



1169 Business Park Drive, Traverse City, MI 49686

PROFICIENCY TESTING PERFORMANCE EVALUATION 2017 Chemistry - Core - 3rd Event

Please check the reports carefully and notify API within 30 days of any corrections that must be made to your evaluation.

Customer Information

Heather Hall - Laboratory
Brown Clinic Northridge
511 14th Avenue NE
Watertown, SD 57201

API Customer Number: 39004 CLIA Number: 43D0974321
These reports have also been prepared for:
COLA (0016467)

The American Proficiency Institute evaluation reports consist of three parts: Performance Summary, Comparative Evaluation, and Participant Data Summary. The Performance Summary and Comparative Evaluation are enclosed, and the Participant Data Summary is available on our website. Click on 'Participant Data Summaries' on the left side of the screen, choose a Test Event, and select an analyte and peer group to view the statistics.

Laboratories should review the Performance Summary and Comparative Evaluation thoroughly for failures or 'not graded' analytes. Laboratories are responsible for documenting and performing corrective action for failures and must perform a self-evaluation using statistics presented in the Participant Data Summary for samples that have not been graded.

PERFORMANCE REVIEW AND CORRECTIVE ACTION

After reviewing the evaluation reports, complete the information below and attach this form along with the enclosed reports for your records.

Reviewed by (Lab Director or designee): Alexis [Signature] Date: 10/17

Corrective action taken (if indicated):

100% acceptable on all analytes
No ungraded or educational samples
Heather Hall



1159 Business Park Drive, Traverse City, MI 49886

Performance Summary

2017 Chemistry - Core - 3rd Event

Customer No: 39004

CLIA No: 43D0874321

Address:
Heather Hall - Laboratory
Brown Clinic Northridge
511 14th Avenue NE
Watertown, SD 57201

This is a summary of your proficiency testing performance for the last three test events. It is divided into sections according to specialty/sub-specialty. Unsuccessful long-term performance, where indicated, is based on unsatisfactory scores for two of three test events.

The scores for individual analytes are defined as the ratio of acceptable responses to the number of samples tested, expressed as a percentage. Unsatisfactory performance (denoted by √) is indicated for any analyte with less than 80%. Analytes that are scored for CMS are designated by (**).

CHEMISTRY	2017 1st	2017 2nd	2017 3rd	Long Term	Notes (2017 3rd)
Endocrinology					
Free Thyroxine **	100%	100%	100%		
HCG **	100%	100%	100%		
HCG (serum-qual)	100%	100%	100%		
Thyroid Stimulating Hormone **	100%	100%	100%		

CHEMISTRY	2017 1st	2017 2nd	2017 3rd	Long Term	Notes (2017 3rd)
Routine Chemistry					
Albumin **	100%	100%	100%		
Alkaline Phosphatase **	100%	100%	100%		
ALT / SGPT **	100%	100%	100%		
Amylase **	100%	100%	100%		
AST / SGOT **	100%	100%	100%		
Bilirubin, Direct	100%	100%	100%		
Bilirubin, Total **	100%	100%	100%		
BNP (CM)	100%	100%	100%		
Calcium, Total **	100%	100%	100%		
Chloride **	100%	100%	100%		
Cholesterol, HDL **	100%	100%	100%		
Cholesterol, Total **	100%	100%	100%		
CO2	100%	100%	100%		
Creatine Kinase, Isoenzyme **	100%	100%	100%		
Creatinine **	100%	100%	100%		
Glucose **	100%	100%	100%		
Glycated Hemoglobin	100%	100%	100%		
Lipase	100%	100%	100%		
Potassium **	100%	100%	100%		
Sodium **	100%	100%	100%		
Total Protein **	100%	100%	100%		
Triglycerides **	100%	100%	100%		
Troponin I (CM)	100%	100%	100%		
Urea Nitrogen **	100%	100%	100%		

Comparative Evaluation
2017 Chemistry - Core - 3rd Event

This report shows the result you reported, expected result, mean, SD (Standard Deviation), SDI (Standard Deviation Interval), and your grade for each sample tested. The SDI compares your laboratory's result to the comparison group's mean and is defined as follows:

$$SDI = \frac{\text{Reported Result} - \text{Comparison Group Mean}}{\text{Comparison Group Standard Deviation}}$$

Analytes that are scored for CMS are designated by (**).

