACL, all models	23	13.40	0.51	3.8	13.4	11.3 - 15.5	22	16.74	0.40	2.4	16.8	14.2 - 19.3
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	12.02	1.29	10.8	11.6	10.2 - 13.9	5	14.70	1.87	12.7	14.1	12.4 - 17.0
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	11.10	0.32	2.9	10.9	9.4 - 12.8	5	13.46	0.50	3.7	13.5	11.4 - 15.5
All Coagulation Instruments	8	11.24	0.40	3.5	11.2	9.5 - 13.0	8	13.64	0.67	4.9	13.5	11.5 - 15.7

**PROTHROMBIN TIME (seconds)**

<u>Reagent/Instrument</u>	Specimen CG-8						Specimen CG-9						
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	132	28.66	5.56	19.4	28.4	24.3 - 33.0	132	42.45	10.5	7	24.9	41.3	36.0 - 48.9
Dade Innovin													
Sysmex CA-500/560	27	27.83	1.10	4.0	27.8	23.6 - 32.1	27	39.62	1.95	4.9	39.5	33.6 - 45.6	
All Coagulation Instruments	33	27.82	1.12	4.0	27.8	23.6 - 32.0	33	39.74	1.90	4.8	39.5	33.7 - 45.8	
Diag Stago STA Neoplastine CI+													
Diagnostica Stago STA Compact	4	-	-	-	31.9	27.2 - 36.9	4	-	-	-	49.9	41.9 - 56.8	
RAL Clot-SP	10	32.41	1.40	4.3	32.2	27.5 - 37.3	10	49.42	2.47	5.0	49.0	42.0 - 56.9	
All Coagulation Instruments	17	32.07	1.90	5.9	32.1	27.2 - 36.9	16	49.36	3.26	6.6	49.0	41.9 - 56.8	
IL TEST PT Fibrinogen													
IL ACL, all models	22	22.02	0.93	4.2	22.2	18.7 - 25.4	22	29.85	1.60	5.4	30.2	25.3 - 34.4	
IL TEST PT-FIB HS PLUS													
IL ACL, all models	23	35.60	1.37	3.8	35.6	30.2 - 41.0	23	55.31	2.83	5.1	55.5	47.0 - 63.7	
PH/CMS Thromboplastin-D													
All Coagulation Instruments	5	24.04	5.13	21.3	21.8	20.4 - 27.7	5	30.84	1.62	5.2	30.3	26.2 - 35.5	
TriniCLOT PT Excel													
OTC Coag-A-Mate XM	5	20.34	1.91	9.4	20.4	17.2 - 23.4	5	28.40	1.59	5.6	27.8	24.1 - 32.7	
All Coagulation Instruments	8	21.59	4.47	20.7	20.3	18.3 - 24.9	8	30.26	7.77	25.7	27.7	25.7 - 34.9	



**PROTHROMBIN TIME (seconds)**

<u>Reagent/Instrument</u>	Specimen CG-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	135	12.33	1.28	10.4	11.9	10.4 - 14.2
Dade Innovin						
Sysmex CA-500/560	27	11.42	0.34	3.0	11.4	9.7 - 13.2
All Coagulation Instruments	31	11.37	0.40	3.5	11.4	9.6 - 13.1
Diag Stago STA Neoplastine Cl+						
Diagnostica Stago STA Compact	5	13.46	1.04	7.7	13.2	11.4 - 15.5
RAL Clot-SP	10	13.06	0.41	3.2	13.0	11.1 - 15.1
All Coagulation Instruments	19	13.30	0.77	5.8	13.1	11.3 - 15.3
IL TEST PT Fibrinogen						
IL ACL, all models	22	11.76	0.42	3.6	11.9	9.9 - 13.6
IL TEST PT-FIB HS PLUS						
IL ACL, all models	23	13.84	0.50	3.6	13.8	11.7 - 16.0
PH/CMS Thromboplastin-D						
All Coagulation Instruments	5	11.38	0.37	3.3	11.5	9.6 - 13.1
TriniCLOT PT Excel						
OTC Coag-A-Mate XM	5	11.18	0.28	2.5	11.1	9.5 - 12.9
All Coagulation Instruments	8	11.16	0.23	2.0	11.1	9.4 - 12.9

**PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)**

<b><u>Reagent/Instrument</u></b>	<b>Specimen CG-6</b>						<b>Specimen CG-7</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	134	0.99	0.09	9.4	1.0	0.7 - 1.3	132	1.34	0.14	10.2	1.3	0.9 - 1.8
Dade Innovin												
Sysmex CA-500/560	27	1.04	0.06	5.5	1.0	0.8 - 1.3	28	1.37	0.10	7.4	1.4	1.0 - 1.7
All Coagulation Instruments	32	1.04	0.06	5.4	1.0	0.8 - 1.3	33	1.38	0.10	7.0	1.4	1.0 - 1.7
Diag Stago STA Neoplastine CI+												
RAL Clot-SP	10	0.99	0.03	3.2	1.0	0.8 - 1.1	10	1.30	0.07	5.1	1.3	1.1 - 1.5
All Coagulation Instruments	17	0.97	0.06	6.1	1.0	0.7 - 1.2	18	1.29	0.11	8.2	1.3	0.9 - 1.7
IL TEST PT Fibrinogen												
IL ACL, all models	22	0.97	0.06	6.5	1.0	0.7 - 1.2	22	1.44	0.09	6.3	1.5	1.1 - 1.8
IL TEST PT-FIB HS PLUS												
IL ACL, all models	23	0.93	0.12	12.7	0.9	0.5 - 1.3	23	1.24	0.14	11.6	1.2	0.8 - 1.7
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	1.13	0.23	20.6	1.1	0.4 - 1.9	6	1.63	0.45	27.3	1.5	0.2 - 3.0
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	0.94	0.05	5.8	0.9	0.7 - 1.2	5	1.30	0.12	9.4	1.3	0.9 - 1.7
All Coagulation Instruments	8	0.94	0.05	5.5	0.9	0.7 - 1.1	8	1.33	0.12	8.8	1.3	0.9 - 1.7

**PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)**

<b><u>Reagent/Instrument</u></b>	<b>Specimen CG-8</b>						<b>Specimen CG-9</b>					
	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	133	2.92	0.40	13.6	2.9	1.7 - 4.2	132	4.77	0.90	18.8	4.7	2.0 - 7.5
Dade Innovin												
Sysmex CA-500/560	28	2.71	0.11	4.2	2.7	2.3 - 3.1	28	3.90	0.20	5.1	3.9	3.3 - 4.6
All Coagulation Instruments	33	2.72	0.12	4.6	2.7	2.3 - 3.1	33	3.91	0.20	5.1	3.9	3.3 - 4.6
Diag Stago STA Neoplastine CI+												
RAL Clot-SP	10	3.33	0.22	6.5	3.3	2.6 - 4.0	10	5.86	0.41	7.0	5.8	4.6 - 7.1
All Coagulation Instruments	18	3.36	0.48	14.2	3.3	1.9 - 4.8	16	5.86	0.60	10.2	5.7	4.0 - 7.7
IL TEST PT Fibrinogen												
IL ACL, all models	22	2.90	0.13	4.6	2.9	2.4 - 3.3	22	4.93	0.33	6.8	4.9	3.9 - 6.0
IL TEST PT-FIB HS PLUS												
IL ACL, all models	23	2.92	0.32	11.1	3.0	1.9 - 3.9	23	4.86	0.57	11.8	5.0	3.1 - 6.6
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	4.22	1.88	44.6	3.6	0.0 - 9.9	6	6.82	0.82	12.0	6.8	4.3 - 9.3
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	2.60	0.50	19.2	2.6	1.1 - 4.1	5	4.48	0.65	14.4	4.3	2.5 - 6.5
All Coagulation Instruments	8	2.91	1.04	35.7	2.6	0.0 - 6.1	8	4.63	0.96	20.8	4.2	1.7 - 7.6

**PROTHROMBIN TIME-INTERNATIONAL NORMALIZED RATIO (INR)**

**Specimen CG-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	1.02	0.09	8.8	1.0	0.7 - 1.3
Dade Innovin						
Sysmex CA-500/560	26	1.10	0.00	0.0	1.1	1.1 - 1.1
All Coagulation Instruments	29	1.10	0.00	0.0	1.1	1.1 - 1.1
Diag Stago STA Neoplastine CI+						
RAL Clot-SP	10	1.01	0.03	3.1	1.0	0.9 - 1.2
All Coagulation Instruments	18	1.03	0.10	9.3	1.0	0.7 - 1.4
IL TEST PT Fibrinogen						
IL ACL, all models	22	0.96	0.07	7.5	1.0	0.7 - 1.2
IL TEST PT-FIB HS PLUS						
IL ACL, all models	23	0.99	0.11	11.6	1.0	0.6 - 1.4
PH/CMS Thromboplastin-D						
All Coagulation Instruments	6	1.02	0.04	4.0	1.0	0.8 - 1.2
TriniCLOT PT Excel						
OTC Coag-A-Mate XM	5	0.96	0.05	5.7	1.0	0.7 - 1.2
All Coagulation Instruments	8	0.95	0.05	5.6	1.0	0.7 - 1.2

