

MEDICAL LABORATORY

EVALUATION

INTERNATIONAL  
PARTICIPANT SUMMARY

2 • 0 • 0 • 3

Immunology and Chemistry  
MLE – B3



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

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## 2003 Evaluation Criteria

### Qualitative

For qualitative procedures, evaluation is based on 80% participant consensus

Infectious Mononucleosis	80% Participant Consensus
Rheumatoid Factor	80% Participant Consensus
Anti-Streptolysin O (ASO)	80% Participant Consensus
C-Reactive Protein	80% Participant Consensus
Syphilis Serology	80% Participant Consensus
H. <i>pylori</i> Antibody Detection	80% Participant Consensus
Viral Markers	80% Participant Consensus

### Quantitative

For quantitative procedures, a mean and standard deviation (SD) are calculated for each analyte's "All Method" group. Acceptable performance is established 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 44-45 under the heading "Acceptable Ranges for Quantitative Results."

Acid Phosphatase	$\pm 3$ SD	LDL Cholesterol	$\pm 3$ SD
Albumin	$\pm 3$ SD	Lipase	Not Evaluated
Alkaline Phosphatase	$\pm 3$ SD	LH	$\pm 3$ SD
Alpha-fetoprotein	$\pm 3$ SD	Magnesium	$\pm 3$ SD
ALT (SGPT)	$\pm 3$ SD	Myoglobin	$\pm 3$ SD
Amylase	$\pm 3$ SD	pCO <sub>2</sub>	$\pm 3$ SD
Anti-Streptolysin O (Titer)	Not Evaluated	Phosphorus	$\pm 3$ SD
Anti-Streptolysin O (Int. Units)	Not Evaluated	pH	$\pm 3$ SD
AST (SGOT)	$\pm 3$ SD	pO <sub>2</sub>	$\pm 3$ SD
Bilirubin, Direct	$\pm 3$ SD	Potassium	$\pm 3$ SD
Bilirubin, Total	$\pm 3$ SD	Prolactin	$\pm 3$ SD
C-Reactive Protein	$\pm 3$ SD	Progesterone	$\pm 3$ SD
CA 125	$\pm 3$ SD	Protein, Total	$\pm 3$ SD
CA 15-3	$\pm 3$ SD	PSA	$\pm 3$ SD
Calcium	$\pm 3$ SD	PSA, Free	$\pm 3$ SD
Calcium, Ionized	$\pm 3$ SD	Rheumatoid Factor (Titer)	Not Evaluated
CEA	$\pm 3$ SD	Rheumatoid Factor (Int. Units)	Not Evaluated
Cholesterol	$\pm 3$ SD	Rubella (Int. Units)	Not Evaluated
Chloride	$\pm 3$ SD	Sodium	$\pm 3$ SD
CK-MB	$\pm 3$ SD	Syphilis Serology (Titer)	Not Evaluated
CO <sub>2</sub>	$\pm 3$ SD	T <sub>3</sub> Uptake (% Uptake)	$\pm 3$ SD
Cortisol	$\pm 3$ SD	T <sub>3</sub> , Free	$\pm 3$ SD
Creatine Kinase	$\pm 3$ SD	T <sub>4</sub> , Free	$\pm 3$ SD
Creatinine	$\pm 3$ SD	Testosterone	$\pm 3$ SD
Estradiol	$\pm 3$ SD	Thyroxine, Total T <sub>4</sub>	$\pm 3$ SD
Ferritin	$\pm 3$ SD	TIBC	$\pm 3$ SD
Folate	$\pm 3$ SD	Triglyceride	$\pm 3$ SD
FSH	$\pm 3$ SD	Triiodothyronine, Total T <sub>3</sub>	$\pm 3$ SD
GGT	$\pm 3$ SD	Troponin I	Not Evaluated
Glucose, Serum	$\pm 3$ SD	TSH	$\pm 3$ SD
HDL Cholesterol	$\pm 3$ SD	Urea Nitrogen	$\pm 3$ SD
HCG, Serum—Quantitative	$\pm 3$ SD	Uric Acid	$\pm 3$ SD
Iron	$\pm 3$ SD	Vitamin B <sub>12</sub>	$\pm 3$ SD
Lactate Dehydrogenase	$\pm 3$ SD		

## Infectious Mononucleosis

<u>Method</u>	<b>Specimen IM-11</b>		<b>Specimen IM-12</b>		<b>Specimen IM-13</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	3	1	1	3	3	1
Omega Diagnostics	1	-	-	1	1	-
Stanbio	2	-	-	2	2	-

  

<u>Method</u>	<b>Specimen IM-14</b>		<b>Specimen IM-15</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	1	3	3	1
Omega Diagnostics	-	1	1	-
Stanbio	-	2	2	-

Specimens IM-11 – IM-15 are ungraded challenges due to a lack of participant consensus.