CARDIAC MARKERS

Analyte / Method	Sample	Reported Result	Expected Result	Mean	SD	SDI	Grade
BNP (CM) (pg/mL) AleraBiositeTriage BNP Test	CM-11	1,910.0	932.2 - 2,034.6	1,483.44	183.72	2.3	Acceptable
	CM-12	398.0	257.4 - 529.2	393.28	45.28	0.1	Acceptable
	CM-13	47.4	31.5 - 66.7	49.13	5.85	-0.3	Acceptable
	CM-14	769.0	482.7 - 1,048.5	765.60	94.29	0.0	Acceptable
	CM-15	3,160.0	1,534.8 - 3,838.2	2,686.49	383.89	1.2	Acceptable
CK-MB (ng/mL) ** AleraBiositeTriageCardiac-EDTA	CM-11	24.5	10.6 - 33.5	22.05	3.80	0.6	Acceptable
	CM-12	8.8	3.7 - 11.2	7.45	1.25	1.1	Acceptable
	CM-13	3.9	0.0 - 5.8	2.78	0.55	2.0	Acceptable
	CM-14	10.7	5.9 - 19.0	12.48	2.17	-0.8	Acceptable
	CM-15	46.3	17.8 - 59.9	38.84	7.00	1.1	Acceptable
Troponin I (CM) (ng/mL) AleraBiositeTriageCardiac-EDTA	CM-11	4.83	1.26 - 8.32	4.790	1.176	0.0	Acceptable
	CM-12	0.54	0.14 - 0.94	0.539	0.131	0.0	Acceptable
	CM-13	<0.05	0.00 - 0.35	0.050	0.001		Acceptable
	CM-14	0.79	0.28 - 2.97	1.624	0.446	-1.9	Acceptable
	CM-15	8.80	4.05 - 17.88	10.966	2.302	-0.9	Acceptable

CHEMISTRY

Analyte / Method	Sample	Reported Result	Expected Result	Mean	SD	SDI	Grade
Albumin (g/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	2.7	2.5 - 3.1	2.78	0.07	-1.1	Acceptable
	CH-12	3.1	2.7 - 3.5	3.10	0.07	0.0	Acceptable
	CH-13	2.1	1.8 - 2.4	2.10	0.06	0.0	Acceptable
	CH-14	1.9	1.7 - 2.2	1.93	0.06	-0.5	Acceptable
	CH-15	2.6	2.3 - 2.9	2.62	0.07	-0.3	Acceptable
Alkaline Phosphatase (U/L) ** Siemens Dimension / S Dimension ALPI (DF150)	CH-11	238	169 - 316	242.8	7.6	-0.6	Acceptable
	CH-12	308	216 - 402	309.0	8.8	-0.1	Acceptable
	CH-13	108	77 - 144	110.7	4.3	-0.6	Acceptable
	CH-14	73	52 - 99	75.5	3.4	-0.7	Acceptable
	CH-15	206	148 - 276	212.3	7.0	-0.9	Acceptable
ALT / SGPT (U/L) ** Siemens Dimension / S Dimension ALTI-new (DF143)	CH-11	197	154 - 232	192.8	3.6	1.2	Acceptable
	CH-12	257	198 - 299	248.6	4.3	2.0	Acceptable
	CH-13	82	63 - 95	79.1	2.1	1.4	Acceptable
	CH-14	51	40 - 61	50.2	1.8	0.4	Acceptable
	CH-15	164	132 - 198	165.0	3.2	-0.3	Acceptable
Amylase (U/L) ** Siemens Dimension / Siemens Dimension reagent	CH-11	134	94 - 176	135.2	2.5	-0.5	Acceptable
	CH-12	175	121 - 227	174.0	3.1	0.3	Acceptable
	CH-13	55	38 - 72	54.9	1.3	0.1	Acceptable
	CH-14	35	24 - 45	34.4	1.0	0.6	Acceptable
	CH-15	116	80 - 151	115.4	2.2	0.3	Acceptable
AST / SGOT (U/L) ** Siemens Dimension / Siemens Dimension reagent	CH-11	200	157 - 237	197.4	5.4	0.5	Acceptable
	CH-12	260	205 - 309	257.0	6.8	0.4	Acceptable
	CH-13	78	62 - 94	77.9	2.7	0.0	Acceptable
	CH-14	47	38 - 58	47.6	2.2	-0.3	Acceptable
	CH-15	167	134 - 203	168.4	4.8	-0.3	Acceptable

