

# **MEDICAL LABORATORY EVALUATION**

## **PARTICIPANT SUMMARY**

**2 • 0 • 0 • 7**

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



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

**International Data Supplement  
MLE – M3**

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## 2007 Evaluation Criteria

The evaluation criteria used in the 2007 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 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.

Antimicrobial Susceptibility Testing	80% Consensus
Microalbumin (Semi-Quantitative)	80% Consensus
Parasite Identification	80% Consensus
Syphilis Serology	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 5 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 pages 39-40 under the heading "Acceptable Ranges for Quantitative Results."

Activated Partial Thromboplastin Time	$\pm$ 15 percent
Calcium, Ionized	$\pm$ 3 SD
Chloride	$\pm$ 5%
Fibrinogen	$\pm$ 20 percent
International Normalized Ratio	$\pm$ 3 SD
pCO <sub>2</sub>	$\pm$ 5 mmHg or 8% *
pH	$\pm$ 0.04
pO <sub>2</sub>	$\pm$ 3 SD
Potassium	$\pm$ 0.5 mmol/L
Prothrombin Time	$\pm$ 15 percent
Sodium	$\pm$ 4.0 mmol/L
Specific Gravity	$\pm$ 0.010

\*Whichever is greater



**PROTHROMBIN TIME (seconds)****Specimen CG-15**

<b><u>Reagent/Instruments</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>
All Method	152	11.77	1.71	14.5	11.5
bioMerieux Simplastin Excel S					
bioMerieux Thrombolyzer Compact X/XR	6	14.53	0.72	5.0	14.7
bioMerieux Thrombotimer	8	14.49	1.46	10.1	14.6
OTC Coag-A-Mate MTX / II	5	14.62	0.30	2.1	14.5
All Coagulation Instruments	25	14.52	1.00	6.9	14.5
Dade Innovin					
Sysmex CA-1000/1500	6	10.18	0.21	2.1	10.1
Sysmex CA-500	6	10.40	0.82	7.9	10.2
All Coagulation Instruments	13	10.35	0.59	5.7	10.2
Dade Thromborel S					
Dade Behring BFT II	5	11.00	0.97	8.8	11.3
Sysmex CA-500	8	10.81	0.52	4.8	10.8
All Coagulation Instruments	22	11.05	0.61	5.5	11.2
Diag Stago STA Neoplastine CI+					
RAL Clot-SP	11	12.99	0.29	2.2	13.0
All Coagulation Instruments	13	12.86	0.45	3.5	12.9
HUMAN HemoStat Thromboplastin - SI					
All Coagulation Instruments	11	12.67	1.19	9.4	12.4
IL TEST PT-FIB Recombinant					
IL ACL, all models	39	10.22	0.51	5.0	10.2
TEClot PT					
Coatron M2 / M4	9	11.57	1.00	8.6	12.0



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

**Specimen CG-15**

<u>Reagent/Instruments</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	147	0.95	0.09	9.1	1.0
bioMerieux Simplastin Excel S					
bioMerieux Thrombolyzer					
Compact X/XR	6	0.98	0.08	7.7	1.0
bioMerieux Thrombotimer	8	0.88	0.37	42.2	1.0
OTC Coag-A-Mate MTX / II	5	0.90	0	0	0.9
All Coagulation Instruments	24	0.98	0.09	9.2	1.0
Dade Innovin					
Sysmex CA-1000/1500	6	0.97	0.05	5.3	1.0
Sysmex CA-500	6	0.97	0.10	10.7	1.0
All Coagulation Instruments	13	0.96	0.08	8.0	1.0
Dade Thromborel S					
Dade Behring BFT II	5	0.86	0.09	10.4	0.8
Sysmex CA-500	8	0.98	0.05	4.7	1.0
All Coagulation Instruments	22	0.94	0.07	7.8	1.0
Diag Stago STA Neoplastine CI+					
RAL Clot-SP	11	0.95	0.05	5.5	1.0
All Coagulation Instruments	13	0.97	0.06	6.5	1.0
HUMAN HemoStat					
Thromboplastin - SI					
All Coagulation Instruments	11	0.97	0.13	13.1	1.0
IL TEST PT-FIB Recombinant					
IL ACL, all models	39	0.92	0.09	10.0	0.9
TEClot PT					
Coatron M2 / M4	9	1.30	1.10	84.3	1.0



**ACTIVATED PARTIAL THROMBOPLASTIN (seconds)**

**Specimen CG-15**

<u>Reagent/Instruments</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	139	28.4	3.4	12.1	28
bioMerieux autoAPTT Reagent					
bioMerieux Thrombotimer	10	31.2	5.6	17.9	32
All Coagulation Instruments	19	31.1	4.5	14.4	31
Dade Actin FS					
Sysmex CA-500	5	23.6	1.8	7.7	24
All Coagulation Instruments	10	25.2	2.3	9.3	25
Dade Actin FSL					
Sysmex CA-500	5	28.0	1.0	3.6	28
All Coagulation Instruments	14	27.6	1.2	4.2	28
Dade Actin					
Sysmex CA-500	6	24.8	1.7	6.9	25
All Coagulation Instruments	13	25.8	2.3	8.9	25
HUMAN HemoStat aPTT - EL					
All Coagulation Instruments	16	28.2	4.1	14.5	28
IL TEST APTT-SP					
IL ACL, all models	37	28.5	2.1	7.3	28
TEClot APTT					
Coatron M2 / M4	7	26.9	2.5	9.2	26

**FIBRINOGEN (mg/dL)**

**Specimen CG-11**

**Specimen CG-12**

<u>Reagent/Instruments</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	72	177.0	26.4	14.9	173	76	301.3	48.2	16.0	292
Dade Fibrinogen Set										
Sysmex CA-500	10	159.8	18.5	11.6	162	10	264.4	30.9	11.7	271
All Coagulation Instruments	17	160.9	17.9	11.1	163	17	267.0	30.1	11.3	271
HUMAN HemoStat Fibrinogen										
bioMerieux Thrombolyzer										
Compact X/XR	2	-	-	-	182	5	336.2	38.7	11.5	329
All Coagulation Instruments	6	151.7	18.1	11.9	156	10	316.2	41.9	13.2	321
IL TEST PT Fibrinogen										
IL ACL, all models	7	186.1	25.2	13.5	192	7	293.6	38.0	12.9	282
IL TEST PT-FIB Recombinant										
IL ACL, all models	25	188.5	26.0	13.8	195	25	329.4	50.7	15.4	335