## Rheumatoid Factor—Qualitative

<u>Method</u>	<b>Specimen RF-11</b>		<b>Specimen RF-12</b>		<b>Specimen RF-13</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	5	5	-	-	5
Omega Diagnostics	-	2	2	-	-	2
Roche Modular Analytics	-	1	1	-	-	1
Stanbio	-	1	1	-	-	1

  

<u>Method</u>	<b>Specimen RF-14</b>		<b>Specimen RF-15</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	5	-	-	5
Omega Diagnostics	2	-	-	2
Roche Modular Analytics	1	-	-	1
Stanbio	1	-	-	1

## Rheumatoid Factor—Quantitative (Titer)

This portion is not evaluated. Results reported are as follows:

<u>Specimen/Method</u>	<u>2/4</u>	<u>8/10</u>	<u>16/20</u>	<u>32/40</u>	<u>64/80</u>	<u>128/160</u>	<u>256/320</u>	<u>512/640</u>	<u>1024/1280</u>	<u>2048/2560</u>	<u>&gt;2560</u>
<b>Specimen RF-11</b>											
All Methods	1	-	-	-	-	-	-	-	-	-	-
<b>Specimen RF-13</b>											
All Methods	1	-	-	-	-	-	-	-	-	-	-
<b>Specimen RF-15</b>											
All Methods	1	-	-	-	-	-	-	-	-	-	-

## Rheumatoid Factor—Quantitative (IU)

This portion is not evaluated. Results reported are as follows:

<u>Specimen/Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>
<b>Specimen RF-11</b>							
All Methods	2	-	-	-	70	68	72
Behring Nephelometer	1	-	-	-	72	72	72
<b>Specimen RF-13</b>							
All Methods	2	-	-	-	68	57	78
Behring Nephelometer	1	-	-	-	78	78	78
<b>Specimen RF-15</b>							
All Methods	2	-	-	-	77	65	88
Behring Nephelometer	1	-	-	-	88	88	88

## Anti-Streptolysin O (ASO)—Qualitative

<u>Method</u>	<u>Specimen AS-11</u>		<u>Specimen AS-12</u>		<u>Specimen AS-13</u>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	4	4	-	-	4
Omega Diagnostics	-	1	1	-	-	1
Stanbio	-	2	2	-	-	2
<b>Specimen AS-14</b>						
All Methods	4	-	-	4		
Omega Diagnostics	1	-	-	1		
Stanbio	2	-	-	2		
<b>Specimen AS-15</b>						
All Methods	-	-	-	4		
Omega Diagnostics	-	-	-	1		
Stanbio	-	-	-	2		

## Anti-Streptolysin O (ASO)—Quantitative (cont'd)

This portion is not evaluated. Results reported are as follows:

<u>Specimen/Method</u>	<u>Todd Units / International Units</u>									<u>Streptozyme</u>		
	<u>≤50</u>	<u>100</u>	<u>125</u>	<u>166-200</u>	<u>250-300</u>	<u>333-400</u>	<u>500-600</u>	<u>625</u>	<u>800-833</u>	<u>≥2500</u>	<u>100-200</u>	<u>400-800</u>
<b>Specimen AS-11</b>												
All Methods	-	-	-	-	-	1	1	-	-	1	-	-
Behring Nephelometer	-	-	-	-	-	-	-	-	-	1	-	-
Roche Modular Analytics	-	-	-	-	-	-	1	-	-	-	-	-
Stanbio	-	-	-	-	-	1	-	-	-	-	-	-
<b>Specimen AS-13</b>												
All Methods	-	-	-	-	-	2	-	-	1	-	-	-
Behring Nephelometer	-	-	-	-	-	1	-	-	-	-	-	-
Roche Modular Analytics	-	-	-	-	-	-	-	-	1	-	-	-
Stanbio	-	-	-	-	-	1	-	-	-	-	-	-