**ACTIVATED PARTIAL THROMBOPLASTIN (seconds)**

<u>Reagent/Instrument</u>	<b>Specimen CG-6</b>						<b>Specimen CG-7</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	75	28.5	2.4	8.4	28	24 - 33	75	38.5	4.9	12.7	39	32 - 45
Dade Actin FSL												
Sysmex CA-500/560	19	27.3	1.4	5.3	27	23 - 32	18	32.3	1.2	3.8	32	27 - 38
All Coagulation Instruments	20	27.4	1.5	5.3	27	23 - 32	19	32.6	1.6	4.9	32	27 - 38
IL TEST APTT-SP												
IL ACL, all models	31	27.3	1.3	4.7	27	23 - 32	31	39.6	2.1	5.3	39	33 - 46
All Coagulation Instruments	32	27.4	1.4	5.1	27	23 - 32	32	39.8	2.4	5.9	39	33 - 46
<u>Reagent/Instrument</u>	<b>Specimen CG-8</b>						<b>Specimen CG-4</b>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	68	50.9	5.9	11.7	49	43 - 59	67	71.8	7.2	10.0	70	61 - 83
Dade Actin FSL												
Sysmex CA-500/560	19	49.9	2.8	5.6	49	42 - 58	18	71.3	2.7	3.8	72	60 - 82
All Coagulation Instruments	20	50.4	3.5	7.0	50	42 - 58	19	71.8	3.4	4.8	72	61 - 83
IL TEST APTT-SP												
IL ACL, all models	31	47.6	2.2	4.7	48	40 - 55	31	67.2	3.2	4.8	67	57 - 78
All Coagulation Instruments	32	47.7	2.3	4.8	48	40 - 55	32	67.3	3.2	4.7	67	57 - 78
<u>Reagent/Instrument</u>	<b>Specimen CG-10</b>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	76	33.2	2.3	6.9	33	28 - 39						
Dade Actin FSL												
Sysmex CA-500/560	18	32.6	0.8	2.4	33	27 - 38						
All Coagulation Instruments	19	32.7	0.9	2.9	33	27 - 38						
IL TEST APTT-SP												
IL ACL, all models	31	32.3	1.3	4.0	32	27 - 38						
All Coagulation Instruments	32	32.3	1.3	4.0	32	27 - 38						

**FIBRINOGEN (mg/dL)**

Specimen CG-6							Specimen CG-7					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	328.3	37.5	11.4	331	262 - 394	29	137.2	19.7	14.3	137	109 - 165
IL TEST PT-FIB HS PLUS												
IL ACL, all models	20	332.2	30.4	9.2	333	265 - 399	19	144.1	18.1	12.5	144	115 - 173

  

Specimen CG-8							Specimen CG-9					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	356.6	63.8	17.9	350	285 - 428	29	358.1	59.7	16.7	369	286 - 430
IL TEST PT-FIB HS PLUS												
IL ACL, all models	20	381.2	46.9	12.3	388	304 - 458	19	393.0	35.1	8.9	400	314 - 472

  

Specimen CG-10						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	551.4	87.2	15.8	574	441 - 662
IL TEST PT-FIB HS PLUS						
IL ACL, all models	20	565.6	60.6	10.7	580	452 - 679

**URINALYSIS DIPSTICK–SPECIFIC GRAVITY****Specimen UA-2**

<b><u>Method</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
All Method	344	1.0216	0.0066	0.6	1.021	1.011 - 1.032
All Bayer Instruments	30	1.0295	0.0014	0.1	1.030	1.019 - 1.040
All Roche Instruments	118	1.0158	0.0039	0.4	1.015	1.005 - 1.026
Arkray Aution Sticks	28	1.0200	0.0031	0.3	1.020	1.009 - 1.030
Bayer Clinitek Advantus	17	1.0291	0.0020	0.2	1.030	1.019 - 1.040
Roche Chemstrips / Combur	16	1.0138	0.0023	0.2	1.015	1.003 - 1.024
Roche cobas u 411	48	1.0145	0.0023	0.2	1.015	1.004 - 1.025
Roche Miditron Junior/II	12	1.0129	0.0054	0.5	1.015	1.002 - 1.023
Roche Urisys	53	1.0174	0.0045	0.4	1.020	1.007 - 1.028
SD UroColor Reagent Strips	12	1.0292	0.0020	0.2	1.030	1.019 - 1.040
UriScan Reagent Strips	56	1.0274	0.0027	0.3	1.028	1.017 - 1.038

**URINALYSIS DIPSTICK-pH**

**Specimen UA-2**

*Participant Results*

<u>Method</u>	<u>Labs</u>	<u>3.5 or less</u>	<u>4.0</u>	<u>4.5</u>	<u>5.0</u>	<u>5.5</u>	<u>6.0</u>	<u>6.5</u>	<u>7.0</u>	<u>7.5</u>	<u>8.0</u>	<u>8.5</u>	<u>9.0</u>
ALL METHODS	359	-	1	-	27	29	262	35	4	-	1	-	-
Acon Laboratories	1	-	-	-	-	-	1	-	-	-	-	-	-
Arkray Aution Jet	1	-	-	-	-	1	-	-	-	-	-	-	-
Arkray Aution Sticks	27	-	-	-	-	5	22	-	-	-	-	-	-
Arkray PocketChem UA	2	-	-	-	-	1	1	-	-	-	-	-	-
Bayer Clinitek 500	8	-	-	-	-	-	7	1	-	-	-	-	-
Bayer Clinitek Advantus	18	-	-	-	-	-	17	1	-	-	-	-	-
Bayer Clinitek Atlas	2	-	-	-	-	-	2	-	-	-	-	-	-
Bayer Clinitek Status / Status+	5	-	-	-	-	3	2	-	-	-	-	-	-
Bayer Multistix Pro	1	-	-	-	-	-	1	-	-	-	-	-	-
Bayer Reagent Strips	17	-	-	-	-	3	10	4	-	-	-	-	-
Combi-Screen Test Strips	1	-	-	-	1	-	-	-	-	-	-	-	-
CYBOW Urine Reagent Strips	2	-	-	-	-	-	2	-	-	-	-	-	-
DIRUI H-800 Urine Analyzer	8	-	-	-	-	-	7	-	1	-	-	-	-
Erba Mannheim Uro-dipcheck 400e	6	-	-	-	-	1	5	-	-	-	-	-	-
HUMAN Combilyzer	1	-	-	-	-	-	1	-	-	-	-	-	-
HUMAN COMBINA Test Strips	6	-	1	-	1	1	2	1	-	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	-	-	-	-	-	2	-	-	-	-	-	-
Iris Diagnostics iChem 100	2	-	-	-	-	1	1	-	-	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	-	1	-	-	-	-	-	-
Other Analyzer Method	9	-	-	-	-	-	8	1	-	-	-	-	-
Other Dipstick Method	2	-	-	-	-	-	2	-	-	-	-	-	-
pH Paper	1	-	-	-	-	-	-	1	-	-	-	-	-
Plasmatec URIPATH	1	-	-	-	-	-	1	-	-	-	-	-	-
Roche Chemstrips / Combur	20	-	-	-	-	1	19	-	-	-	-	-	-
Roche cobas u 411	49	-	-	-	1	-	43	3	1	-	1	-	-
Roche Miditron Junior/II	11	-	-	-	-	-	10	1	-	-	-	-	-
Roche Mini UA	1	-	-	-	-	-	1	-	-	-	-	-	-
Roche SuperUA/ChemstripUA	5	-	-	-	-	-	5	-	-	-	-	-	-
Roche Urilux S	1	-	-	-	-	-	1	-	-	-	-	-	-
Roche Urisys	53	-	-	-	17	-	30	5	1	-	-	-	-
SD UroColor Reagent Strips	12	-	-	-	1	-	4	7	-	-	-	-	-
TECO URS Strips	1	-	-	-	-	-	-	1	-	-	-	-	-
THME UDC-2020	1	-	-	-	-	-	1	-	-	-	-	-	-
UriScan Pro/II	4	-	-	-	-	-	3	1	-	-	-	-	-
UriScan Reagent Strips	56	-	-	-	3	11	36	5	1	-	-	-	-
URIT Medical Uritest Analyzers	3	-	-	-	-	-	2	1	-	-	-	-	-



**URINALYSIS DIPSTICK-PROTEIN QUALITATIVE**

**Specimen UA-2**

**Participant Results**

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>30mg/dL (1+)</u>	<u>100 mg/dL (2+)</u>	<u>300-500mg/dL (3+)</u>	<u>&gt;300mg/dl</u>	<u>≥1000mg/dL (4+)</u>
ALL METHODS	360	357	1	-	2	-	-	-
Acon Laboratories	1	1	-	-	-	-	-	-
Arkray Aution Jet	1	1	-	-	-	-	-	-
Arkray Aution Sticks	27	27	-	-	-	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-	-	-
Bayer Clinitek 500	8	8	-	-	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-	-	-	-
Bayer Clinitek Status / Status+	6	6	-	-	-	-	-	-
Bayer Multistix Pro	1	1	-	-	-	-	-	-
Bayer Reagent Strips	16	16	-	-	-	-	-	-
Combi-Screen Test Strips	1	1	-	-	-	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-	-	-	-
DIRUI H-800 Urine Analyzer	8	7	-	-	1	-	-	-
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-	-	-	-
HUMAN Combilyzer	2	2	-	-	-	-	-	-
HUMAN COMBINA Test Strips	5	5	-	-	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-	-	-
Other Analyzer Method	9	9	-	-	-	-	-	-
Other Dipstick Method	2	2	-	-	-	-	-	-
Plasmatec URIPATH	1	1	-	-	-	-	-	-
Roche Chemstrips / Combur	21	21	-	-	-	-	-	-
Roche cobas u 411	49	48	-	-	1	-	-	-
Roche Miditron Junior/II	11	11	-	-	-	-	-	-
Roche Mini UA	1	1	-	-	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-	-	-
Roche Urilux S	1	1	-	-	-	-	-	-
Roche Urisys	53	53	-	-	-	-	-	-
SD UroColor Reagent Strips	12	12	-	-	-	-	-	-
TECO URS Strips	1	1	-	-	-	-	-	-
THME UDC-2020	1	1	-	-	-	-	-	-
UriScan Pro/II	4	4	-	-	-	-	-	-
UriScan Reagent Strips	56	55	1	-	-	-	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-	-	-	-