**Specimen CG-13**

**Specimen CG-14**

All Method	76	407.4	65.9	16.2	411	74	301.3	43.7	14.5	292
Dade Fibrinogen Set										
Sysmex CA-500	10	411.5	46.4	11.3	428	10	269.6	38.5	14.3	275
All Coagulation Instruments	17	413.5	39.7	9.6	417	17	269.5	31.4	11.7	275
HUMAN HemoStat Fibrinogen										
bioMerieux Thrombolyzer										
Compact X/XR	5	433.0	105.6	24.4	492	5	322.2	37.5	11.6	332
All Coagulation Instruments	9	418.9	77.9	18.6	407	10	296.3	39.6	13.4	298
IL TEST PT Fibrinogen										
IL ACL, all models	7	399.1	49.2	12.3	381	6	320.3	52.0	16.2	301
IL TEST PT-FIB Recombinant										
IL ACL, all models	25	408.2	45.4	11.1	412	24	321.4	36.5	11.4	317

## FIBRINOGEN (mg/dL)

### Specimen CG-15

<u>Reagent/Instruments</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	78	280.3	37.6	13.4	277
Dade Fibrinogen Set					
Systemex CA-500	9	259.7	33.9	13.1	268
All Coagulation Instruments	16	260.8	32.3	12.4	268
HUMAN HemoStat Fibrinogen bioMerieux Thrombolyzer					
Compact X/XR	5	297.2	33.4	11.2	280
All Coagulation Instruments	10	286.6	35.4	12.3	277
IL TEST PT Fibrinogen					
IL ACL, all models	9	280.2	31.9	11.4	282
IL TEST PT-FIB Recombinant					
IL ACL, all models	25	297.0	29.6	10.0	303

## Urinalysis

### URINALYSIS DIPSTICK–SPECIFIC GRAVITY

#### Specimen UA-3

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Refractive Index Methods	5	1.0184	0.0021	0.2	1.019
All Method	143	1.0157	0.0053	0.5	1.015
Arkay Aution Sticks	7	1.0257	0.0045	0.4	1.025
Arkay PocketChem UA	6	1.0208	0.0111	1.1	1.025
Bayer Clinitek 50	6	1.0150	0.0000	0.0	1.015
Bayer Clinitek 500	18	1.0200	0.0000	0.0	1.020
Bayer Reagent Strips	7	1.0150	0.0029	0.3	1.015
Iris Diagnostics iChem 100	5	1.0140	0.0065	0.6	1.010
Other Method	5	1.0150	0.0000	0.0	1.015
Roche (BMC) Chemstrips	26	1.0116	0.0029	0.3	1.010
Roche Miditron	10	1.0115	0.0033	0.3	1.010
Roche Urisys	15	1.0148	0.0038	0.4	1.016
UriScan Reagent Strips	18	1.0158	0.0031	0.3	1.015

## URINALYSIS DIPSTICK–pH

### Specimen UA-3

#### Participant Results

<u>Method</u>	<u>3.5 or less</u>	<u>4.0</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	-	1	-	-	-	2	121	22	3	-	-
Arkray Aution Jet	-	-	-	-	-	-	2	-	-	-	-
Arkray Aution Sticks	-	-	-	-	-	-	7	-	-	-	-
Arkray PocketChem UA	-	-	-	-	-	-	6	-	-	-	-
Bayer Clinitek 50	-	-	-	-	-	-	6	-	-	-	-
Bayer Clinitek 500	-	-	-	-	-	-	5	15	-	-	-
Bayer Clinitek Atlas	-	-	-	-	-	-	3	-	-	-	-
Bayer Clinitek Status	-	-	-	-	-	-	1	-	-	-	-
Bayer Reagent Strips	-	-	-	-	-	-	3	4	-	-	-
Iris Diagnostics Aution Max AX-4280	-	-	-	-	-	-	2	-	-	-	-
Iris Diagnostics iChem 100	-	-	-	-	-	-	5	-	-	-	-
Iris Diagnostics vChem Urine Strips	-	-	-	-	-	-	-	-	1	-	-
Quidel QuickVue UrinChek	-	-	-	-	-	-	-	-	1	-	-
Roche (BMC) Chemstrips	-	-	-	-	-	1	26	-	-	-	-
Roche (BMC) Criterion Analyzer	-	-	-	-	-	-	1	-	-	-	-
Roche (BMC) Mini UA	-	-	-	-	-	-	1	-	-	-	-
Roche Miditron	-	-	-	-	-	-	10	-	-	-	-
Roche Urisys	-	-	-	-	-	-	16	-	1	-	-
Roche(BMC) SuperUA/ChemstripUA	-	-	-	-	-	-	2	-	-	-	-
UriScan Pro	-	-	-	-	-	1	1	-	-	-	-
UriScan Reagent Strips	-	1	-	-	-	-	17	1	-	-	-

## URINALYSIS DIPSTICK–PROTEIN QUALITATIVE

### Specimen UA-3

#### Participant Results

<u>Method</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>≥1000mg/dL (4+)</u>
ALL METHODS	-	-	2	124	21	1
Arkray Aution Jet	-	-	-	2	-	-
Arkray Aution Sticks	-	-	-	7	-	-
Arkray PocketChem UA	-	-	-	6	-	-
Bayer Clinitek 50	-	-	-	-	6	-
Bayer Clinitek 500	-	-	-	20	-	-
Bayer Clinitek Atlas	-	-	-	3	-	-
Bayer Clinitek Status	-	-	-	-	1	-
Bayer Reagent Strips	-	-	-	2	4	1
Iris Diagnostics Aution Max AX-4280	-	-	-	2	-	-
Iris Diagnostics iChem 100	-	-	1	4	-	-
Iris Diagnostics vChem Urine Strips	-	-	-	1	-	-
Quidel QuickVue UrinChek	-	-	-	1	-	-
Roche (BMC) Chemstrips	-	-	-	24	3	-
Roche (BMC) Criterion Analyzer	-	-	-	1	-	-
Roche (BMC) Mini UA	-	-	-	1	-	-
Roche Miditron	-	-	1	9	-	-
Roche Urisys	-	-	-	12	4	-
Roche(BMC) SuperUA/ChemstripUA	-	-	-	2	-	-
UriScan Pro	-	-	-	2	-	-
UriScan Reagent Strips	-	-	-	18	1	-

