

Technical Report

Clinical Chemistry Reagents



Submitted to:

Diagno Labs Private Limited.
138, Pace City -1, Sector37
Gurgaon (Haryana) 122001



Submitted by:

Vanguard Diagnostics Private Limited.
C-123, Phase I, Okhla Industrial Area
New Delhi – 110020 INDIA.

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Executive Summary

Vanguard Diagnostics has prepared an evaluation report on 11 Clinical Chemistry products for Diagno Labs' review.

- **The 11 parameters selected were as under:**

1	Glucose
2	Creatinine
3	Urea
4	Uric Acid
5	Triglycerides
6	Cholesterol
7	SGOT
8	SGPT
9	Total Protein
10	Albumin
11	Amylase

Accuracy Studies: Benchmarking against Diasys

- i. Coefficient of Correlation (r) was calculated using reagents of Diasys as the reference.
- ii. Number of samples tested were = 33.
- iii. Linear regression curves were plotted for the 11 parameters.
- iv. There was an excellent correlation found between the results obtained with Diasys and Vanguard Diagnostics' products.
- v. The value of (r) ranged between 0.999 and 0.949 for the 11 parameters tested.
- vi. An "Ideal Line" was plotted on the Coefficient of Correlation graphs to get a visual impression of the closeness of the values obtained with Vanguard Diagnostics products against the ideal curve of the Diasys products.

Precision Studies: *Within Run & Between Run*

- i. “Within Run” and “Between Run” precision studies were carried out using Low and High Biorad Controls in order to cover the normal and abnormal ranges for the 11 parameters.
- ii. In all the runs, the number of replicates were equal to 25.
- iii. The Coefficient of Variation (CV %) in the “Within Run” precision studies ranged between 0.21% and 3.12%
- iv. The Coefficient of Variation (CV %) in the “Between Run” precision studies ranged between 0.49% and 3.04%

Accelerated Stability Studies: *at 37°C till 28 days*

The reagents for all 11 parameters were found to be stable till 4 weeks at 37°C.

Inferences: *Accurate, Precise & Stable*

- a. The 11 Clinical Chemistry parameters from Vanguard Diagnostics were found to be accurate when compared with Diasys as benchmark.
- b. The 11 Clinical Chemistry parameters from Vanguard Diagnostics were found to give precise results.
- c. The 11 Clinical Chemistry parameters from Vanguard Diagnostics were found to be stable even when exposed to accelerated temperature conditions of 37°C.

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Details of Parameters

Sr. No.	Product	Method	Type	No. of Reagents	Standard/Calibrator Provided in the kit
1	Glucose	GOD – POD End Point	Liquid stable	01	01
2	Creatinine	Modified Jaffe Initial Rate	Liquid stable	01	01
3	Urea	GLDH, UV Initial Rate	Liquid stable	02	01
4	Uric Acid	Uricase – POD End Point	Liquid stable	01	01
5	Triglycerides	GPO – POD End Point	Liquid stable	01	01
6	Cholesterol	CHOD-POD End Point	Liquid stable	01	01
7	SGOT	IFCC Kinetic	Liquid stable	02	-
8	SGPT	IFCC Kinetic	Liquid stable	02	-
9	Total Protein	Biuret End Point	Liquid stable	01	01 Calibrator
10	Albumin	BCG End Point	Liquid stable	01	01 Calibrator
11	Amylase	CNP- G3 Kinetic	Liquid stable	01	-

Coefficient of Correlation Studies

- I. The objective was to determine the correlation between the results obtained with the Clinical Chemistry reagents of Vanguard Diagnostics and the benchmarked Clinical Chemistry reagents from Diasys.
- II. The Coefficient of Correlation ("r") was calculated for each of the 11 parameters selected.
- III. The data has been presented in the form of:

1	Sample size
2	Mean x ($\bar{x}$)
3	Mean y ($\bar{y}$)
4	Intercept (a)
5	Slope (b)
6	Regression line equation
7	Value of "r"
8	Linear Regression Graph
9	Raw Data of values
10	Histograms will be made available at the time of visit

Note: The correlation coefficient, is a numerical value between -1 and 1 that expresses the strength of the linear relationship between two variables. When "r" is closer to 1 it indicates a strong positive relationship. A value of 0 indicates that there is no relationship. Values close to -1 signal a strong negative relationship between the two variables.