**URINALYSIS DIPSTICK–GLUCOSE**

**Specimen UA-2**

**Participant Results**

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>50-100 mg/dL (Trace)</u>	<u>150 mg/dL</u>	<u>250 mg/dL</u>	<u>500 mg/dL</u>	<u>1000 mg/dL</u>	<u>&gt;1000 mg/dL</u>	<u>≥2000 mg/dL</u>
ALL METHODS	360	360	-	-	-	-	-	-	-
Acon Laboratories	1	1	-	-	-	-	-	-	-
Arkray Aution Jet	1	1	-	-	-	-	-	-	-
Arkray Aution Sticks	27	27	-	-	-	-	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-	-	-	-
Bayer Clinitek 500	9	9	-	-	-	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-	-	-	-	-
Bayer Clinitek Status / Status+	6	6	-	-	-	-	-	-	-
Bayer Multistix Pro	1	1	-	-	-	-	-	-	-
Bayer Reagent Strips	17	17	-	-	-	-	-	-	-
Combi-Screen Test Strips	1	1	-	-	-	-	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-	-	-	-	-
DIRUI H-800 Urine Analyzer	8	8	-	-	-	-	-	-	-
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-	-	-	-	-
HUMAN Combilyzer	1	1	-	-	-	-	-	-	-
HUMAN COMBINA Test Strips	6	6	-	-	-	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-	-	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-	-	-	-
Other Analyzer Method	7	7	-	-	-	-	-	-	-
Other Dipstick Method	2	2	-	-	-	-	-	-	-
Plasmatec URIPATH	1	1	-	-	-	-	-	-	-
Roche Chemstrips / Combur	21	21	-	-	-	-	-	-	-
Roche cobas u 411	47	47	-	-	-	-	-	-	-
Roche Miditron Junior/II	11	11	-	-	-	-	-	-	-
Roche Mini UA	1	1	-	-	-	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-	-	-	-
Roche Urilux S	1	1	-	-	-	-	-	-	-
Roche Urisys	54	54	-	-	-	-	-	-	-
SD UroColor Reagent Strips	12	12	-	-	-	-	-	-	-
TECO URS Strips	1	1	-	-	-	-	-	-	-
THME UDC-2020	1	1	-	-	-	-	-	-	-
UriScan Pro/II	4	4	-	-	-	-	-	-	-
UriScan Reagent Strips	55	55	-	-	-	-	-	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-	-	-	-	-

**URINALYSIS DIPSTICK–KETONES**

**Specimen UA-2**

**Participant Results**

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace (5 mg/dL)</u>	<u>Small (1+, 15 mg/dL)</u>	<u>Moderate (2+, 40 mg/dL)</u>	<u>Large (3+, 80 mg/dL)</u>	<u>150 mg/dL</u>	<u>≥ 160 mg/dL</u>
ALL METHODS	359	357	-	1	1	-	-	-
Acon Laboratories	1	1	-	-	-	-	-	-
Arkray Aution Jet	1	1	-	-	-	-	-	-
Arkray Aution Sticks	27	27	-	-	-	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-	-	-
Bayer Clinitek 500	9	9	-	-	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-	-	-	-
Bayer Clinitek Status / Status+	6	6	-	-	-	-	-	-
Bayer Multistix Pro	1	1	-	-	-	-	-	-
Bayer Reagent Strips	16	16	-	-	-	-	-	-
Combi-Screen Test Strips	1	1	-	-	-	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-	-	-	-
DIRUI H-800 Urine Analyzer	7	6	-	1	-	-	-	-
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-	-	-	-
HUMAN Combilyzer	1	1	-	-	-	-	-	-
HUMAN COMBINA Test Strips	6	6	-	-	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-	-	-
Other Analyzer Method	9	9	-	-	-	-	-	-
Other Dipstick Method	2	2	-	-	-	-	-	-
Plasmatec URIPATH	1	1	-	-	-	-	-	-
Roche Chemstrips / Combur	20	20	-	-	-	-	-	-
Roche cobas u 411	47	46	-	-	1	-	-	-
Roche Miditron Junior/II	12	12	-	-	-	-	-	-
Roche Mini UA	1	1	-	-	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-	-	-
Roche Urilux S	1	1	-	-	-	-	-	-
Roche Urisys	54	54	-	-	-	-	-	-
SD UroColor Reagent Strips	12	12	-	-	-	-	-	-
TECO URS Strips	1	1	-	-	-	-	-	-
THME UDC-2020	1	1	-	-	-	-	-	-
UriScan Pro/II	4	4	-	-	-	-	-	-
UriScan Reagent Strips	56	56	-	-	-	-	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-	-	-	-

**URINALYSIS DIPSTICK–BILIRUBIN**

**Specimen UA-2**

**Participant Results**

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	346	345	1	-	-
Acon Laboratories	1	1	-	-	-
Arkray Aution Jet	1	1	-	-	-
Arkray Aution Sticks	27	27	-	-	-
Arkray PocketChem UA	2	2	-	-	-
Bayer Clinitek 500	9	9	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-
Bayer Clinitek Status / Status+	5	5	-	-	-
Bayer Multistix Pro	1	1	-	-	-
Bayer Reagent Strips	5	5	-	-	-
Combi-Screen Test Strips	1	1	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-
DIRUI H-800 Urine Analyzer	8	8	-	-	-
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-
HUMAN Combilyzer	1	1	-	-	-
HUMAN COMBINA Test Strips	6	6	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-
Other Analyzer Method	7	7	-	-	-
Other Dipstick Method	3	3	-	-	-
Plasmatec URIPATH	1	1	-	-	-
Roche Chemstrips / Combur	20	20	-	-	-
Roche cobas u 411	48	48	-	-	-
Roche Miditron Junior/II	11	11	-	-	-
Roche Mini UA	1	1	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-
Roche Urilux S	1	1	-	-	-
Roche Urisys	53	52	1	-	-
SD UroColor Reagent Strips	12	12	-	-	-
TECO URS Strips	1	1	-	-	-
THME UDC-2020	1	1	-	-	-
UriScan Pro/II	4	4	-	-	-
UriScan Reagent Strips	56	56	-	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-

**URINALYSIS DIPSTICK–UROBILINOGEN**

**Specimen UA-2**

*Participant Results*

<u>Method</u>	<u>Labs</u>	<u>0.2/Normal mg/dL</u>	<u>1.0 mg/dL</u>	<u>2.0 mg/dL</u>	<u>4.0 mg/dL</u>	<u>&gt;8.0 mg/dL</u>
ALL METHODS	347	343	-	1	3	-
Acon Laboratories	1	1	-	-	-	-
Arkray Aution Jet	1	1	-	-	-	-
Arkray Aution Sticks	27	27	-	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-
Bayer Clinitek 500	8	8	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-	-
Bayer Clinitek Status / Status+	5	5	-	-	-	-
Bayer Multistix Pro	1	1	-	-	-	-
Bayer Reagent Strips	6	6	-	-	-	-
Combi-Screen Test Strips	1	1	-	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-	-
DIRUI H-800 Urine Analyzer	8	8	-	-	-	-
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-	-
HUMAN Combilyzer	1	1	-	-	-	-
HUMAN COMBINA Test Strips	6	6	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
Other Analyzer Method	8	6	-	-	2	-
Other Dipstick Method	2	2	-	-	-	-
Plasmatec URIPATH	1	1	-	-	-	-
Roche Chemstrips / Combur	20	20	-	-	-	-
Roche cobas u 411	47	47	-	-	-	-
Roche Mditron Junior/II	12	12	-	-	-	-
Roche Mini UA	1	1	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-
Roche Urilux S	1	1	-	-	-	-
Roche Urisys	53	53	-	-	-	-
SD UroColor Reagent Strips	12	12	-	-	-	-
TECO URS Strips	1	1	-	-	-	-
THME UDC-2020	1	1	-	-	-	-
UriScan Pro/II	4	4	-	-	-	-
UriScan Reagent Strips	56	55	-	1	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-	-

**URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN**

**Specimen UA-2**

*Participant Results*

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	359	355	2	-	-	2
Acon Laboratories	1	1	-	-	-	-
Arkray Aution Jet	1	1	-	-	-	-
Arkray Aution Sticks	28	28	-	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-
Bayer Clinitek 500	8	8	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-	-
Bayer Clinitek Status / Status+	6	6	-	-	-	-
Bayer Multistix Pro	1	1	-	-	-	-
Bayer Reagent Strips	16	16	-	-	-	-
Combi-Screen Test Strips	1	1	-	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-	-
DIRUI H-800 Urine Analyzer	8	7	-	-	-	1
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-	-
HUMAN Combilyzer	1	1	-	-	-	-
HUMAN COMBINA Test Strips	6	6	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
Other Analyzer Method	9	9	-	-	-	-
Other Dipstick Method	2	2	-	-	-	-
Plasmatec URIPATH	1	1	-	-	-	-
Roche Chemstrips / Combur	20	20	-	-	-	-
Roche cobas u 411	47	46	-	-	-	1
Roche Miditron Junior/II	12	12	-	-	-	-
Roche Mini UA	1	1	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-
Roche Urilux S	1	1	-	-	-	-
Roche Urisys	54	54	-	-	-	-
SD UroColor Reagent Strips	11	11	-	-	-	-
TECO URS Strips	1	1	-	-	-	-
THME UDC-2020	1	1	-	-	-	-
UriScan Pro/II	3	3	-	-	-	-
UriScan Reagent Strips	56	56	-	-	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-	-