## Anti-Streptolysin O (ASO)—Quantitative (cont'd)

This portion is not evaluated. Results reported are as follows:

<u>Specimen/Method</u>	<u>Todd Units / International Units</u>									<u>Streptozyme</u>		
	<u>≤50</u>	<u>100</u>	<u>125</u>	<u>166- 200</u>	<u>250- 300</u>	<u>333- 400</u>	<u>500- 600</u>	<u>625</u>	<u>800- 833</u>	<u>≈2500</u>	<u>100- 200</u>	<u>400- 800</u>
<b>Specimen AS-15</b>												
All Methods	-	-	-	-	-	1	-	2	-	-	-	-
Behring Nephelometer	-	-	-	-	-	-	-	1	-	-	-	-
Roche Modular Analytics	-	-	-	-	-	-	-	1	-	-	-	-
Stanbio	-	-	-	-	-	1	-	-	-	-	-	-

## C-Reactive Protein<sup>3/4</sup> Qualitative

<u>Method</u>	<u>Specimen CR-5</u>		<u>Specimen CR-6</u>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	4	4	-
Omega Diagnostics	-	1	1	-
Stanbio	-	2	2	-

## C-Reactive Protein<sup>3/4</sup> Quantitative (mg/dL)

<u>Specimen/Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>
<b>Specimen CR-5</b>							
All Methods	3	-	-	-	7.20	2.19	20.40
Beckman Nephelometer	1	-	-	-	2.19	2.19	2.19
Roche Modular Analytics	1	-	-	-	7.20	7.20	7.20
<b>Specimen CR-6</b>							
All Methods	1	-	-	-	0.03	0.03	0.03
Beckman Nephelometer	1	-	-	-	0.03	0.03	0.03
Roche Modular Analytics	-	-	-	-	-	-	-

## Rubella<sup>3/4</sup>Quantitative (IU/mL)

This portion is not evaluated. Results reported are as follows:

<u>Specimen/Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>
<b>Specimen RU-11</b>							
All Methods	2	-	-	-	38.7	35.1	42.2
Abbott AxSYM	1	-	-	-	42.2	42.2	42.2
DPC – Immulite	1	-	-	-	35.1	35.1	35.1
<b>Specimen RU-12</b>							
All Methods	2	-	-	-	39.0	37.7	40.2
Abbott AxSYM	1	-	-	-	37.7	37.7	37.7
DPC – Immulite	1	-	-	-	40.2	40.2	40.2
<b>Specimen RU-13</b>							
All Methods	-	-	-	-	-	-	-
<b>Specimen RU-14</b>							
All Methods	-	-	-	-	-	-	-
<b>Specimen RU-15</b>							
All Methods	2	-	-	-	38.5	35.7	41.3
Abbott AxSYM	1	-	-	-	41.3	41.3	41.3
DPC – Immulite	1	-	-	-	35.7	35.7	35.7

## Syphilis Serology – VDRL Slide

<u>Method</u>	<u>Specimen SY-11</u>		<u>Specimen SY-12</u>		<u>Specimen SY-13</u>	
	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>
All Methods	-	1	1	-	-	1
<b>Specimen SY-14</b>						
All Methods	1	-	-	1		

## Syphilis Serology - MHA-TP

<u>Method</u>	<u>Specimen SY-11</u>		<u>Specimen SY-12</u>		<u>Specimen SY-13</u>	
	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>
All Methods	-	2	2	-	-	2
SPINREACT	-	2	2	-	-	2
<b>Specimen SY-14</b>						
All Methods	2	-	-	2		
SPINREACT	2	-	-	2		

## Syphilis Serology - Qualitative: RPR

<u>Method</u>	Specimen SY-11		Specimen SY-12		Specimen SY-13	
	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>
All Methods	-	9	9	-	-	9
SPINREACT	-	9	9	-	-	9
<u>Method</u>	Specimen SY-14		Specimen SY-15			
	<u>Reactive</u>	<u>Non-Reactive</u>	<u>Reactive</u>	<u>Non-Reactive</u>		
All Methods	9	-	-	9		
SPINREACT	9	-	-	9		

## Syphilis Serology - Quantitative: RPR (Titer)

This portion is not evaluated. Results reported are as follows:

<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-12</b>								
All Methods	3	3	2	-	-	-	-	1
SPINREACT	3	3	2	-	-	-	-	1
<b>Specimen SY-14</b>								
All Methods	3	2	2	-	-	-	-	1
SPINREACT	3	2	2	-	-	-	-	1

## H. pylori Antibody Detection

<u>Method</u>	Specimen HP-5		Specimen HP-6	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	1	-	-	-

## Viral Markers – Anti-HBc

<u>Method</u>	Specimen VM-11		Specimen VM-12		Specimen VM-13	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	4	2	6	-	1	5
Abbott AxSYM	1	1	2	-	-	2
bioMerieux Vitek, Mini Vidas	3	1	4	-	1	3

<u>Method</u>	Specimen VM-14		Specimen VM-15	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	3	3	1	4
Abbott AxSYM	1	1	1	1
bioMerieux Vitek, Mini Vidas	2	2	-	3

Specimens VM-11 and VM-14 are ungraded challenges due to less than 80% participant consensus.

## Viral Markers – Anti-HIV

<u>Method</u>	Specimen VM-11		Specimen VM-12		Specimen VM-13	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	7	-	7	-	7	-
Abbott AxSYM	2	-	2	-	2	-
bioMerieux Vitek, Mini Vidas	5	-	5	-	5	-
	Specimen VM-14		Specimen VM-15			
All Methods	7	-	-	7		
Abbott AxSYM	2	-	-	2		
bioMerieux Vitek, Mini Vidas	5	-	-	5		

## Viral Markers – HAV

<u>Method</u>	Specimen VM-11		Specimen VM-12		Specimen VM-13	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	6	-	5	1	4	2
Abbott AxSYM	3	-	2	1	2	1
bioMerieux Vitek, Mini Vidas	3	-	3	-	2	1
	Specimen VM-14		Specimen VM-15			
All Methods	1	5	4	2		
Abbott AxSYM	-	3	2	1		
bioMerieux Vitek, Mini Vidas	1	2	2	1		

Specimens VM-11, 12, 13 and 15 are IGM negative. Specimens VM-13 and VM-15 are ungraded challenges due to less than 80% participant consensus.

## Viral Markers – HbeAg

<u>Method</u>	Specimen VM-11		Specimen VM-12		Specimen VM-13	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	4	-	4	-	1	3
Abbott AxSYM	1	-	1	-	-	1
bioMerieux Vitek, Mini Vidas	3	-	3	-	1	2
	Specimen VM-14		Specimen VM-15			
All Methods	3	1	4	-		
Abbott AxSYM	1	-	1	-		
bioMerieux Vitek, Mini Vidas	2	1	3	-		

Specimens VM-13 and VM-14 are ungraded challenges due to less than 80% participant consensus.

## Viral Markers – HbsAb

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	4	-	-	4	4	-
Abbott AxSYM	3	-	-	3	3	-
bioMerieux Vitek, Mini Vidas	1	-	-	1	1	-
	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>			
All Methods	-	4	-	4		
Abbott AxSYM	-	3	-	3		
bioMerieux Vitek, Mini Vidas	-	1	-	1		

## Viral Markers – HbsAg

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	7	-	7	-	1	6
Abbott AxSYM	3	-	3	-	-	3
bioMerieux Vitek, Mini Vidas	4	-	4	-	1	3
	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>			
All Methods	5	2	6	1		
Abbott AxSYM	2	1	2	1		
bioMerieux Vitek, Mini Vidas	3	1	4	-		

Specimen VM-14 is an ungraded challenge due to less than 80% participant consensus.

## Viral Markers – HCV

<u>Method</u>	<b>Specimen VM-11</b>		<b>Specimen VM-12</b>		<b>Specimen VM-13</b>	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	4	-	-	4	4	1
Abbott AxSYM	1	-	-	2	2	-
Abbott Imx	1	-	-	1	-	1
Roche Cobas CORE	1	-	-	-	1	-
	<b>Specimen VM-14</b>		<b>Specimen VM-15</b>			
All Methods	1	4	4	1		
Abbott AxSYM	-	2	2	-		
Abbott Imx	-	1	-	1		
Roche Cobas CORE	1	-	1	-		