Analyte / Method	Sample	Reported Result	Expected Result	Mean	SD	SDI	Grade
Bilirubin, Direct (mg/dL) Siemens Dimension / Siemens Dimension reagent	CH-11	0.7	0.2 - 1.1	0.62	0.07	1.1	Acceptable
	CH-12	0.9	0.4 - 1.2	0.80	0.08	1.3	Acceptable
	CH-13	0.4	0.0 - 0.7	0.29	0.05	2.2	Acceptable
	CH-14	0.2	0.0 - 0.7	0.21	0.04	-0.2	Acceptable
	CH-15	0.6	0.1 - 1.0	0.53	0.07	1.0	Acceptable
Bilirubin, Total (mg/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	3.1	2.3 - 3.5	2.90	0.17	1.2	Acceptable
	CH-12	4.1	3.0 - 4.6	3.76	0.22	1.5	Acceptable
	CH-13	1.3	0.8 - 1.7	1.22	0.10	0.8	Acceptable
	CH-14	0.9	0.4 - 1.3	0.82	0.08	1.0	Acceptable
	CH-15	2.6	1.9 - 3.0	2.48	0.15	0.8	Acceptable
Calcium, Total (mg/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	10.7	9.8 - 11.9	10.88	0.24	-0.8	Acceptable
	CH-12	12.3	11.2 - 13.3	12.22	0.27	0.3	Acceptable
	CH-13	8.2	7.2 - 9.3	8.26	0.19	-0.3	Acceptable
	CH-14	7.5	6.6 - 8.7	7.61	0.18	-0.6	Acceptable
	CH-15	10.1	9.2 - 11.3	10.24	0.23	-0.6	Acceptable
Chloride (mmol/L) ** Siemens Dimensn QuikLYTE- EXL	CH-11	105	99 - 111	105.0	1.1	0.0	Acceptable
	CH-12	112	104 - 116	110.3	1.2	1.4	Acceptable
	CH-13	95	88 - 99	93.8	0.9	1.3	Acceptable
	CH-14	93	86 - 96	90.9	0.9	2.3	Acceptable
	CH-15	103	97 - 108	102.2	1.0	0.8	Acceptable
Cholesterol, HDL (mg/dL) ** Siemens Dimension / Siemens Dimension AHDL DF48B	CH-11	109	74 - 139	106.7	2.9	0.8	Acceptable
	CH-12	120	83 - 156	119.3	3.3	0.2	Acceptable
	CH-13	79	56 - 105	80.7	2.3	-0.7	Acceptable
	CH-14	73	52 - 97	74.3	2.2	-0.6	Acceptable
	CH-15	98	70 - 132	100.8	2.8	-1.0	Acceptable
Cholesterol, Total (mg/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	179	158 - 195	176.5	4.3	0.6	Acceptable
	CH-12	202	178 - 219	198.4	4.7	0.8	Acceptable
	CH-13	132	117 - 144	130.7	3.6	0.4	Acceptable
	CH-14	122	107 - 132	119.1	3.4	0.9	Acceptable
	CH-15	168	148 - 182	164.8	4.3	0.3	Acceptable
CO2 (mmol/L) Siemens Dimension enzymatic	CH-11	31	23 - 34	28.5	1.8	1.4	Acceptable
	CH-12	36	26 - 39	32.4	1.9	1.9	Acceptable
	CH-13	22	14 - 25	19.5	1.6	1.6	Acceptable
	CH-14	19	12 - 22	17.2	1.5	1.2	Acceptable
	CH-15	29	20 - 32	26.0	1.8	1.7	Acceptable
Creatinine (mg/dL) ** Siemens Dimension / Siemens Dimension CRE2	CH-11	3.38	2.89 - 3.92	3.403	0.079	-0.3	Acceptable
	CH-12	4.31	3.66 - 4.96	4.313	0.096	0.0	Acceptable
	CH-13	1.58	1.29 - 1.90	1.591	0.054	-0.2	Acceptable
	CH-14	1.16	0.84 - 1.45	1.143	0.045	0.4	Acceptable
	CH-15	2.90	2.49 - 3.38	2.939	0.070	-0.6	Acceptable
Glucose (mg/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	186	171 - 210	190.4	3.5	-1.3	Acceptable
	CH-12	232	210 - 258	233.9	4.3	-0.4	Acceptable
	CH-13	99	91 - 112	101.8	2.1	-1.3	Acceptable
	CH-14	80	71 - 88	79.5	1.7	0.3	Acceptable
	CH-15	164	151 - 186	168.5	3.2	-1.4	Acceptable
Lipase (U/L) Siemens Dimension / Siemens Dimension LIPL	CH-11	186	158 - 219	188.4	5.6	-0.4	Acceptable
	CH-12	225	193 - 254	223.4	6.5	0.2	Acceptable
	CH-13	115	86 - 147	116.2	4.3	-0.3	Acceptable
	CH-14	97	67 - 128	97.4	3.8	-0.1	Acceptable
	CH-15	169	141 - 202	171.3	5.4	-0.4	Acceptable
Potassium (mmol/L) ** Siemens Dimensn QuikLYTE- EXL	CH-11	5.7	5.1 - 6.2	5.62	0.06	1.3	Acceptable
	CH-12	6.6	6.0 - 7.1	6.57	0.07	0.4	Acceptable
	CH-13	3.7	3.1 - 4.2	3.67	0.05	0.6	Acceptable
	CH-14	3.2	2.6 - 3.7	3.18	0.05	0.4	Acceptable
	CH-15	5.2	4.6 - 5.7	5.13	0.06	1.2	Acceptable