**URINALYSIS DIPSTICK–LEUKOCYTE ESTERASE**

**Specimen UA-2**

**Participant Results**

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	344	338	2	2	-	2
Acon Laboratories	1	1	-	-	-	-
Arkray Aution Jet	1	1	-	-	-	-
Arkray Aution Sticks	27	26	1	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-
Bayer Clinitek 500	8	8	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-
Bayer Clinitek Atlas	2	2	-	-	-	-
Bayer Clinitek Status / Status+	5	5	-	-	-	-
Bayer Multistix Pro	1	1	-	-	-	-
Bayer Reagent Strips	5	5	-	-	-	-
Combi-Screen Test Strips	1	1	-	-	-	-
CYBOW Urine Reagent Strips	2	2	-	-	-	-
DIRUI H-800 Urine Analyzer	8	7	-	-	-	1
Erba Mannheim Uro-dipcheck 400e	6	6	-	-	-	-
HUMAN Combilyzer	1	1	-	-	-	-
HUMAN COMBINA Test Strips	6	6	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	2	-	-	-	-
Iris Diagnostics iChem 100	2	2	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
Other Analyzer Method	8	8	-	-	-	-
Other Dipstick Method	2	2	-	-	-	-
Plasmatec URIPATH	1	1	-	-	-	-
Roche Chemstrips / Combur	20	20	-	-	-	-
Roche cobas u 411	48	47	-	-	-	1
Roche Miditron Junior/II	11	11	-	-	-	-
Roche Mini UA	1	1	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-
Roche Urilux S	1	1	-	-	-	-
Roche Urisys	54	53	-	1	-	-
SD UroColor Reagent Strips	12	11	-	1	-	-
TECO URS Strips	1	1	-	-	-	-
THME UDC-2020	1	1	-	-	-	-
UriScan Pro/II	4	4	-	-	-	-
UriScan Reagent Strips	56	56	-	-	-	-
URIT Medical Uritest Analyzers	3	3	-	-	-	-

**URINALYSIS DIPSTICK–NITRITE**

**Specimen UA-2**

*Participant Results*

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	346	3	343
Acon Laboratories	1	-	1
Arkray Aution Jet	1	-	1
Arkray Aution Sticks	27	-	27
Arkray PocketChem UA	2	-	2
Bayer Clinitek 500	8	-	8
Bayer Clinitek Advantus	18	-	18
Bayer Clinitek Atlas	2	-	2
Bayer Clinitek Status / Status+	5	-	5
Bayer Multistix Pro	1	-	1
Bayer Reagent Strips	5	-	5
Combi-Screen Test Strips	1	-	1
CYBOW Urine Reagent Strips	2	-	2
DIRUI H-800 Urine Analyzer	8	1	7
Erba Mannheim Uro-dipcheck 400e	6	-	6
HUMAN Combilyzer	1	-	1
HUMAN COMBINA Test Strips	6	-	6
Iris Diagnostics Aution Max AX-4280	2	-	2
Iris Diagnostics iChem 100	2	-	2
Iris Diagnostics vChem Urine Strips	1	-	1
Other Analyzer Method	8	-	8
Other Dipstick Method	2	-	2
Plasmatec URIPATH	1	-	1
Roche Chemstrips / Combur	20	-	20
Roche cobas u 411	47	1	46
Roche Mditron Junior/II	11	-	11
Roche Mini UA	1	-	1
Roche SuperUA/ChemstripUA	5	-	5
Roche Urilux S	1	-	1
Roche Urisys	54	-	54
SD UroColor Reagent Strips	12	-	12
TECO URS Strips	1	-	1
THME UDC-2020	1	-	1
UriScan Pro/II	4	-	4
UriScan Reagent Strips	56	1	55
URIT Medical Uritest Analyzers	3	-	3



**URINALYSIS –MICROALBUMIN (dipstick only)**

**Specimen UA-2**

*Participant Results*

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L(Pos)</u>	<u>20/30 mg/L</u>	<u>50 mg/L (+)</u>	<u>80 mg/L</u>	<u>100 mg/L (++)</u>	<u>150 mg/L</u>
ALL METHODS	21	9	11	1	-	-	-	-
Bayer Clinitek Microalbumin	14	3	11	-	-	-	-	-
Roche Micral - 1 minute	5	4	-	1	-	-	-	-

**URINALYSIS –URINE hCG**

**Specimen UA-2**

*Participant Results*

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	69	-	69
Acon Laboratories	16	-	16
Biotron 1-Step	5	-	5
Inverness Acceva hCG-Urine	1	-	1
Inverness Clearview hCG Cassette	1	-	1
Inverness Clearview25 hCG Combo	1	-	1
Quidel QuickVue One-Step Combo	20	-	20
Stanbio QuStick	1	-	1

**ANTIMICROBIAL SUSCEPTIBILITY TESTING**

**Specimen SUS-6**

<u>Antimicrobial</u>	-----Disk Diffusion-----				-----MIC-----				<u>Acceptable (%)</u>
	<u>Interpretative category data</u>				<u>Interpretative category data</u>				
	<u>Labs</u>	<u>S</u>	<u>I</u>	<u>R</u>	<u>Labs</u>	<u>S</u>	<u>I</u>	<u>R</u>	
Amikacin	16	14	-	2	6	6	-	-	90.91%
Amoxicillin/Clavulanate	24	21	-	3	34	34	-	-	95.45%
Ampicillin	12	1	1	10	31	5	3	23	86.68%
Ampicillin/Sulbactam	12	10	-	2	32	32	-	-	96.00%
Aztreonam	2	1	-	1	2	2	-	-	Inappropriate drug <sup>1</sup>
Cefaclor	5	5	-	-	2	2	-	-	100.00%
Cefamandole	-	-	-	-	1	1	-	-	Not graded <sup>2</sup>
Cefazolin	4	4	-	-	14	14	-	-	100.00%
Cefepime	7	7	-	-	7	7	-	-	100.00%
Cefixime	6	2	1	3	1	-	-	1	Inappropriate drug <sup>1</sup>
Cefoperazone	2	2	-	-	1	1	-	-	Not graded <sup>2</sup>
Cefotaxime	12	12	-	-	5	5	-	-	100.00%
Cefotetan	-	-	-	-	2	2	-	-	Not graded <sup>2</sup>
Cefoxitin	14	14	-	-	10	10	-	-	100.00%
Cefpodoxime	2	2	-	-	2	2	-	-	Not graded <sup>2</sup>
Ceftazidime	9	7	2	-	1	1	-	-	81.82%
Ceftizoxime	1	1	-	-	3	3	-	-	Not graded <sup>2</sup>
Ceftriaxone	18	18	-	-	30	29	-	1	98.11%
Cefuroxime	20	20	-	-	6	6	-	-	100.00%
Cephalexin	3	3	-	-	3	3	-	-	Inappropriate drug <sup>1</sup>
Cephalothin	7	7	-	-	3	3	-	-	100.00%
Ciprofloxacin	37	36	1	-	91	89	1	1	97.79%
Clindamycin	24	24	-	-	81	79	-	2	98.28%
Daptomycin	1	1	-	-	29	29	-	-	100.00%
Doxycycline	4	4	-	-	3	3	-	-	100.00%
Ertapenem	1	1	-	-	2	1	-	1	Not graded <sup>2</sup>
Erythromycin	3	3	-	-	22	22	-	-	Inappropriate drug <sup>1</sup>
Fosfomycin	3	3	-	-	1	1	-	-	Inappropriate drug <sup>1</sup>
Gatifloxacin	-	-	-	-	1	1	-	-	Not graded <sup>2</sup>
Gentamicin	30	28	-	2	97	97	-	-	98.55%

<sup>1</sup> This is an inappropriate drug for this organism and/or source.

<sup>2</sup> This is an ungraded challenge due to lack of comparison group.

**ANTIMICROBIAL SUSCEPTIBILITY TESTING (cont'd)**

**Specimen SUS-6**

<u>Antimicrobial</u>	-----Disk Diffusion-----				-----MIC-----				<u>Acceptable (%)</u>
	<u>Labs</u>	<u>S</u>	<u>I</u>	<u>R</u>	<u>Labs</u>	<u>S</u>	<u>I</u>	<u>R</u>	
Imipenem	9	9	-	-	8	8	-	-	100.00%
Kanamycin	-	-	-	-	1	1	-	-	Not graded <sup>2</sup>
Levofloxacin	17	17	-	-	81	81	-	-	100.00%
Linezolid	13	13	-	-	86	86	-	-	100.00%
Lomefloxacin	1	1	-	-	1	1	-	-	Not graded <sup>2</sup>
Meropenem	6	6	-	-	4	4	-	-	100.00%
Methicillin	3	3	-	-	6	6	-	-	100.00%
Minocycline	1	1	-	-	44	44	-	-	100.00%
Moxifloxacin	7	7	-	-	57	56	-	1	98.55%
Nalidixic Acid	2	-	-	2	-	-	-	-	Inappropriate drug <sup>1</sup>
Netilmicin	4	4	-	-	-	-	-	-	Not graded <sup>2</sup>
Nitrofurantoin	24	22	1	1	84	84	-	-	98.26%
Norfloxacin	16	16	-	-	4	4	-	-	100.00%
Ofloxacin	10	10	-	-	5	5	-	-	100.00%
Oxacillin	28	23	-	5	102	102	-	-	96.45%
Penicillin	19	2	1	16	37	3	-	34	90.63%
Piperacillin	1	-	-	1	-	-	-	-	Not graded <sup>2</sup>
Piperacillin/Tazobactam	4	4	-	-	3	3	-	-	100.00%
Quinupristin/Dalfopristin	1	1	-	-	34	34	-	-	100.00%
Rifampin	15	15	-	-	79	73	5	1	92.23%
Sulfisoxazole	-	-	-	-	2	2	-	-	Not graded <sup>2</sup>
Teicoplanin	5	4	1	-	42	41	-	1	95.74%
Tetracycline	19	19	-	-	87	86	-	1	99.12%
Ticarcillin/Clavulanate	-	-	-	-	3	3	-	-	Not graded <sup>2</sup>
Tigecycline	3	3	-	-	6	6	-	-	Inappropriate drug <sup>1</sup>
Tobramycin	6	5	-	1	2	2	-	-	87.50%
Trimethoprim	1	1	-	-	4	4	-	-	100.00%
Trimethoprim/Sulfamethoxazole	33	33	-	-	106	106	-	-	100.00%
Vancomycin	21	19	-	2	91	90	-	1	96.75%

Organism present in specimen SUS-6: *Staphylococcus aureus*.