**Albumin (g/dL)**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11</u>				<u>Specimen CH-12</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 Methods	9	3.27	0.42	12.8	3.3	9	2.47	0.39	15.7	2.5
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13</u>				<u>Specimen CH-14</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 Methods	9	1.66	0.30	18.4	1.8	9	3.86	0.51	13.3	3.9
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-15</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 Methods	9	2.61	0.39	14.9	2.7					

**Bilirubin, Direct (mg/dL)**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11</u>				<u>Specimen CH-12</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 Methods	9	0.38	0.22	57.4	0.4	9	0.91	0.34	37.8	0.9

**Bilirubin, Total (mg/dL)**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11</u>				<u>Specimen CH-12</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 Methods	9	0.93	0.13	14.2	0.9	9	2.08	0.18	8.6	2.1
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13</u>				<u>Specimen CH-14</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 Methods	9	3.48	0.35	10.0	3.5	9	1.28	0.15	11.6	1.3
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-15</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 Methods	9	0.54	0.13	24.5	0.6					

**Calcium (mg/dL)**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11</u>				<u>Specimen CH-12</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 Methods	7	9.36	0.30	3.3	9.4	7	9.56	0.39	4.1	9.4
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13</u>				<u>Specimen CH-14</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 Methods	7	9.63	0.42	4.3	9.5	7	5.50	0.66	11.9	5.5
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-15</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 Methods	7	13.36	0.34	2.6	13.3					

**Creatinine (mg/dL)**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11</u>				<u>Specimen CH-12</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 Methods	9	1.43	0.46	32.4	1.6	9	4.12	0.52	12.6	4.3
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13</u>				<u>Specimen CH-14</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 Methods	9	6.67	0.78	11.8	6.7	9	0.87	0.22	25.2	0.9
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-15</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 Methods	8	2.33	0.33	14.1	2.4					

**Glucose (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	148.9	8.9	5.9	148	9	125.0	8.5	6.8	124
<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	101.9	7.4	7.3	102	9	44.4	4.3	9.8	44
<u>Reagent/Instrument</u>	Specimen CH-15									
	<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 Methods	9	253.1	13.5	5.3	251					

**Iron (mcg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	2	-	-	-	342	2	-	-	-	216
<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	2	-	-	-	88	2	-	-	-	442
<u>Reagent/Instrument</u>	Specimen CH-15									
	<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 Methods	2	-	-	-	226					

**Magnesium (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	5	2.28	0.28	12.2	2.2	5	4.18	0.47	11.1	4.2
<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	5	6.20	0.86	13.9	6.4	5	2.88	0.18	6.2	2.9
<u>Reagent/Instrument</u>	Specimen CH-15									
	<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 Methods	5	1.54	0.34	22.3	1.4					

**Phosphorus (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	2.70	0.26	9.6	2.7	7	4.16	0.28	6.6	4.2

**Protein, Total (g/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	7.01	0.50	7.1	7.0	9	5.31	0.35	6.6	5.3
<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	3.57	0.22	6.3	3.6	9	8.17	0.87	10.6	8.3
<u>Reagent/Instrument</u>	Specimen CH-15									
	<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 Methods	9	5.58	0.64	11.4	5.7					

**TIBC (mcg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	1	-	-	-	475	1	-	-	-	344

**Urea Nitrogen (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	34.1	18.7	54.8	31	9	25.8	10.2	39.6	22
<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	14.2	5.4	38.3	13	9	23.0	8.4	36.4	19
<u>Reagent/Instrument</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	9	52.3	20.6	39.4	44					

**Uric Acid (mg/dL)**

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	7.14	0.38	5.3	7.1	9	6.74	0.58	8.6	6.7
<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	6.18	0.49	8.0	6.0	9	1.91	0.28	14.4	1.8
<u>Reagent/Instrument</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	9	12.70	0.64	5.0	12.5					

**Chloride (mmol/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	5	105.2	6.6	6.2	101	5	108.2	6.4	5.9	105
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	5	110.8	5.8	5.2	108	5	122.6	8.4	6.8	120
<u>Method/Instrument</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	5	90.2	6.8	7.5	88					

**CO<sub>2</sub> (mmol/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	3	-	-	-	29	3	-	-	-	30

## Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	3.33	0.24	7.3	3.4	7	4.77	0.11	2.3	4.8
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	7	6.20	0.24	4.0	6.2	7	4.60	0.10	2.2	4.6
<u>Method/Instrument</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	7	2.10	0.15	7.3	2.2					

## Sodium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	138.7	4.3	3.1	138	7	138.9	2.3	1.7	138
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	7	138.3	3.1	2.3	137	7	162.0	1.6	1.0	162
<u>Method/Instrument</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	7	117.0	2.6	2.2	117					

## Serum hCG - Quantitative (mIU/mL)

The vendor assay values for specimens HCG-12, HCG-14 and HCG-15 are <2.0 mIU/mL, <2.0 mIU/mL and <2.0 mIU/mL, respectively.