**URINALYSIS DIPSTICK–GLUCOSE OR REDUCING SUBSTANCE**

**Specimen UA-3**

<u>Method</u>	<u>Negative</u>	<i>Participant Results</i>						
		<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	148	-	-	-	-	1	-	-
Arkray Aution Jet	2	-	-	-	-	-	-	-
Arkray Aution Sticks	7	-	-	-	-	-	-	-
Arkray PocketChem UA	6	-	-	-	-	-	-	-
Bayer Clinitek 50	6	-	-	-	-	-	-	-
Bayer Clinitek 500	20	-	-	-	-	-	-	-
Bayer Clinitek Atlas	3	-	-	-	-	-	-	-
Bayer Clinitek Status	1	-	-	-	-	-	-	-
Bayer Reagent Strips	7	-	-	-	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	-	-	-	-	-	-	-
Iris Diagnostics iChem 100	5	-	-	-	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	-	-	-
Quidel QuickVue UrinChek	1	-	-	-	-	-	-	-
Roche (BMC) Chemstrips	27	-	-	-	-	-	-	-
Roche (BMC) Criterion Analyzer	1	-	-	-	-	-	-	-
Roche (BMC) Mini UA	1	-	-	-	-	-	-	-
Roche Miditron	10	-	-	-	-	-	-	-
Roche Urisys	16	-	-	-	-	1	-	-
Roche(BMC) SuperUA/ChemstripUA	2	-	-	-	-	-	-	-
UriScan Pro	2	-	-	-	-	-	-	-
UriScan Reagent Strips	19	-	-	-	-	-	-	-

**URINALYSIS DIPSTICK–KETONES**

**Specimen UA-3**

<u>Method</u>	<u>Negative</u>	<i>Participant Results</i>			
		<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>
ALL METHODS	148	-	-	-	1
Arkray Aution Jet	2	-	-	-	-
Arkray Aution Sticks	7	-	-	-	-
Arkray PocketChem UA	6	-	-	-	-
Bayer Clinitek 50	6	-	-	-	-
Bayer Clinitek 500	20	-	-	-	-
Bayer Clinitek Atlas	3	-	-	-	-
Bayer Clinitek Status	1	-	-	-	-
Bayer Reagent Strips	7	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	-	-	-	-
Iris Diagnostics iChem 100	5	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-
Quidel QuickVue UrinChek	1	-	-	-	-
Roche (BMC) Chemstrips	27	-	-	-	-
Roche (BMC) Criterion Analyzer	1	-	-	-	-
Roche (BMC) Mini UA	1	-	-	-	-
Roche Miditron	10	-	-	-	-
Roche Urisys	16	-	-	-	1
Roche(BMC) SuperUA/ChemstripUA	2	-	-	-	-
UriScan Pro	2	-	-	-	-
UriScan Reagent Strips	19	-	-	-	-

## URINALYSIS DIPSTICK–BILIRUBIN

### Specimen UA-3

#### Participant Results

<u>Method</u>	<u>Negative</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	148	-	-	-
Arkray Aution Jet	2	-	-	-
Arkray Aution Sticks	7	-	-	-
Arkray PocketChem UA	6	-	-	-
Bayer Clinitek 50	6	-	-	-
Bayer Clinitek 500	20	-	-	-
Bayer Clinitek Atlas	3	-	-	-
Bayer Clinitek Status	1	-	-	-
Bayer Reagent Strips	7	-	-	-
Iris Diagnostics Aution Max AX-4280	2	-	-	-
Iris Diagnostics iChem 100	5	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-
Quidel QuickVue UrinChek	1	-	-	-
Roche (BMC) Chemstrips	27	-	-	-
Roche (BMC) Criterion Analyzer	1	-	-	-
Roche (BMC) Mini UA	1	-	-	-
Roche Miditron	10	-	-	-
Roche Urisys	17	-	-	-
Roche(BMC) SuperUA/ChemstripUA	2	-	-	-
UriScan Pro	2	-	-	-
UriScan Reagent Strips	19	-	-	-

## URINALYSIS DIPSTICK–UROBILINOGEN

### Specimen UA-3

#### Participant Results

<u>Method</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	148	-	-	-	-
Arkray Aution Jet	2	-	-	-	-
Arkray Aution Sticks	7	-	-	-	-
Arkray PocketChem UA	6	-	-	-	-
Bayer Clinitek 50	6	-	-	-	-
Bayer Clinitek 500	20	-	-	-	-
Bayer Clinitek Atlas	3	-	-	-	-
Bayer Clinitek Status	1	-	-	-	-
Bayer Reagent Strips	7	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	-	-	-	-
Iris Diagnostics iChem 100	5	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-
Quidel QuickVue UrinChek	1	-	-	-	-
Roche (BMC) Chemstrips	27	-	-	-	-
Roche (BMC) Criterion Analyzer	1	-	-	-	-
Roche (BMC) Mini UA	1	-	-	-	-
Roche Miditron	10	-	-	-	-
Roche Urisys	17	-	-	-	-
Roche(BMC) SuperUA/ChemstripUA	2	-	-	-	-
UriScan Pro	2	-	-	-	-
UriScan Reagent Strips	19	-	-	-	-

**URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN**

**Specimen UA-3**

*Participant Results*

<u>Method</u>	<u>Negative</u>	<u>Trace</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	2	2	3	7	134
Arkray Aution Jet	-	-	-	-	2
Arkray Aution Sticks	-	1	-	3	3
Arkray PocketChem UA	-	-	-	-	6
Bayer Clinitek 50	-	-	-	-	5
Bayer Clinitek 500	-	-	-	2	18
Bayer Clinitek Atlas	-	-	-	-	3
Bayer Clinitek Status	-	-	-	-	1
Bayer Reagent Strips	-	-	-	-	7
Iris Diagnostics Aution Max AX-4280	-	-	-	-	2
Iris Diagnostics iChem 100	-	1	-	1	3
Iris Diagnostics vChem Urine Strips	-	-	1	-	-
Quidel QuickVue UrinChek	-	-	1	-	-
Roche (BMC) Chemstrips	-	-	-	-	27
Roche (BMC) Criterion Analyzer	-	-	-	-	1
Roche (BMC) Mini UA	-	-	-	-	1
Roche Miditron	-	-	1	-	9
Roche Urisys	1	-	-	-	16
Roche(BMC) SuperUA/ChemstripUA	-	-	-	-	2
UriScan Pro	-	-	-	-	2
UriScan Reagent Strips	1	-	-	1	17

**URINALYSIS DIPSTICK–LEUKOCYTE ESTERASE**

**Specimen UA-3**

*Participant Results*

<u>Method</u>	<u>Negative</u>	<u>Trace</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	146	-	1	-	-
Arkray Aution Jet	2	-	-	-	-
Arkray Aution Sticks	7	-	-	-	-
Arkray PocketChem UA	6	-	-	-	-
Bayer Clinitek 50	6	-	-	-	-
Bayer Clinitek 500	20	-	-	-	-
Bayer Clinitek Atlas	3	-	-	-	-
Bayer Clinitek Status	1	-	-	-	-
Bayer Reagent Strips	7	-	-	-	-
Iris Diagnostics Aution Max AX-4280	2	-	-	-	-
Iris Diagnostics iChem 100	5	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-
Quidel QuickVue UrinChek	-	-	1	-	-
Roche (BMC) Chemstrips	26	-	-	-	-
Roche (BMC) Criterion Analyzer	1	-	-	-	-
Roche (BMC) Mini UA	1	-	-	-	-
Roche Miditron	10	-	-	-	-
Roche Urisys	17	-	-	-	-
Roche(BMC) SuperUA/ChemstripUA	2	-	-	-	-
UriScan Pro	2	-	-	-	-
UriScan Reagent Strips	19	-	-	-	-

**URINALYSIS DIPSTICK–NITRITE**

**Specimen UA-3**

*Participant Results*

<u>Method</u>	<u>Negative</u>	<u>Positive</u>
ALL METHODS	145	-
Arkray Aution Jet	2	-
Arkray Aution Sticks	7	-
Arkray PocketChem UA	6	-
Bayer Clinitek 50	6	-
Bayer Clinitek 500	19	-
Bayer Clinitek Atlas	3	-
Bayer Clinitek Status	1	-
Bayer Reagent Strips	7	-
Iris Diagnostics Aution Max AX-4280	2	-
Iris Diagnostics iChem 100	5	-
Iris Diagnostics vChem Urine Strips	1	-
Quidel QuickVue UrinChek	1	-
Roche (BMC) Chemstrips	25	-
Roche (BMC) Criterion Analyzer	1	-
Roche (BMC) Mini UA	1	-
Roche Miditron	10	-
Roche Urisys	17	-
Roche(BMC) SuperUA/ChemstripUA	2	-
UriScan Pro	2	-
UriScan Reagent Strips	19	-

**URINALYSIS –MICROALBUMIN (dipstick only)**

**Specimen UA-3**

*Participant Results*

<u>Method</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	2	-	-	-	1	1	3
Bayer Clinitek Microalbumin	-	-	-	-	-	-	1
Roche (BMC) Micral - 1 minute	1	-	-	-	-	1	2

**URINALYSIS –URINE hCG**

**Specimen UA-3**

*Participant Results*

<u>Method</u>	<u>Negative</u>	<u>Positive</u>
ALL METHODS	14	1
Acon Laboratories	3	-
bioMerieux VIKIA hCG-D	6	-
Other Method	5	1

ANTIMICROBIAL SUSCEPTIBILITY TESTING

Specimen SUS-11

<u>Antimicrobial</u>	-----Agar 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>	
Amikacin	10	10	-	-	36	36	-	-	100%
Amoxicillin/Clavulanate	5	4	1	-	28	26	1	1	92.73%
Ampicillin	8	-	-	8	32	-	-	32	100%
Ampicillin/Sulbactam	10	2	3	5	29	2	10	17	Not graded <sup>1</sup>
Aztreonam	4	4	-	-	15	15	-	-	100%
Carbenicillin	2	-	-	2	-	-	-	-	Not graded <sup>1</sup>
Cefaclor	1	-	1	-	-	-	-	-	Not graded <sup>1</sup>
Cefamandole	-	-	-	-	1	-	-	1	100%
Cefazolin	2	-	-	2	23	-	2	21	91.89%
Cefepime	4	4	-	-	36	35	-	1	98.15%
Cefoperazone	2	2	-	-	-	-	-	-	100%
Cefotaxime	6	6	-	-	29	26	1	2	94.34%
Cefotetan	-	-	-	-	7	7	-	-	100%
Cefoxitin	1	-	-	1	4	-	-	4	91.67%
Ceftazidime	4	4	-	-	31	28	1	2	94.83%
Ceftriaxone	9	9	-	-	29	29	-	-	98.18%
Cefuroxime	4	-	-	4	26	1	-	25	95.56%
Cephalexin	-	-	-	-	1	-	-	1	100%
Cephalothin	8	-	-	8	24	1	-	23	96.15%
Chloramphenicol	1	-	-	1	-	-	-	-	100%
Cinoxacin	-	-	-	-	1	-	-	1	100%
Ciprofloxacin	14	2	-	12	41	-	1	40	91.46%
Clindamycin	1	-	-	1	-	-	-	-	Not graded <sup>1</sup>
Ertapenem	-	-	-	-	2	2	-	-	100%
Fosfomycin	1	-	-	1	3	-	-	3	100%
Gentamicin	11	11	-	-	42	42	-	-	100%
Imipenem	6	6	-	-	41	41	-	-	100%
Levofloxacin	1	-	-	1	26	-	-	26	100%
Linezolid	2	1	-	1	-	-	-	-	Not graded <sup>1</sup>
Meropenem	3	3	-	-	16	16	-	-	100%
Methicillin	1	-	-	1	-	-	-	-	100%
Nalidixic Acid	8	-	-	8	8	-	-	8	100%
Netilmicin	-	-	-	-	2	2	-	-	100%
Nitrofurantoin	14	1	-	13	36	-	8	28	82.19%
Norfloxacin	9	-	1	8	7	-	-	7	96.43%
Ofloxacin	1	-	-	1	-	-	-	-	100%
Oxacillin	2	1	-	1	1	-	-	1	Not graded <sup>1</sup>
Penicillin	2	1	-	1	1	-	-	1	Not graded <sup>1</sup>
Piperacillin	1	-	1	-	13	9	1	3	Not graded <sup>1</sup>
Piperacillin/Tazobactam	4	4	-	-	38	38	-	-	98.28%
Rifampin	2	1	-	1	-	-	-	-	Not graded <sup>1</sup>
Sulfisoxazole	-	-	-	-	1	-	-	1	100%
Tetracycline	1	1	-	-	15	1	6	8	Not graded <sup>1</sup>
Ticarcillin	-	-	-	-	2	1	-	1	Not graded <sup>1</sup>
Ticarcillin/Clavulanate	-	-	-	-	13	13	-	-	100%
Tobramycin	1	1	-	-	27	25	-	2	95.56%
Trimethoprim	-	-	-	-	8	2	-	6	81.82%
Trimethoprim/Sulfamethoxazole	16	3	3	10	34	8	-	26	Not graded <sup>1</sup>
Vancomycin	2	1	-	1	-	-	-	-	Not graded <sup>1</sup>