**PARASITOLOGY (PA Specimens)**

**Specimen PA-6**

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
No parasite seen	5	71.43%	Unacceptable
Diphyllobothrium latum	1	14.29%	Unacceptable
Giardia lamblia	1	14.29%	Unacceptable

Parasite present in specimen PA-6: *Dientamoeba fragilis*. (Graded exclusively to US Consensus)

**Specimen PA-7**

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
No parasite seen	4	57.14%	Acceptable
Balantidium coli	1	14.29%	
Cryptosporidium sp., oocysts	1	14.29%	
Entamoeba histolytica	1	14.29%	

Parasite present in specimen PA-7: No parasite present. (Graded exclusively to US Consensus)

## PARASITOLOGY (PA Specimens) cont'd

### Specimen PA-8

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Ascaris lumbricoides eggs	14	82.35%	Acceptable
Hymenolepis nana eggs	1	5.88%	
Schistosoma mansoni eggs	1	5.88%	
Trichuris trichiura eggs	1	5.88%	

Parasite present in specimen PA-8: *Ascaris lumbricoides* eggs.

### Specimen PA-9

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Taenia sp. eggs	12	80.00%	Acceptable
Ascaris lumbricoides eggs	1	6.67%	
Blastocystis hominis	1	6.67%	
Schistosoma haematobium eggs	1	6.67%	

Parasite present in specimen PA-9: *Taenia sp.* eggs.

**PARASITOLOGY (PA Specimens) cont'd**

**Specimen PA-10**

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Strongyloides stercoralis larvae	12	85.71%	Acceptable
Enterobius vermicularis eggs	1	7.14%	
Hookworm	1	7.14%	

Parasite present in specimen PA-10: *Strongyloides stercoralis* larvae.

## PARASITOLOGY (FP Specimens)

### Specimen FP-6

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Giardia lamblia	239	70.92%	Acceptable
Endolimax nana	31	9.20%	
Entamoeba histolytica	21	6.23%	
No parasite seen	19	5.64%	
Blastocystis hominis	18	5.34%	
Entamoeba coli	4	1.19%	
Ascaris lumbricoides eggs	3	0.89%	
Strongyloides stercoralis larvae	1	0.30%	
Trichuris trichiura eggs	1	0.30%	

Parasite present in specimen FP-6: *Giardia lamblia*.

### Specimen FP-7

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
No parasite seen	248	93.58%	Acceptable
Endolimax nana	5	1.89%	
Hookworm	3	1.13%	
Ascaris lumbricoides eggs	2	0.75%	
Strongyloides stercoralis larvae	2	0.75%	
Taenia sp. eggs	1	0.38%	
Parasite larva seen but no ID	1	0.38%	
Blastocystis hominis	1	0.38%	
Schistosoma japonicum eggs	1	0.38%	
Entamoeba coli	1	0.38%	

Parasite present in specimen FP-7: No parasite present.

## PARASITOLOGY (FP Specimens)

### Specimen FP-8

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Hookworm	224	81.16%	Acceptable
No parasite seen	10	3.62%	
Trichostrongylus sp. eggs	8	2.90%	
Parasite egg seen but no ID	8	2.90%	
Enterobius vermicularis eggs	5	1.81%	
Strongyloides stercoralis larvae	5	1.81%	
Entamoeba histolytica	3	1.09%	
Ascaris lumbricoides eggs	2	0.72%	
Blastocystis hominis	2	0.72%	
Diphyllobothrium latum	1	0.36%	
Entamoeba coli	1	0.36%	
Hymenolepis diminuta eggs	1	0.36%	
Iodamoeba butschlii	1	0.36%	
Paragonimus westermani eggs	1	0.36%	
Taenia sp. eggs	1	0.36%	
Clonorchis sinensis	1	0.36%	
Parasite larva seen but no ID	1	0.36%	
Other parasite seen but no ID	1	0.36%	

Parasite present in specimen FP-8: *Hookworm eggs*.



## PARASITOLOGY (FP Specimens)

### Specimen FP-9

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Diphyllobothrium latum	159	58.24%	Acceptable
Parasite egg seen but no ID	5	1.83%	Acceptable
Other parasite seen but no ID	1	0.37%	Acceptable
Fasciola hepatica eggs	34	12.45%	
Ascaris lumbricoides eggs	20	7.33%	
No parasite seen	13	4.76%	
Paragonimus westermani eggs	11	4.03%	
Endolimax mana	7	2.56%	
Hookworm	6	2.20%	
Schistosoma sp. eggs, NOS	4	1.47%	
Clonorchis sinensis	4	1.47%	
Entamoeba histolytica	3	1.10%	
Trichostrongylus sp. eggs	2	0.73%	
Trichuris trichiura eggs	1	0.37%	
Hymenolepis nana eggs	1	0.37%	
Enterobius vermicularis eggs	1	0.37%	
Blastocystis hominis	1	0.37%	

Parasite present in specimen FP-9: *Diphyllobothrium latum*. This challenge was graded by 91% referee lab consensus.

### Specimen FP-10

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Plasmodium vivax	186	70.72%	Acceptable
Plasmodium sp., NOS	57	21.67%	Acceptable
Plasmodium sp., not falciparum	2	0.76%	Acceptable
Plasmodium ovale	8	3.04%	
Plasmodium falciparum	5	1.90%	
No parasite seen	3	1.14%	
Plasmodium malariae	2	0.76%	

Parasite present in specimen FP-10: *Plasmodium vivax*.

**Rubella—Qualitative**

<u>Method</u>	Specimen RU-6		Specimen RU-7		Specimen RU-8	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	15	-	15	-	-	15
Abbott Architect	2	-	2	-	-	2
Bayer ADVIA Centaur	2	-	2	-	-	2
bioMerieux Vidas, Mini Vidas	2	-	2	-	-	2
Roche cobas 6000 / e 601	1	-	1	-	-	1
Roche cobas e 411	1	-	1	-	-	1
Roche Elecsys 1010 / 2010	1	-	1	-	-	1
Roche Modular Analytics	4	-	4	-	-	4
VITROS ECI	2	-	2	-	-	2

<u>Method</u>	Specimen RU-9		Specimen RU-10	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	15	-	-	15
Abbott Architect	2	-	-	2
Bayer ADVIA Centaur	2	-	-	2
bioMerieux Vidas, Mini Vidas	2	-	-	2
Roche cobas 6000 / e 601	1	-	-	1
Roche cobas e 411	1	-	-	1
Roche Elecsys 1010 / 2010	1	-	-	1
Roche Modular Analytics	4	-	-	4
VITROS ECI	2	-	-	2

**Rubella—Quantitative (IU/mL)**

<b><u>Specimen/Method</u></b>	<b><u>Labs</u></b>	<b><u>Mean</u></b>	<b><u>SD</u></b>	<b><u>CV</u></b>	<b><u>Median</u></b>	<b><u>Range</u></b>
<b>Specimen RU-6</b>						
All Method	25	45.98	18.94	41.2	52.5	0.0 - 102.9
<b>Specimen RU-7</b>						
All Method	24	137.82	58.17	42.2	135.0	0.0 - 312.4
<b>Specimen RU-8</b>						
All Method	23	0.18	0.22	121.9	0.2	0.0 - 0.9
<b>Specimen RU-9</b>						
All Method	24	43.95	17.60	40.0	47.1	0.0 - 96.8
<b>Specimen RU-10</b>						
All Method	23	0.20	0.30	154.5	0.1	0.0 - 1.2

**Syphilis Serology—Qualitative: VDRL Slide**

<b><u>Method</u></b>	<b>Specimen SY-6</b>			<b>Specimen SY-7</b>			<b>Specimen SY-8</b>		
	<b><u>Reactive</u></b>	<b><u>Weakly Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Weakly Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Weakly Reactive</u></b>	<b><u>Non-Reactive</u></b>
ALL METHODS	23	-	-	-	-	23	23	-	-
bioMerieux	2	-	-	-	-	2	2	-	-
BioSystems	1	-	-	-	-	1	1	-	-
Human	1	-	-	-	-	1	1	-	-
SPINREACT	1	-	-	-	-	1	1	-	-
Wiener Lab	17	-	-	-	-	17	17	-	-

  

<b><u>Method</u></b>	<b>Specimen SY-9</b>			<b>Specimen SY-10</b>		
	<b><u>Reactive</u></b>	<b><u>Weakly Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Weakly Reactive</u></b>	<b><u>Non-Reactive</u></b>
ALL METHODS	-	2	21	-	2	21
bioMerieux	-	-	2	-	-	2
BioSystems	-	-	1	-	-	1
Human	-	-	1	-	-	1
SPINREACT	-	-	1	-	-	1
Wiener Lab	-	2	15	-	2	15