<u>Method</u>	Specimen HCG-11					Specimen HCG-13				
	<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 Methods	1	-	-	-	410	1	-	-	-	6098

## Acid Phosphatase (IU/L)

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	1	-	-	-	1.0	-	-	-	-	-

## ALT (SGPT) (IU/L)

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	225.0	29.8	13.3	233	9	124.8	20.7	16.6	116
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	29.3	9.6	32.7	23	9	94.0	14.3	15.2	87
<u>Method/Instrument</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	9	359.1	46.5	13.0	356					

**Alkaline Phosphatase (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	444.6	228.1	51.3	329	9	243.6	124.2	51.0	181
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	59.2	31.4	53.0	47	9	201.9	106.3	52.6	145
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	8	470.3	233.8	49.7	474					

**AST (SGOT) (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	194.0	59.2	30.5	162	9	108.7	36.7	33.7	95
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	23.2	8.1	34.8	20	9	87.6	31.6	36.1	73
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	9	315.4	77.0	24.4	275					

**Creatine Kinase (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	5	321.0	40.5	12.6	313	5	182.2	25.6	14.1	187
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	5	43.4	13.9	32.0	43	5	494.8	80.5	16.3	479
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	5	145.6	16.7	11.58	156					

**GGT (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	218.9	54.5	24.9	212	7	129.0	29.4	22.8	119

**Amylase (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	336.0	98.5	29.3	326	7	220.7	64.7	29.3	213
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	7	98.3	30.3	30.9	95	7	171.3	46.2	27.0	170
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	7	514.4	160.8	31.3	484					

**Lactate Dehydrogenase (LDH) (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	778.6	489.6	62.9	422	7	500.7	313.0	62.5	275
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	7	212.6	131.2	61.7	127	7	424.9	258.8	60.9	241
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	7	1159.6	742.9	64.1	668					

**Lipase (IU/L)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	423.7	450.8	106.4	329	7	264.9	275.2	103.9	210

**Cortisol (mcg/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	1	-	-	-	221.3	1	-	-	-	158.5
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	1	-	-	-	64.3	1	-	-	-	254.9
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	1	-	-	-	217.0					

**T Uptake (uptake units)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	1	-	-	-	0.35	1	-	-	-	0.31
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	1	-	-	-	0.20	1	-	-	-	0.46
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	1	-	-	-	0.31					

**Triiodothyronine (ng/mL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	6	4.68	2.04	43.5	4.3	6	3.25	1.55	47.6	2.9
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	6	1.68	1.68	99.5	1.0	6	5.77	2.64	45.8	5.3
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	6	3.38	1.68	49.6	2.8					

**Free T<sub>3</sub> (pg/mL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	2	-	-	-	5.6	2	-	-	-	3.7

**Thyroxine (mcg/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	6	9.55	1.20	12.5	9.5	6	6.28	0.95	15.2	6.2
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	6	6.58	9.49	144.2	3.0	6	13.33	1.93	14.5	12.7
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	6	6.88	0.91	13.2	7.0					

**Free Thyroxine (ng/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	3	-	-	-	2.9	3	-	-	-	1.9
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	3	-	-	-	0.9	3	-	-	-	3.4
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	3	-	-	-	1.9					

**TSH (mU/mL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	5.21	0.79	15.1	5.3	7	3.21	0.31	9.6	3.3
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	7	1.14	0.10	8.5	1.1	7	8.04	1.24	15	7.9
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	7	2.34	0.21	9.2	2.3					

**Cholesterol, Total (mg/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	227.1	19.2	8.5	226	9	168.1	12.6	7.5	166
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	112.8	9.2	8.2	114	9	243.9	15.0	6.2	240
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	9	208.4	14.6	7.0	204					