Organism present in specimen SUS-11: *Klebsiella pneumoniae*.

<sup>1</sup> This is an ungraded challenge due to less than 80% participant consensus.

## PARASITOLOGY (PA Specimens)

### Specimen PA-11

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
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No labs reported PA-11.

Parasite present in specimen PA-11: *Blastocystis hominis*.

### Specimen PA-12

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
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No labs reported PA-12.

Parasite present in specimen PA-12: No parasite seen.

### Specimen PA-13

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
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Parasite larva seen but no ID	1	100%	Acceptable
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Parasite present in specimen PA-13: *Strongyloides stercoralis* larvae.

### Specimen PA-14

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
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Ascaris lumbricoides eggs	1	33.33%	Acceptable
Schistosoma mansoni eggs	1	33.33%	Acceptable
Trichuris trichiura eggs	1	33.33%	Acceptable

Parasite present in specimen PA-14: *Ascaris lumbricoides* eggs, Hookworm, *Schistosoma mansoni* eggs, *Entamoeba coli* and *Trichuris trichiura* eggs.

### Specimen PA-15

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
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No labs reported PA-15.

Parasite present in specimen PA-15: *Trypanosoma cruzi*.

## PARASITOLOGY (FP Specimens)

### Specimen FP-11

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Trichuris trichiura eggs	108	93.91%	Acceptable
Ascaris lumbricoides eggs	2	1.74%	
Entamoeba coli	2	1.74%	
Fasciola hepatica eggs	1	0.87%	
Strongyloides stercoralis larvae	1	0.87%	
No parasite seen	1	0.87%	

Parasite present in specimen FP-11: *Trichuris trichiura* eggs.

### Specimen FP-12

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Fasciola hepatica eggs	65	52.85%	Not graded
Protozoan seen but no ID	2	1.63%	
No parasite seen	12	9.76%	
Paragonimus westermani eggs	11	8.94%	
Diphyllobothrium sp. eggs	11	8.94%	
Endolimax nana	8	6.50%	
Trichuris trichiura eggs	6	4.88%	
Hookworm	2	1.63%	
Blastocystis hominis	2	1.63%	
Entamoeba coli	2	1.63%	
Enterobius vermicularis eggs	1	0.81%	
Taenia sp. eggs	1	0.81%	

Parasite present in specimen FP-12: *Fasciola hepatica* eggs. This is an ungraded challenge due to less than 80% participant consensus.

### Specimen FP-13

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Entamoeba histolytica	86	53.42%	Not graded
Entamoeba coli	19	11.80%	
Endolimax nana	12	7.45%	
Entamoeba hartmanni	9	5.59%	
Iodamoeba butschlii	7	4.35%	
No parasite seen	6	3.73%	
Blastocystis hominis	6	3.73%	
Chilomastix mesnili	4	2.48%	
Giardia lamblia	3	1.86%	
Strongyloides stercoralis larvae	3	1.86%	
Dientamoeba fragilis	2	1.24%	
Fasciola hepatica eggs	1	0.62%	
Taenia sp. eggs	1	0.62%	
Trichuris trichiura eggs	1	0.62%	
Hookworm	1	0.62%	

Parasite present in specimen FP-13: *Entamoeba histolytica*. This is an ungraded challenge due to less than 80% participant consensus.

**PARASITOLOGY (FP Specimens)**

**Specimen FP-14**

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Ascaris lumbricoides eggs	98	30.25%	Acceptable
Entamoeba coli	59	18.21%	Acceptable
Trichuris trichiura eggs	59	18.21%	Acceptable
Hookworm	50	15.43%	Acceptable
Schistosoma mansoni eggs	34	10.49%	Acceptable
Schistomsoma sp. eggs, NOS	8	2.47%	Acceptable
Parasite egg seen but no ID	4	1.23%	Acceptable
Entamoeba histolytica	5	1.54%	
Endolimax nana	2	0.62%	
Fasciola hepatica eggs	1	0.31%	
Sarcocystis sp. oocysts	1	0.31%	
Schistomsoma japonicum eggs	1	0.31%	
Strongyloides stercoralis larvae	1	0.31%	
Trichostrongylus sp. eggs	1	0.31%	

Parasites present in specimen FP-14: *Ascaris lumbricoides* eggs, *Entamoeba coli*, *Trichuris trichiura* eggs, Hookworm and *Schistosoma mansoni* eggs.