**Syphilis Serology—Quantitative: VDRL Slide Titer**

<b><u>Specimen/Method</u></b>	<b><u>0 dils</u></b>	<b><u>1 dil</u></b>	<b><u>2 dils</u></b>	<b><u>4 dils</u></b>	<b><u>8 dils</u></b>	<b><u>16 dils</u></b>	<b><u>32 dils</u></b>	<b><u>&gt;32 dils</u></b>
<b>Specimen SY-6</b>								
ALL METHODS	1	1	5	10	2	1	-	1
bioMerieux	1	-	1	-	-	-	-	-
BioSystems	-	-	-	1	-	-	-	-
SPINREACT	-	-	-	1	-	-	-	-
Wiener Lab	-	1	4	8	2	1	-	1
<b>Specimen SY-8</b>								
ALL METHODS	1	2	3	10	4	-	-	1
bioMerieux	1	1	-	-	-	-	-	-
BioSystems	-	-	-	1	-	-	-	-
SPINREACT	-	-	-	1	-	-	-	-
Wiener Lab	-	1	3	8	4	-	-	1

**Syphilis Serology—Qualitative: MHA-TP**

<b><u>Method</u></b>	<b>Specimen SY-6</b>		<b>Specimen SY-7</b>		<b>Specimen SY-8</b>	
	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>
ALL METHODS	12	-	-	12	12	-
Biokit	1	-	-	1	1	-
bioMerieux	1	-	-	1	1	-
Human	1	-	-	1	1	-
Omega Diagnostics	2	-	-	2	2	-
Serodia	3	-	-	3	3	-

  

	<b>Specimen SY-9</b>		<b>Specimen SY-10</b>	
	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>
ALL METHODS	-	12	-	12
Biokit	-	1	-	1
bioMerieux	-	1	-	1
Human	-	1	-	1
Omega Diagnostics	-	2	-	2
Serodia	-	3	-	3

Syphilis Serology—Qualitative: *Treponema pallidum* Antibodies

<b><u>Method</u></b>	<b>Specimen SY-6</b>		<b>Specimen SY-7</b>		<b>Specimen SY-8</b>	
	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>
ALL METHODS	16	-	-	16	16	-
Bayer ADVIA Centaur	1	-	-	1	1	-
Human	2	-	-	2	2	-
Omega Diagnostics	2	-	-	2	2	-
Serodia	4	-	-	4	4	-

  

	<b>Specimen SY-9</b>		<b>Specimen SY-10</b>	
	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>	<b><u>Reactive</u></b>	<b><u>Non-Reactive</u></b>
ALL METHODS	-	16	-	16
Bayer ADVIA Centaur	-	1	-	1
Human	-	2	-	2
Omega Diagnostics	-	2	-	2
Serodia	-	4	-	4

**Syphilis Serology—Qualitative: RPR**

<u>Method</u>	<u>Specimen SY-6</u>		<u>Specimen SY-7</u>		<u>Specimen SY-8</u>	
	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>
ALL METHODS	52	1	1	52	52	1
Acon Laboratories	1	-	-	1	1	-
Becton Dickinson	1	-	-	1	1	-
bioMerieux	4	-	-	4	4	-
BioSystems	9	-	-	9	9	-
Human	9	1	1	9	9	1
Immunostics Inc.	1	-	-	1	1	-
Omega Diagnostics	11	-	-	11	11	-
Plasmatec	3	-	-	3	3	-
SPINREACT	8	-	-	8	8	-

  

	<u>Specimen SY-9</u>		<u>Specimen SY-10</u>	
	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>
ALL METHODS	1	52	1	52
Acon Laboratories	-	1	-	1
Becton Dickinson	-	1	-	1
bioMerieux	-	4	-	4
BioSystems	-	9	-	9
Human	1	9	1	9
Immunostics Inc.	-	1	-	1
Omega Diagnostics	-	11	-	11
Plasmatec	-	3	-	3
SPINREACT	-	8	-	8



**Syphilis Serology—Quantitative: RPR (Titer)**

<b><u>Specimen/Method</u></b>	<b><u>1</u></b>	<b><u>2</u></b>	<b><u>4</u></b>	<b><u>8</u></b>	<b><u>16</u></b>	<b><u>32</u></b>	<b><u>64</u></b>	<b><u>&gt;64</u></b>
<b>Specimen SY-6</b>								
ALL METHODS	1	20	14	2	1	-	-	-
Becton Dickinson	-	-	1	-	-	-	-	-
bioMerieux	1	2	-	-	-	-	-	-
BioSystems	-	6	1	-	-	-	-	-
Human	-	2	3	1	-	-	-	-
Immunostics Inc.	-	1	-	-	-	-	-	-
Omega Diagnostics	-	3	3	1	1	-	-	-
Plasmatec	-	2	1	-	-	-	-	-
SPINREACT	-	2	5	-	-	-	-	-
<b>Specimen SY-8</b>								
ALL METHODS	4	16	16	3	-	-	-	-
Becton Dickinson	-	-	1	-	-	-	-	-
bioMerieux	2	1	-	-	-	-	-	-
BioSystems	1	5	1	-	-	-	-	-
Human	-	2	3	2	-	-	-	-
Immunostics Inc.	-	1	-	-	-	-	-	-
Omega Diagnostics	-	2	5	1	-	-	-	-
Plasmatec	-	2	1	-	-	-	-	-
SPINREACT	1	1	5	-	-	-	-	-

**Viral Markers – Anti-HBc**

<u>Method</u>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	77	13	78	12	78	12
Abbott Architect	3	1	3	1	3	1
Abbott Architect - IgG	3	-	3	-	3	-
Abbott Architect - IgM	-	1	-	1	-	1
Abbott Architect - Total	22	-	22	-	22	-
Abbott AxSYM - Total	3	-	3	-	3	-
Bayer ADVIA Centaur - IgG	2	-	2	-	2	-
Bayer ADVIA Centaur - Total	3	-	3	-	3	-
Bio-Rad Evolis	2	-	2	-	2	-
bioMerieux Vidas - IgM	-	1	-	1	-	1
bioMerieux Vidas - Total	6	-	6	-	6	-
bioMerieux Vidas, Mini Vidas	1	-	1	-	1	-
Other Total Method	5	1	5	1	5	1
Roche cobas 6000 / e 601	5	-	5	-	5	-
Roche cobas e 411 - IgG	1	-	1	-	1	-
Roche cobas e 411 - IgM	-	1	-	1	-	1
Roche Elecsys - IgG	6	-	6	-	6	-
Roche Elecsys - IgM	-	3	-	3	-	3
Roche Elecsys - Total	6	-	6	-	6	-
Roche Elecsys 1010 / 2010	1	-	1	-	1	-
Roche Modular Analytics	3	1	3	1	3	1
VITROS Eci - IgG	1	1	1	1	1	1
VITROS Eci - IgM	-	2	-	2	-	2
VITROS Eci - Total	1	1	2	-	2	-

**Viral Markers – Anti-HBc (cont'd)**

	Specimen VM-9		Specimen VM-10	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	3	87	8	82
Abbott Architect	-	4	-	4
Abbott Architect - IgG	-	3	-	3
Abbott Architect - IgM	-	1	-	1
Abbott Architect - Total	-	22	1	21
Abbott AxSYM - Total	-	3	2	1
Bayer ADVIA Centaur - IgG	-	2	-	2
Bayer ADVIA Centaur - Total	-	3	-	3
Bio-Rad Evolis	-	2	-	2
bioMerieux Vidas - IgM	-	1	-	1
bioMerieux Vidas - Total	-	6	-	6
bioMerieux Vidas, Mini Vidas	-	1	-	1
Other Total Method	-	6	-	6
Roche cobas 6000 / e 601	1	4	1	4
Roche cobas e 411 - IgG	-	1	-	1
Roche cobas e 411 - IgM	-	1	-	1
Roche Elecsys - IgG	-	6	2	4
Roche Elecsys - IgM	-	3	-	3
Roche Elecsys - Total	-	6	1	5
Roche Elecsys 1010 / 2010	-	1	-	1
Roche Modular Analytics	1	3	1	3
VITROS ECI - IgG	-	2	-	2
VITROS ECI - IgM	-	2	-	2
VITROS ECI - Total	1	1	-	2

**Viral Markers – Anti-HIV**

<b><u>Method</u></b>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	-	198	1	197	2	196
Abbott Architect	-	24	-	24	1	23
Abbott Architect - IgG	-	1	-	1	-	1
Abbott Architect - Total	-	27	1	26	-	27
Abbott AxSYM	-	1	-	1	-	1
Abbott AxSYM - Total	-	3	-	3	-	3
Abbott IMx - Total	-	1	-	1	-	1
Acon Laboratories	-	1	-	1	-	1
Bayer ADVIA Centaur	-	6	-	6	-	6
Bayer ADVIA Centaur - Total	-	8	-	8	-	8
Beckman ACCESS / 2 / Dxl	-	1	-	1	-	1
Beckman ACCESS / 2 / Dxl - Total	-	2	-	2	-	2
Bio-Rad Evolis	-	1	-	1	-	1
bioMerieux Vidas - IgG	-	1	-	1	-	1
bioMerieux Vidas - Total	-	8	-	8	-	8
bioMerieux Vidas, Mini Vidas	-	6	-	6	-	6
BioSystems	-	1	-	1	-	1
Other IgG Method	-	2	-	2	-	2
Other Total Method	-	14	-	14	-	14
Roche cobas 6000 / e 601	-	9	-	9	-	9
Roche cobas e 411	-	3	-	3	-	3
Roche Elecsys - Total	-	26	-	26	-	26
Roche Elecsys 1010 / 2010	-	9	-	9	-	9
Roche Modular Analytics	-	14	-	14	-	14
VITROS ECi	-	5	-	5	-	5
VITROS ECi - IgG	-	2	-	2	-	2
VITROS ECi - IgM	-	1	-	1	-	1
VITROS ECi - Total	-	11	-	11	1	10