**LDL Cholesterol (mg/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	6	130.0	56.2	43.2	155	6	92.3	38.2	41.4	106

**Cholesterol, HDL (mg/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	7	47.9	16.1	33.7	48	7	36.7	9.0	24.4	38
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	7	28.3	6.3	22.2	29	7	55.3	22.3	40.3	55
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	7	43.6	9.1	20.8	46					

**Triglycerides (mg/dL)**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	9	166.8	14.0	8.4	160	9	131.2	10.8	8.3	130
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	9	97.2	9.2	9.5	97	9	199.1	16.7	8.4	194
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	9	136.4	8.3	6.1	137					

**Blood Gases – pH**

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	3	-	-	-	7.09	3	-	-	-	7.40
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	3	-	-	-	7.11	3	-	-	-	7.21
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	3	-	-	-	7.17					

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

<u>Method/Instrument</u>	Specimen CH-11					Specimen CH-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 Methods	3	-	-	-	22.4	3	-	-	-	44.2
<u>Method/Instrument</u>	Specimen CH-13					Specimen CH-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 Methods	3	-	-	-	19.1	3	-	-	-	24.9
<u>Method/Instrument</u>	Specimen CH-15									
	<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 Methods	3	-	-	-	48.9					

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

<u>Method/Instrument</u>	<u>Labs</u>	Specimen CH-11				Specimen CH-12				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	
All Methods	3	-	-	-	115.3	3	-	-	-	110.0
		Specimen CH-13				Specimen CH-14				
All Methods	3	-	-	-	130.0	3	-	-	-	86.3
		Specimen CH-15								
All Methods	3	-	-	-	152.8					

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

<u>Method/Instrument</u>	<u>Labs</u>	Specimen CH-11				Specimen CH-12				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	
All Methods	3	-	-	-	1.50	3	-	-	-	1.09

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

<u>Method/Instrument</u>	<u>Labs</u>	Specimen CH-11				Specimen CH-12				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	
All Methods	2	-	-	-	100	2	-	-	-	93
		Specimen CH-13				Specimen CH-14				
All Methods	2	-	-	-	110	2	-	-	-	80
		Specimen CH-15								
All Methods	2	-	-	-	76					

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

<u>Method/Instrument</u>	<u>Labs</u>	Specimen CH-11				Specimen CH-12				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	
All Methods	3	-	-	-	2.4	3	-	-	-	4.1
		Specimen CH-13				Specimen CH-14				
All Methods	3	-	-	-	1.8	3	-	-	-	4.2
		Specimen CH-15								
All Methods	3	-	-	-	2.2					

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

<u>Method/Instrument</u>	<u>Labs</u>	Specimen CH-11				Specimen CH-12				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	
All Methods	3	-	-	-	107	3	-	-	-	130
		Specimen CH-13				Specimen CH-14				
All Methods	3	-	-	-	156	3	-	-	-	118
		Specimen CH-15								
All Methods	3	-	-	-	120					



**Free PSA (ng/mL)**

<u>Method</u>	Specimen TM-11					Specimen TM-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 Methods	1	-	-	-	9.7	1	-	-	-	10.0

**PSA (ng/mL)**

<u>Method</u>	Specimen TM-11					Specimen TM-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 Methods	1	-	-	-	6.8	1	-	-	-	13.4

**CEA (ng/mL)**

<u>Method</u>	Specimen SC-5					Specimen SC-6				
	<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 Methods	1	-	-	-	8.3	1	-	-	-	16.8

**Estradiol (pg/mL)**

<u>Method</u>	Specimen SC-5					Specimen SC-6				
	<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 Methods	3	-	-	-	430	3	-	-	-	727

**FSH (mIU/mL)**

<u>Method</u>	Specimen SC-5					Specimen SC-6				
	<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 Methods	3	-	-	-	22.8	3	-	-	-	37.3

**LH (mIU/mL)**

<u>Method</u>	Specimen SC-5					Specimen SC-6				
	<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 Methods	3	-	-	-	10.0	3	-	-	-	18.8

**Progesterone (ng/mL)**

<u>Method</u>	Specimen SC-5					Specimen SC-6				
	<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 Methods	1	-	-	-	11.5	1	-	-	-	17.6

**Prolactin (ng/mL)**

<u>Method</u>	Specimen SC-5					Specimen SC-6				
	<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 Methods	3	-	-	-	7.8	3	-	-	-	12.4

**Medical Laboratory Evaluation**

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