Correlation coefficient formula: There are many formulas to calculate the correlation coefficient (all yielding the same result). We used the following:

$$r = \frac{n \sum_{i=1}^n x_i y_i - \sum_{i=1}^n x_i \sum_{i=1}^n y_i}{\sqrt{(n \sum_{i=1}^n x_i^2 - (\sum_{i=1}^n x_i)^2)(n \sum_{i=1}^n y_i^2 - (\sum_{i=1}^n y_i)^2)}}$$

Where n is the total number of samples, x_i ($x_1, x_2, \dots, x_n$) are the x values and y_i are the y values.

Coefficient of Correlation (“r”): Glucose

x = Glucose reagent from Diasys.

y = Glucose reagent from Vanguard.

$$“r” = 0.998$$

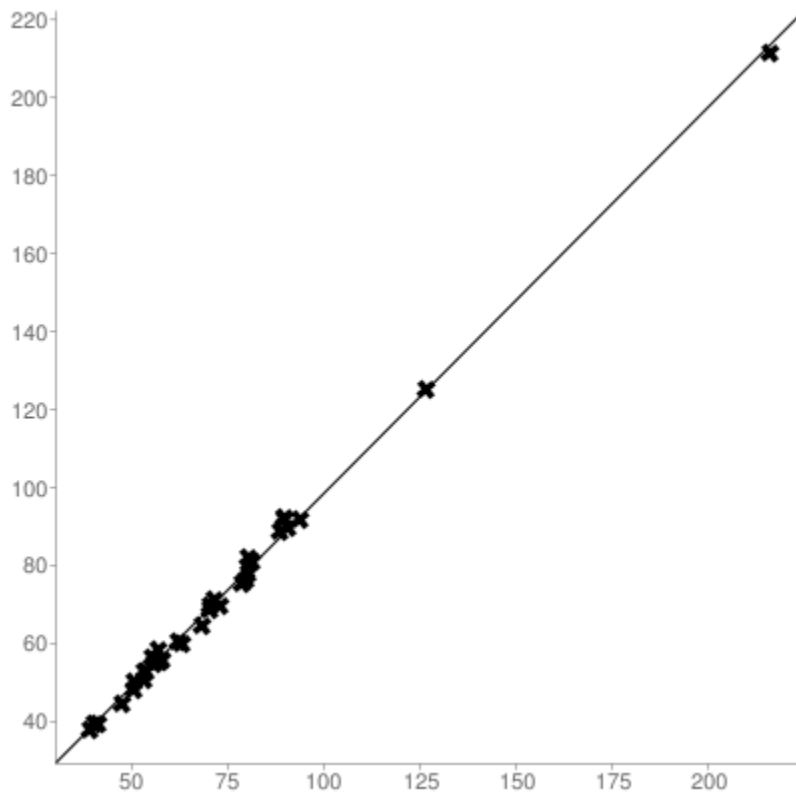
Sample size: 33

Mean x ($\bar{x}$): 72.226666666667

Mean y ($\bar{y}$): 71.088484848485

Intercept (a): -0.46424485418245

Slope (b): 0.99066913932067 Regression line equation: $y = 0.99066913932067x - 0.46424485418245$



Coefficient of Correlation (“r”): Creatinine

x = Creatinine reagent from Diasys.

y = Creatinine reagent from Vanguard.