**Viral Markers – Anti-HIV (cont'd)**

<b><u>Method</u></b>	<b>Specimen VM-9</b>		<b>Specimen VM-10</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	192	6	3	195
Abbott Architect	23	1	-	24
Abbott Architect - IgG	1	-	-	1
Abbott Architect - Total	26	1	-	27
Abbott AxSYM	1	-	-	1
Abbott AxSYM - Total	3	-	-	3
Abbott IMx - Total	1	-	-	1
Acon Laboratories	1	-	-	1
Bayer ADVIA Centaur	6	-	-	6
Bayer ADVIA Centaur - Total	8	-	-	8
Beckman ACCESS / 2 / Dxl	1	-	-	1
Beckman ACCESS / 2 / Dxl - Total	2	-	-	2
Bio-Rad Evolis	1	-	-	1
bioMerieux Vidas - IgG	1	-	-	1
bioMerieux Vidas - Total	7	1	1	7
bioMerieux Vidas, Mini Vidas	6	-	-	6
BioSystems	1	-	-	1
Other IgG Method	2	-	-	2
Other Total Method	14	-	-	14
Roche cobas 6000 / e 601	8	1	1	8
Roche cobas e 411	3	-	-	3
Roche Elecsys - Total	26	-	-	26
Roche Elecsys 1010 / 2010	8	1	1	8
Roche Modular Analytics	14	-	-	14
VITROS ECi	5	-	-	5
VITROS ECi - IgG	2	-	-	2
VITROS ECi - IgM	1	-	-	1
VITROS ECi - Total	10	1	-	11

**Viral Markers – HAV**

<u>Method</u>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	5	93	78	20	62	36
Abbott Architect - IgG	-	15	15	-	15	-
Abbott Architect - IgM	-	6	-	6	-	6
Abbott Architect - Total	1	5	5	1	5	1
Abbott AxSYM - IgG	-	2	2	-	2	-
Abbott AxSYM - IgM	-	1	-	1	-	1
Bayer ADVIA Centaur - IgG	-	1	1	-	1	-
Bayer ADVIA Centaur - IgM	-	1	-	1	-	1
Bayer ADVIA Centaur - Total	-	5	5	-	5	-
bioMerieux Vidas - IgG	-	1	1	-	1	-
bioMerieux Vidas - IgM	-	6	-	6	-	6
bioMerieux Vidas - Total	-	5	5	-	4	1
Other IgG Method	-	2	2	-	1	1
Other IgM method	-	3	2	1	-	3
Other Total Method	-	3	3	-	1	2
Roche cobas 6000 / e 601	-	5	5	-	4	1
Roche cobas 6000/e601 - IgM	-	1	1	-	-	1
Roche cobas e 411 - IgG	1	-	-	1	1	-
Roche cobas e 411 - Total	-	1	1	-	1	-
Roche Elecsys - IgG	1	7	8	-	8	-
Roche Elecsys - IgM	1	9	9	1	1	9
Roche Elecsys - Total	-	4	4	-	4	-
Roche Modular Analytics	-	4	4	-	4	-
VITROS ECI - IgM	-	2	2	-	-	2
VITROS ECI - Total	-	1	1	-	1	-

**Viral Markers – HAV (cont'd)**

<u>Method</u>	<b>Specimen VM-9</b>		<b>Specimen VM-10</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	4	94	60	38
Abbott Architect - IgG	-	15	15	-
Abbott Architect - IgM	-	6	-	6
Abbott Architect - Total	-	6	5	1
Abbott AxSYM - IgG	-	2	2	-
Abbott AxSYM - IgM	-	1	-	1
Bayer ADVIA Centaur - IgG	-	1	1	-
Bayer ADVIA Centaur - IgM	-	1	-	1
Bayer ADVIA Centaur - Total	-	5	5	-
bioMerieux Vidas - IgG	-	1	1	-
bioMerieux Vidas - IgM	-	6	-	6
bioMerieux Vidas - Total	-	5	4	1
Other IgG Method	-	2	2	-
Other IgM method	-	3	-	3
Other Total Method	-	3	2	1
Roche cobas 6000 / e 601	1	4	4	1
Roche cobas 6000/e601 - IgM	-	1	-	1
Roche cobas e 411 - IgG	1	-	-	1
Roche cobas e 411 - Total	-	1	1	-
Roche Elecsys - IgG	-	8	6	2
Roche Elecsys - IgM	1	9	1	9
Roche Elecsys - Total	-	4	4	-
Roche Modular Analytics	-	4	4	-
VITROS ECi - IgM	-	2	-	2
VITROS ECi - Total	-	1	1	-

**Viral Markers – HBeAg**

<b><u>Method</u></b>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	47	10	1	56	-	57
Abbott Architect	4	-	-	4	-	4
Abbott Architect - IgG	1	-	-	1	-	1
Abbott Architect - Total	13	-	1	12	-	13
Abbott AxSYM	2	-	-	2	-	2
Abbott AxSYM - Total	1	-	-	1	-	1
Bayer ADVIA Centaur	1	-	-	1	-	1
Bayer ADVIA Centaur - IgG	1	-	-	1	-	1
Bayer ADVIA Centaur - Total	2	-	-	2	-	2
bioMerieux Vidas - Total	-	2	-	2	-	2
bioMerieux Vidas, Mini Vidas	-	3	-	3	-	3
DiaSorin - Total	1	-	-	1	-	1
Other IgG Method	1	-	-	1	-	1
Other Total Method	1	1	-	2	-	2
Roche cobas 6000 / e 601	2	-	-	2	-	2
Roche cobas e 411	1	-	-	1	-	1
Roche Elecsys - Total	5	-	-	5	-	5
Roche Modular Analytics	6	-	-	6	-	6
VITROS ECI	-	1	-	1	-	1
VITROS ECI - IgG	-	1	-	1	-	1
VITROS ECI - IgM	1	-	-	1	-	1
VITROS ECI - Total	1	1	-	2	-	2



**Viral Markers – HBeAg (cont'd)**

<u>Method</u>	<b>Specimen VM-9</b>		<b>Specimen VM-10</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	56	-	57
Abbott Architect	-	4	-	4
Abbott Architect - IgG	-	1	-	1
Abbott Architect - Total	1	12	-	13
Abbott AxSYM	-	2	-	2
Abbott AxSYM - Total	-	1	-	1
Bayer ADVIA Centaur	-	1	-	1
Bayer ADVIA Centaur - IgG	-	1	-	1
Bayer ADVIA Centaur - Total	-	2	-	2
bioMerieux Vidas - Total	-	2	-	2
bioMerieux Vidas, Mini Vidas	-	3	-	3
DiaSorin - Total	-	1	-	1
Other IgG Method	-	1	-	1
Other Total Method	-	2	-	2
Roche cobas 6000 / e 601	-	2	-	2
Roche cobas e 411	-	1	-	1
Roche Elecsys - Total	-	5	-	5
Roche Modular Analytics	-	6	-	6
VITROS ECi	-	1	-	1
VITROS ECi - IgG	-	1	-	1
VITROS ECi - IgM	-	1	-	1
VITROS ECi - Total	-	2	-	2

**Viral Markers – HBsAb**

<u>Method</u>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	7	136	92	51	139	4
Abbott Architect	-	16	16	-	16	-
Abbott Architect - IgG	-	3	3	-	3	-
Abbott Architect - Total	-	19	19	-	18	1
Abbott AxSYM	-	1	1	-	1	-
Abbott AxSYM - Total	-	3	3	-	3	-
Bayer ADVIA Centaur	-	3	3	-	3	-
Bayer ADVIA Centaur - IgG	1	2	3	-	3	-
Bayer ADVIA Centaur - Total	-	6	2	4	6	-
bioMerieux Vidas - IgG	-	1	1	-	1	-
bioMerieux Vidas - Total	-	6	6	-	6	-
BioSystems	1	-	1	-	-	1
DPC Immulite 2000	-	1	1	-	1	-
Other IgG Method	-	1	-	1	1	-
Other Total Method	-	6	2	4	6	-
Roche cobas 6000 / e 601	1	7	2	6	8	-
Roche cobas 6000/e601 - IgG	-	1	1	-	1	-
Roche cobas e 411	-	2	-	2	2	-
Roche Elecsys - IgG	-	1	-	1	1	-
Roche Elecsys - Total	1	14	3	12	15	-
Roche Elecsys 1010 / 2010	-	8	1	7	8	-
Roche Modular Analytics	2	13	5	10	15	-
VITROS ECi	-	1	1	-	1	-
VITROS ECi - IgG	-	2	2	-	2	-
VITROS ECi - IgM	-	1	1	-	1	-
VITROS ECi - Total	-	13	13	-	12	1

**Viral Markers – HBsAb (cont'd)**

<u>Method</u>	<u>Specimen VM-9</u>		<u>Specimen VM-10</u>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	135	8	8	135
Abbott Architect	16	-	-	16
Abbott Architect - IgG	3	-	-	3
Abbott Architect - Total	19	-	1	18
Abbott AxSYM	1	-	-	1
Abbott AxSYM - Total	3	-	-	3
Bayer ADVIA Centaur	3	-	-	3
Bayer ADVIA Centaur - IgG	3	-	-	3
Bayer ADVIA Centaur - Total	6	-	-	6
bioMerieux Vidas - IgG	1	-	-	1
bioMerieux Vidas - Total	6	-	-	6
BioSystems	-	1	-	1
DPC Immulite 2000	1	-	-	1
Other IgG Method	1	-	-	1
Other Total Method	4	2	-	6
Roche cobas 6000 / e 601	8	-	1	7
Roche cobas 6000/e601 - IgG	1	-	-	1
Roche cobas e 411	1	1	-	2
Roche Elecsys - IgG	1	-	-	1
Roche Elecsys - Total	14	1	2	13
Roche Elecsys 1010 / 2010	7	1	-	8
Roche Modular Analytics	14	1	4	11
VITROS ECi	1	-	-	1
VITROS ECi - IgG	2	-	-	2
VITROS ECi - IgM	1	-	-	1
VITROS ECi - Total	13	-	-	13