**Specimen FP-15**

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Plasmodium vivax	97	86.61%	Acceptable
Plasmodium sp., not falciparum	6	5.36%	Acceptable
Plasmodium sp., NOS	5	4.46%	Acceptable
Plasmodium falciparum	2	1.79%	
Plasmodium malariae	1	0.89%	
Plasmodium ovale	1	0.89%	

Parasite present in specimen FP-15: *Plasmodium vivax*.

**Syphilis Serology—Qualitative: VDRL Slide**

<u>Method</u>	<b>Specimen SY-11</b>			<b>Specimen SY-12</b>			<b>Specimen SY-13</b>		
	<u>Reactive</u>	<u>Weakly Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Weakly Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Weakly Reactive</u>	<u>Non-Reactive</u>
ALL METHODS	7	-	3	-	1	9	-	1	9
BioBacter	-	-	2	-	-	2	-	-	2
Other Method	1	-	1	-	-	2	-	-	2
Wiener Lab	6	-	-	-	1	5	-	1	5
<u>Method</u>	<b>Specimen SY-14</b>			<b>Specimen SY-15</b>					
	<u>Reactive</u>	<u>Weakly Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Weakly Reactive</u>	<u>Non-Reactive</u>			
ALL METHODS	9	1	-	7	-	3			
BioBacter	1	1	-	-	-	2			
Other Method	2	-	-	1	-	1			
Wiener Lab	6	-	-	6	-	-			



**Syphilis Serology—Qualitative: RPR**

<b><u>Method</u></b>	<b>Specimen SY-11</b>		<b>Specimen SY-12</b>		<b>Specimen SY-13</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	18	5	-	23	2	21
Abbott Syfacard-R	1	1	-	2	-	2
Becton Dickinson	2	1	-	3	-	3
bioMerieux	2	1	-	3	-	3
BioSystems	2	1	-	3	-	3
Omega Diagnostics	5	-	-	5	-	5
Other Method Specified	2	-	-	2	1	1
SPINREACT	2	-	-	2	1	1
Wiener Lab	1	-	-	1	-	1

  

	<b>Specimen SY-14</b>		<b>Specimen SY-15</b>	
ALL METHODS	23	-	21	2
Abbott Syfacard-R	2	-	2	-
Becton Dickinson	3	-	2	1
bioMerieux	3	-	3	-
BioSystems	3	-	2	1
Omega Diagnostics	5	-	5	-
Other Method Specified	2	-	2	-
SPINREACT	2	-	2	-
Wiener Lab	1	-	1	-

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

<u>Specimen/Method</u>	<u>1</u>	<u>2</u>	<u>4</u>	<u>8</u>	<u>16</u>	<u>32</u>	<u>64</u>	<u>&gt;64</u>
<b>Specimen SY-11</b>								
ALL METHODS	9	2	-	-	-	-	1	-
Abbott Syfacard-R	1	-	-	-	-	-	-	-
bioMerieux	2	-	-	-	-	-	-	-
BioSystems	1	-	-	-	-	-	-	-
Omega Diagnostics	1	1	-	-	-	-	1	-
Other Method Specified	1	-	-	-	-	-	-	-
SPINREACT	2	-	-	-	-	-	-	-
Wiener Lab	1	-	-	-	-	-	-	-
<b>Specimen SY-14</b>								
ALL METHODS	1	10	4	-	-	-	-	1
Abbott Syfacard-R	-	2	-	-	-	-	-	-
bioMerieux	-	2	1	-	-	-	-	-
BioSystems	1	-	1	-	-	-	-	-
Omega Diagnostics	-	2	-	-	-	-	-	1
Other Method Specified	-	1	-	-	-	-	-	-
SPINREACT	-	1	1	-	-	-	-	-
Wiener Lab	-	1	-	-	-	-	-	-
<b>Specimen SY-15</b>								
ALL METHODS	9	4	1	-	-	-	-	1
Abbott Syfacard-R	1	1	-	-	-	-	-	-
bioMerieux	3	-	-	-	-	-	-	-
BioSystems	-	1	-	-	-	-	-	-
Omega Diagnostics	1	1	-	-	-	-	-	1
Other Method Specified	1	-	-	-	-	-	-	-
SPINREACT	2	-	-	-	-	-	-	-
Wiener Lab	1	-	-	-	-	-	-	-

**Viral Markers – Anti-HBc**

<b><u>Method</u></b>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</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	-	43	1	42	2	41
Abbott Architect	-	3	-	3	-	3
Abbott AxSYM	-	2	-	2	-	2
Abbott AxSYM - IgM	-	2	-	2	-	2
Abbott AxSYM - Total	-	14	-	14	-	14
Abbott IMx	-	1	-	1	-	1
Bayer ADVIA Centaur	-	1	1	-	-	1
Beckman ACCESS / Dxl	-	1	-	1	-	1
bioMerieux Vitek, Mini Vidas	-	1	-	1	-	1
Bio-Rad Evolis	-	2	-	2	-	2
DiaSorin	-	1	-	1	1	-
Other IgG Method	-	2	-	2	1	1
Other Total Method	-	4	-	4	-	4
Roche Elecsys - IgM	-	1	-	1	-	1
Roche Elecsys 1010/2010	-	2	-	2	-	2
Roche Modular Analytics	-	1	-	1	-	1
VITROS Eci	-	4	-	4	-	4

  

	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>	
ALL METHODS	39	4	38	5
Abbott Architect	3	-	3	-
Abbott AxSYM	2	-	2	-
Abbott AxSYM - IgM	-	2	-	2
Abbott AxSYM - Total	13	1	13	1
Abbott IMx	1	-	1	-
Bayer ADVIA Centaur	1	-	1	-
Beckman ACCESS / Dxl	1	-	1	-
bioMerieux Vitek, Mini Vidas	1	-	1	-
Bio-Rad Evolis	2	-	2	-
DiaSorin	1	-	1	-
Other IgG Method	2	-	2	-
Other Total Method	4	-	4	-
Roche Elecsys - IgM	-	1	-	1
Roche Elecsys 1010/2010	2	-	2	-
Roche Modular Analytics	1	-	1	-
VITROS Eci	4	-	3	1