CHEMISTRY - continued

Analyte / Method	Sample	Reported Result	Expected Result	Mean	SD	SDI	Grade
Sodium (mmol/L) ** Siemens Dimension QuikLYTE- EXL	CH-11	146	140 - 149	144.5	1.4	1.1	Acceptable
	CH-12	155	149 - 158	153.7	1.5	0.9	Acceptable
	CH-13	126	120 - 129	124.7	1.2	1.1	Acceptable
	CH-14	121	115 - 124	119.8	1.2	1.0	Acceptable
	CH-15	141	135 - 144	139.4	1.3	1.2	Acceptable
Total Protein (g/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	6.5	5.7 - 7.1	6.42	0.12	0.7	Acceptable
	CH-12	7.6	6.7 - 8.3	7.50	0.14	0.7	Acceptable
	CH-13	4.2	3.7 - 4.7	4.22	0.10	-0.2	Acceptable
	CH-14	3.6	3.3 - 4.1	3.67	0.09	-0.8	Acceptable
	CH-15	5.9	5.3 - 6.5	5.89	0.11	0.1	Acceptable
Triglycerides (mg/dL) ** Siemens Dimension / Siemens Dimension TGL	CH-11	107	79 - 132	105.5	2.2	0.7	Acceptable
	CH-12	131	95 - 160	127.8	2.3	1.4	Acceptable
	CH-13	58	44 - 74	59.0	2.2	-0.5	Acceptable
	CH-14	48	35 - 59	46.7	2.2	0.6	Acceptable
	CH-15	94	70 - 118	94.3	2.3	-0.1	Acceptable
Urea Nitrogen / BUN (mg/dL) ** Siemens Dimension / Siemens Dimension reagent	CH-11	32	28 - 34	30.8	1.1	1.1	Acceptable
	CH-12	41	35 - 43	38.7	1.3	1.8	Acceptable
	CH-13	15	12 - 17	14.7	0.8	0.4	Acceptable
	CH-14	12	8 - 13	10.6	0.8	1.8	Acceptable
	CH-15	27	24 - 30	26.7	1.0	0.3	Acceptable

CHEMISTRY (ENDOCRINOLOGY)

Analyte / Method	Sample	Reported Result	Expected Result	Mean	SD	SDI	Grade
Free Thyroxine (ng/dL) ** Siemens Dimension EXL / Siemens Dimension reagent	CH-11	3.1	2.5 - 3.4	2.92	0.13	1.4	Acceptable
	CH-12	3.0	2.5 - 3.4	2.96	0.13	0.3	Acceptable
	CH-13	2.9	2.5 - 3.3	2.89	0.13	0.1	Acceptable
	CH-14	2.9	2.4 - 3.3	2.88	0.13	0.2	Acceptable
	CH-15	3.0	2.5 - 3.3	2.89	0.13	0.8	Acceptable
HCG (serum-quant) (mIU/mL) ** Siemens Dimension	CH-11	984	807 - 1,030	918.7	37.0	1.8	Acceptable
	CH-12	1,316	903 - 1,574	1,238.7	111.6	0.7	Acceptable
	CH-13	408	346 - 439	392.5	15.5	1.0	Acceptable
	CH-14	255	219 - 278	248.8	9.7	0.6	Acceptable
	CH-15	834	695 - 893	793.8	32.8	1.2	Acceptable
Thyroid Stimulating Hormone (uIU/mL) ** Siemens Dimension EXL / Siemens Dimension reagent	CH-11	5.27	4.77 - 6.20	5.483	0.236	-0.9	Acceptable
	CH-12	6.31	5.80 - 7.52	6.664	0.285	-1.2	Acceptable
	CH-13	2.85	2.52 - 3.25	2.886	0.120	-0.3	Acceptable
	CH-14	2.20	1.89 - 2.51	2.198	0.102	0.0	Acceptable
	CH-15	4.76	4.20 - 5.52	4.860	0.217	-0.5	Acceptable

GLYCOHEMOGLOBIN

Analyte / Method	Sample	Reported Result	Expected Result	Mean	SD	SDI	Grade
Glycated Hemoglobin (%) Siemens Dimension / Siemens Dimension (HB1C)	GLY-11	9.2	7.2 - 10.9	9.02	0.25	0.7	Acceptable
	GLY-12	11.7	9.1 - 13.8	11.45	0.32	0.8	Acceptable

SERUM HCG

Analyte / Method	Sample	Reported Result	Expected Result	Grade
HCG (serum-qual) Quidel QuickVue OS HCG Combo	HCG-11	Negative	Negative	Acceptable
	HCG-12	Positive	Positive	Acceptable
	HCG-13	Negative	Negative	Acceptable
	HCG-14	Positive	Positive	Acceptable
	HCG-15	Positive	Positive	Acceptable