**Viral Markers – HBsAg**

<b><u>Method</u></b>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	190	3	190	3	-	188
Abbott Architect	24	-	24	-	-	24
Abbott Architect - IgG	2	-	2	-	-	2
Abbott Architect - IgM	1	-	1	-	-	1
Abbott Architect - Total	26	-	26	-	-	26
Abbott AxSYM	2	-	2	-	-	2
Abbott AxSYM - IgM	1	-	1	-	-	1
Abbott AxSYM - Total	2	-	2	-	-	2
Acon Laboratories	1	-	1	-	-	1
Bayer ADVIA Centaur	7	-	7	-	-	7
Bayer ADVIA Centaur - IgG	1	-	1	-	-	1
Bayer ADVIA Centaur - IgM	1	-	1	-	-	1
Bayer ADVIA Centaur - Total	5	1	6	-	-	6
Beckman ACCESS / 2 / Dxl	2	-	2	-	-	2
Bio-Rad Evolis	1	-	1	-	-	1
bioMerieux Vidas - IgG	1	-	1	-	-	1
bioMerieux Vidas - Total	5	-	5	-	-	5
bioMerieux Vidas, Mini Vidas	7	-	7	-	-	7
DPC Immulite 2000	1	-	1	-	-	1
Other IgG Method	2	-	2	-	-	2
Other Total Method	13	-	13	-	-	13
Roche cobas 6000 / e 601	7	1	7	1	-	8
Roche cobas e 411	3	-	3	-	-	3
Roche Elecsys - Total	24	-	24	-	-	24
Roche Elecsys 1010 / 2010	8	-	8	-	-	8
Roche Modular Analytics	15	-	15	-	-	15
VITROS ECi	5	-	5	-	-	3
VITROS ECi - IgG	2	-	2	-	-	2
VITROS ECi - IgM	1	-	1	-	-	1
VITROS ECi - Total	10	1	10	1	-	8

**Viral Markers – HBsAg (cont'd)**

<b><u>Method</u></b>	<b>Specimen VM-9</b>		<b>Specimen VM-10</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	1	192	6	183
Abbott Architect	-	24	-	24
Abbott Architect - IgG	-	2	-	2
Abbott Architect - IgM	-	1	-	1
Abbott Architect - Total	-	26	-	26
Abbott AxSYM	-	2	-	2
Abbott AxSYM - IgM	-	1	-	1
Abbott AxSYM - Total	-	2	1	1
Acon Laboratories	-	1	-	1
Bayer ADVIA Centaur	-	7	-	7
Bayer ADVIA Centaur - IgG	-	1	-	1
Bayer ADVIA Centaur - IgM	-	1	-	1
Bayer ADVIA Centaur - Total	-	6	-	6
Beckman ACCESS / 2 / Dxl	-	2	-	2
Bio-Rad Evolis	-	1	-	1
bioMerieux Vidas - IgG	-	1	-	1
bioMerieux Vidas - Total	-	5	-	5
bioMerieux Vidas, Mini Vidas	-	7	-	7
DPC Immulite 2000	-	1	-	1
Other IgG Method	-	2	-	2
Other Total Method	-	13	-	13
Roche cobas 6000 / e 601	1	7	1	7
Roche cobas e 411	-	3	-	3
Roche Elecsys - Total	-	24	1	23
Roche Elecsys 1010 / 2010	-	8	2	6
Roche Modular Analytics	-	15	1	14
VITROS ECI	-	5	-	3
VITROS ECI - IgG	-	2	-	2
VITROS ECI - IgM	-	1	-	1
VITROS ECI - Total	-	11	-	9

**Viral Markers – HCV**

<b><u>Method</u></b>	<b>Specimen VM-6</b>		<b>Specimen VM-7</b>		<b>Specimen VM-8</b>	
	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>	<b><u>Positive</u></b>	<b><u>Negative</u></b>
ALL METHODS	1	165	-	166	1	165
Abbott Architect	-	22	-	22	-	22
Abbott Architect - IgG	-	5	-	5	-	5
Abbott Architect - Total	-	25	-	25	-	25
Abbott AxSYM	-	2	-	2	-	2
Abbott AxSYM - Total	1	2	-	3	-	3
Acon Laboratories	-	1	-	1	-	1
Bayer ADVIA Centaur	-	5	-	5	-	5
Bayer ADVIA Centaur - IgG	-	3	-	3	-	3
Bayer ADVIA Centaur - Total	-	7	-	7	-	7
Beckman ACCESS / 2 / Dxl	-	1	-	1	-	1
Beckman ACCESS / 2 / Dxl - Total	-	1	-	1	-	1
Bio-Rad Evolis	-	4	-	4	-	4
bioMerieux Vidas, Mini Vidas	-	1	-	1	-	1
Other IgG Method	-	5	-	5	-	5
Other Total Method	-	11	-	11	-	11
Roche cobas 6000 / e 601	-	1	-	1	-	1
Roche cobas e 411	-	3	-	3	-	3
Roche Elecsys - Total	-	15	-	15	-	15
Roche Elecsys 1010 / 2010	-	3	-	3	-	3
Roche Modular Analytics	-	13	-	13	-	13
VITROS ECi	-	1	-	1	-	1
VITROS ECi - IgG	-	2	-	2	-	2
VITROS ECi - IgM	-	1	-	1	-	1
VITROS ECi - Total	-	16	-	16	-	16

**Viral Markers – HCV (cont'd)**

<u>Method</u>	<u>Specimen VM-9</u>		<u>Specimen VM-10</u>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	165	164	2
Abbott Architect	-	22	22	-
Abbott Architect - IgG	-	5	5	-
Abbott Architect - Total	-	25	25	-
Abbott AxSYM	-	2	2	-
Abbott AxSYM - Total	-	3	3	-
Acon Laboratories	-	1	1	-
Bayer ADVIA Centaur	-	5	4	1
Bayer ADVIA Centaur - IgG	-	3	3	-
Bayer ADVIA Centaur - Total	-	7	7	-
Beckman ACCESS / 2 / Dxl	-	1	1	-
Beckman ACCESS / 2 / Dxl - Total	-	1	1	-
Bio-Rad Evolis	-	4	4	-
bioMerieux Vidas, Mini Vidas	-	1	1	-
Other IgG Method	-	5	5	-
Other Total Method	1	10	11	-
Roche cobas 6000 / e 601	-	1	1	-
Roche cobas e 411	-	3	3	-
Roche Elecsys - Total	-	15	15	-
Roche Elecsys 1010 / 2010	-	3	3	-
Roche Modular Analytics	-	13	13	-
VITROS ECi	-	1	1	-
VITROS ECi - IgG	-	2	2	-
VITROS ECi - IgM	-	1	1	-
VITROS ECi - Total	-	16	15	1

## Toxoplasma gondii Antibody

<u>Method</u>	<u>Specimen TOX-6</u>		<u>Specimen TOX-7</u>		<u>Specimen TOX-8</u>		<u>Specimen TOX-9</u>		<u>Specimen TOX-10</u>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	10	1	11	-	-	1	-	-	1	-
Abbott Architect - IgG	2	-	2	-	-	-	-	-	-	-
Bayer ADVIA Centaur - IgG	2	-	2	-	-	-	-	-	-	-
bioMerieux Vidas - IgG	2	-	1	-	-	-	-	-	-	-
Other IgG Method	1	-	1	-	-	-	-	-	-	-
Roche cobas 6000/e601 - IgG	1	-	1	-	-	-	-	-	-	-
Roche cobas e 411 - IgG	1	-	2	-	-	-	-	-	-	-
Roche Elecsys - IgM	-	1	1	-	-	-	-	-	-	-
Roche Modular Analytics	1	-	1	-	-	-	-	-	-	-

## Cytomegalovirus (CMV) Antibodies

<u>Method</u>	<u>Specimen CMV-6</u>		<u>Specimen CMV-7</u>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	4	2	6	-
Abbott Architect - IgG	1	-	1	-
Abbott AxSYM - IgG	1	-	1	-
bioMerieux Vidas - IgG	1	-	1	-
Other IgG Method	1	-	1	-
Roche cobas e 411 - IgM	-	1	1	-
Roche Elecsys - IgM	-	1	1	-



**Toxoplasma gondii Antibody—Quantitative (IU/mL)**

<u>Specimen/Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
<b>Specimen TOX-6</b>						
All Method	16	272.6	255.3	93.6	171	0 - 1039
<b>Specimen TOX-7</b>						
All Method	16	232.6	213.3	91.7	134	0 - 873
<b>Specimen TOX-8</b>						
All Method	1	-	-	-	1	Not graded
<b>Specimen TOX-9</b>						
All Method	1	-	-	-	100	Not graded
<b>Specimen TOX-10</b>						
All Method	1	-	-	-	132	Not graded

**Cytomegalovirus (CMV) Antibodies —Quantitative (U/mL)**

<u>Specimen/Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
<b>Specimen CMV-6</b>						
All Method	8	47.8	22.5	47.1	54	0 - 116
<b>Specimen CMV-7</b>						
All Method	8	25.3	20.3	80.4	24	0 - 87

**CK-MB - Quantitative (U/L)**

<u>Specimen/Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
<b>Specimen CK-6</b>						
All Method	6	6.95	0.94	13.5	6.9	4.1 - 9.8
<b>Specimen CK-7</b>						
All Method	6	27.02	3.75	13.9	25.4	15.7 - 38.3
<b>Specimen CK-8</b>						
All Method	6	45.58	3.63	8.0	44.1	34.6 - 56.5
<b>Specimen CK-9</b>						
All Method	6	15.92	1.21	7.6	15.9	12.2 - 19.6
<b>Specimen CK-10</b>						
All Method	6	83.77	6.53	7.8	82.2	64.1 - 103.4

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