**Viral Markers – Anti-HIV**

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	57	-	1	56	2	55
Abbott Architect	5	-	-	5	-	5
Abbott AxSYM	3	-	-	3	-	3
Abbott AxSYM - IgM	1	-	-	1	-	1
Abbott AxSYM - Total	14	-	1	13	2	12
Bayer ADVIA Centaur	1	-	-	1	-	1
Beckman ACCESS / Dxl	1	-	-	1	-	1
bioMerieux Vidas - IgM	1	-	-	1	-	1
bioMerieux Vitek, Mini Vidas	3	-	-	3	-	3
Bio-Rad Evolis	2	-	-	2	-	2
Other IgG Method	1	-	-	1	-	1
Other Total Method	10	-	-	10	-	10
Roche Elecsys 1010/2010	8	-	-	8	-	8
Roche Modular Analytics	1	-	-	1	-	1
VITROS ECI	5	-	-	5	-	5
	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>			
ALL METHODS	-	56	1	54		
Abbott Architect	-	5	-	5		
Abbott AxSYM	-	3	-	3		
Abbott AxSYM - IgM	-	1	-	1		
Abbott AxSYM - Total	-	13	-	13		
Bayer ADVIA Centaur	-	1	-	1		
Beckman ACCESS / Dxl	-	1	-	1		
bioMerieux Vidas - IgM	-	1	-	1		
bioMerieux Vitek, Mini Vidas	-	3	-	3		
Bio-Rad Evolis	-	2	-	2		
Other IgG Method	-	1	-	1		
Other Total Method	-	10	1	9		
Roche Elecsys 1010/2010	-	8	-	8		
Roche Modular Analytics	-	1	-	1		
VITROS ECI	-	5	-	4		

## Viral Markers – HAV

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	38	1	38	1	38
Abbott Architect - IgG	-	2	-	2	-	2
Abbott AxSYM	1	3	1	3	1	3
Abbott AxSYM - IgM	-	5	-	5	-	5
Abbott AxSYM - Total	-	6	-	6	-	6
bioMerieux Vidas - IgM	-	3	-	3	-	3
bioMerieux Vitek, Mini Vidas	-	2	-	2	-	2
Other IgG Method	-	2	-	2	-	2
Other IgM method	-	1	-	1	-	1
Other Total Method	-	1	-	1	-	1
Roche Elecsys - IgM	-	4	-	4	-	4
Roche Elecsys 1010/2010	-	5	-	5	-	5
Roche Modular Analytics	-	1	-	1	-	1
VITROS ECi - IgM	-	2	-	2	-	2
	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>			
ALL METHODS	-	38	2	37		
Abbott Architect - IgG	-	2	1	1		
Abbott AxSYM	-	4	-	4		
Abbott AxSYM - IgM	-	4	-	5		
Abbott AxSYM - Total	-	6	-	6		
bioMerieux Vidas - IgM	-	3	-	3		
bioMerieux Vitek, Mini Vidas	-	2	-	2		
Other IgG Method	-	2	-	2		
Other IgM method	-	1	-	1		
Other Total Method	-	1	-	1		
Roche Elecsys - IgM	-	4	-	4		
Roche Elecsys 1010/2010	-	5	1	4		
Roche Modular Analytics	-	1	-	1		
VITROS ECi - IgM	-	2	-	2		

**Viral Markers – HBeAg**

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	19	1	19	1	19
Abbott AxSYM	-	1	-	1	-	1
Abbott AxSYM - Total	-	6	1	5	1	5
bioMerieux Vitek, Mini Vidas	-	1	-	1	-	1
DiaSorin	-	1	-	1	-	1
Other IgG Method	-	1	-	1	-	1
Other Total Method	-	2	-	2	-	2
Roche Elecsys 1010/2010	-	3	-	3	-	3
Roche Modular Analytics	-	1	-	1	-	1
VITROS ECI	1	3	-	4	-	4
	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>			
ALL METHODS	2	18	2	18		
Abbott AxSYM	-	1	-	1		
Abbott AxSYM - Total	-	6	1	5		
bioMerieux Vitek, Mini Vidas	1	-	-	1		
DiaSorin	-	1	-	1		
Other IgG Method	-	1	-	1		
Other Total Method	-	2	-	2		
Roche Elecsys 1010/2010	-	3	-	3		
Roche Modular Analytics	-	1	-	1		
VITROS ECI	1	3	1	3		



**Viral Markers – Anti-HBsAg**

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	58	-	3	55	4	54
Abbott Architect	5	-	1	4	-	5
Abbott AxSYM	2	-	-	2	1	1
Abbott AxSYM - IgM	1	-	-	1	-	1
Abbott AxSYM - Total	14	-	2	12	1	13
Bayer ADVIA Centaur	2	-	-	2	-	2
Beckman ACCESS / Dxl	1	-	-	1	-	1
bioMerieux Vitek, Mini Vidas	3	-	-	3	-	3
Bio-Rad Evolis	2	-	-	2	-	2
DiaSorin	1	-	-	1	-	1
Other IgG Method	2	-	-	2	-	2
Other Total Method	9	-	-	9	-	9
Roche Elecsys 1010/2010	9	-	-	9	-	9
VITROS ECI	5	-	-	5	2	3

<u>Method</u>	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	56	1	57	-
Abbott Architect	5	-	5	-
Abbott AxSYM	2	-	2	-
Abbott AxSYM - IgM	1	-	1	-
Abbott AxSYM - Total	12	1	13	-
Bayer ADVIA Centaur	2	-	2	-
Beckman ACCESS / Dxl	1	-	1	-
bioMerieux Vitek, Mini Vidas	3	-	3	-
Bio-Rad Evolis	2	-	2	-
DiaSorin	1	-	1	-
Other IgG Method	2	-	2	-
Other Total Method	9	-	9	-
Roche Elecsys 1010/2010	9	-	9	-
VITROS ECI	5	-	5	-

**Viral Markers – HCV**

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	45	1	45	-	46
Abbott Architect	-	3	-	3	-	3
Abbott Architect - IgG	-	2	-	2	-	2
Abbott AxSYM	-	2	-	2	-	2
Abbott AxSYM - IgM	-	1	-	1	-	1
Abbott AxSYM - Total	-	14	-	14	-	14
Acon Laboratories	-	1	-	1	-	1
Bayer ADVIA Centaur	-	2	-	2	-	2
Bio-Rad Evolis	-	2	-	2	-	2
Other IgG Method	-	3	-	3	-	3
Other IgM method	-	1	-	1	-	1
Other Total Method	1	7	1	7	-	8
VITROS ECi	-	5	-	5	-	5
Wiener Lab	-	1	-	1	-	1

  

	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	4	42	3	43
Abbott Architect	-	3	-	3
Abbott Architect - IgG	-	2	-	2
Abbott AxSYM	-	2	-	2
Abbott AxSYM - IgM	-	1	-	1
Abbott AxSYM - Total	1	13	1	13
Acon Laboratories	-	1	-	1
Bayer ADVIA Centaur	-	2	-	2
Bio-Rad Evolis	-	2	-	2
Other IgG Method	-	3	-	3
Other IgM method	-	1	-	1
Other Total Method	3	5	2	6
VITROS ECi	-	5	-	5
Wiener Lab	-	1	-	1

## Blood Gases – pH

<u>Method</u>	Specimen BG-11					Specimen BG-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	7.148	0.022	0.3	7.15	20	7.160	0.021	0.3	7.16
AVL OMNI	6	7.142	0.013	0.2	7.14	6	7.153	0.012	0.2	7.16
Chiron Diagnostics 248	5	7.144	0.040	0.6	7.17	5	7.154	0.040	0.6	7.18

<u>Method</u>	Specimen BG-13					Specimen BG-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	19	7.806	0.035	0.4	7.82	20	7.578	0.025	0.3	7.58
AVL OMNI	6	7.738	0.059	0.8	7.76	6	7.550	0.009	0.1	7.55
Chiron Diagnostics 248	5	7.820	0.028	0.4	7.83	5	7.594	0.023	0.3	7.60

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	6.876	0.014	0.2	6.88
AVL OMNI	6	6.888	0.010	0.1	6.89
Chiron Diagnostics 248	5	6.872	0.004	0.1	6.87

## Blood Gases - pCO<sub>2</sub> (mmHg)

<u>Method</u>	Specimen BG-11					Specimen BG-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	19	71.87	2.94	4.1	71.6	20	69.11	3.33	4.8	69.1
AVL OMNI	6	73.83	3.08	4.2	72.8	6	71.45	3.88	5.4	69.8
Chiron Diagnostics 248	5	71.26	1.04	1.5	71.1	5	67.50	2.26	3.3	67.9

<u>Method</u>	Specimen BG-13					Specimen BG-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	12.17	1.36	11.2	12.7	20	21.94	1.42	6.5	22.3
AVL OMNI	6	13.45	0.55	4.1	13.8	6	23.35	0.84	3.6	23.4
Chiron Diagnostics 248	5	10.70	0.43	4.0	10.7	5	20.48	0.97	4.7	20.7

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	88.34	3.91	4.4	89.5
AVL OMNI	6	88.12	3.79	4.3	87.8
Chiron Diagnostics 248	5	88.78	3.70	4.2	90.3

## Blood Gases - pO<sub>2</sub> (mmHg)

<u>Method</u>	Specimen BG-11					Specimen BG-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	63.37	14.59	23.0	62.4	20	62.86	14.86	23.6	58.9
AVL OMNI	6	74.37	19.56	26.3	79.5	6	75.02	20.59	27.4	79.4
Chiron Diagnostics 248	5	62.62	4.90	7.8	64.8	5	58.90	3.34	5.7	57.5

<u>Method</u>	Specimen BG-13					Specimen BG-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	467.32	30.25	6.5	464.0	19	141.87	8.16	5.8	141.7
AVL OMNI	6	466.57	52.43	11.2	447.0	6	149.05	20.50	13.8	146.7
Chiron Diagnostics 248	5	472.88	16.44	3.5	470.5	5	141.88	5.21	3.7	141.7

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	29.26	19.19	65.6	24.3
AVL OMNI	6	44.85	28.03	62.5	54.2
Chiron Diagnostics 248	5	23.94	2.64	11.0	23.9

**Blood Gases - Ionized Calcium (mmol/L)**

<u>Method</u>	<b>Specimen BG-11</b>					<b>Specimen BG-12</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	11	1.401	0.044	3.1	1.41	11	1.288	0.431	33.5	1.39
Other Instrument Specified	7	1.200	0.532	44.3	1.41	6	1.195	0.589	49.3	1.43

**Blood Gases - Chloride (mmol/L)**

<u>Method</u>	<b>Specimen BG-11</b>					<b>Specimen BG-12</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	7	77.0	3.1	4.0	78	7	78.4	3.0	3.9	78
<u>Method</u>	<b>Specimen BG-13</b>					<b>Specimen BG-14</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	7	130.0	4.1	3.1	132	7	120.3	3.9	3.3	121
<u>Method</u>	<b>Specimen BG-15</b>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	7	68.4	3.7	5.4	66					

**Blood Gases - Potassium (mmol/L)**

<u>Method</u>	<b>Specimen BG-11</b>					<b>Specimen BG-12</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	1.81	0.08	4.3	1.8	9	1.83	0.13	7.2	1.8
<u>Method</u>	<b>Specimen BG-13</b>					<b>Specimen BG-14</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	1.54	0.14	9.2	1.5	9	6.26	0.13	2.1	6.3
<u>Method</u>	<b>Specimen BG-15</b>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	7	11.47	0.40	3.5	11.3					

**Blood Gases - Sodium (mmol/L)**

<u>Method</u>	<b>Specimen BG-11</b>					<b>Specimen BG-12</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	111.2	2.9	2.7	112	9	112.6	2.7	2.4	113
<u>Method</u>	<b>Specimen BG-13</b>					<b>Specimen BG-14</b>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	166.0	2.1	1.2	166	9	156.3	1.8	1.2	156
<u>Method</u>	<b>Specimen BG-15</b>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	86.3	3.1	3.6	88					

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