$$“r” = 0.987$$

Sample size: 33

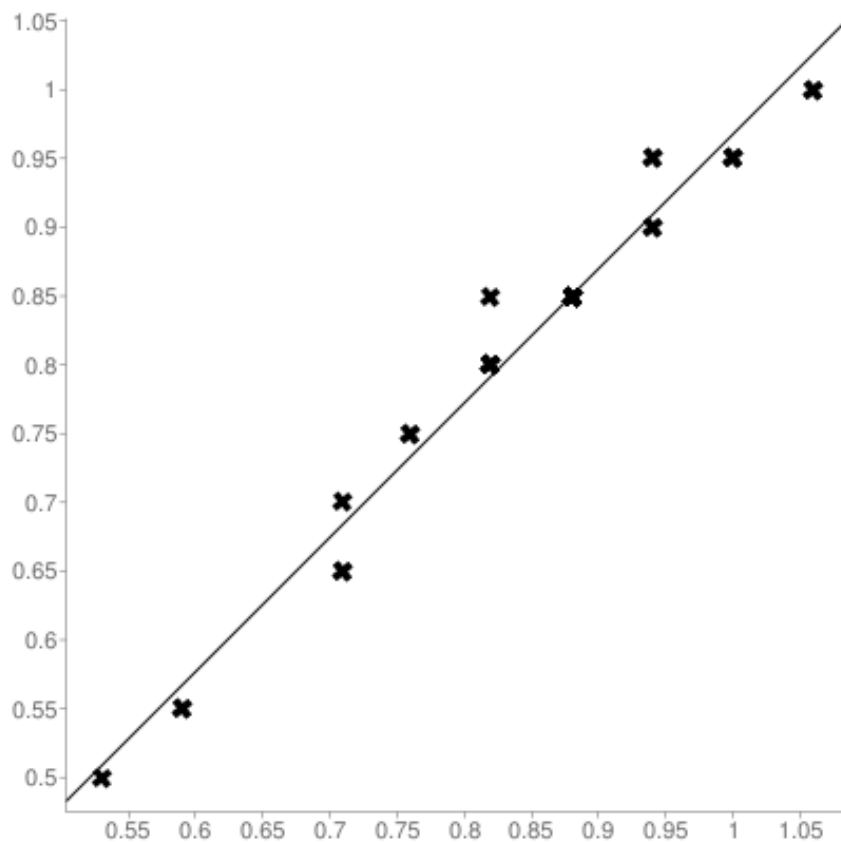
Mean x ($\bar{x}$): 0.84727272727273

Mean y ($\bar{y}$): 0.81818181818182

Intercept (a): -0.0089840025426436

Slope (b): 0.97626867252887

Regression line equation: $y = 0.97626867252887x - 0.0089840025426436$



Coefficient of Correlation (“r”): Urea

x = Urea reagent from Diasys.

y = Urea reagent from Vanguard.

$$“r” = 0.999$$

Sample size: 33

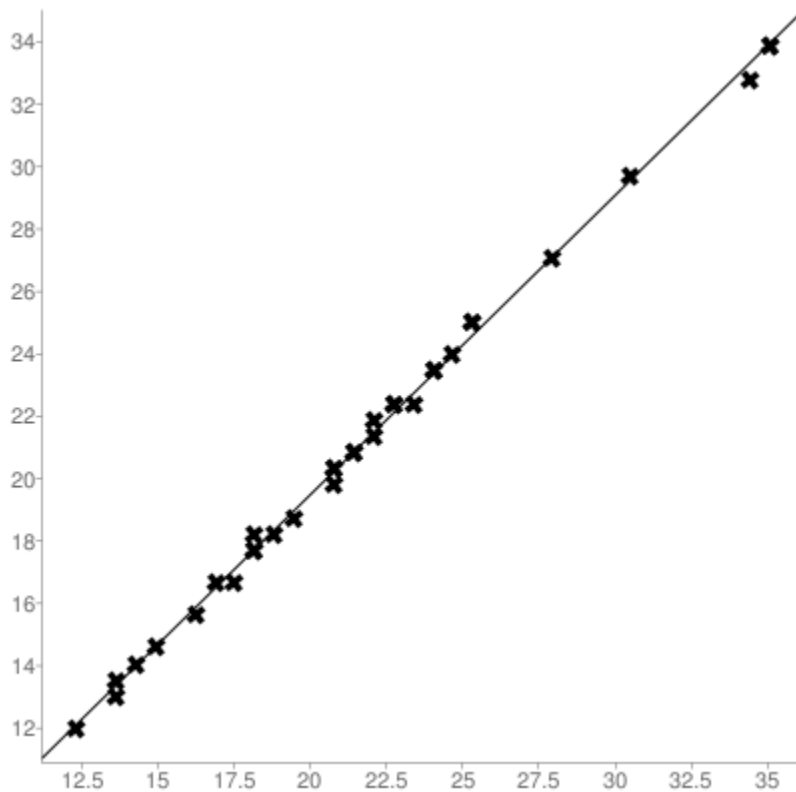
Mean x (x̄): 21.724242424242

Mean y (ȳ): 21.132727272727

Intercept (a): 0.27421898694367

Slope (b): 0.96014893769125

Regression line equation: $y = 0.27421898694367 + 0.96014893769125x$



Coefficient of Correlation (“r”): Uric Acid

x= Uric Acid reagent from Diasys.

y= Uric Acid reagent from Vanguard.

$$“r” = 0.993$$

Sample size: 33

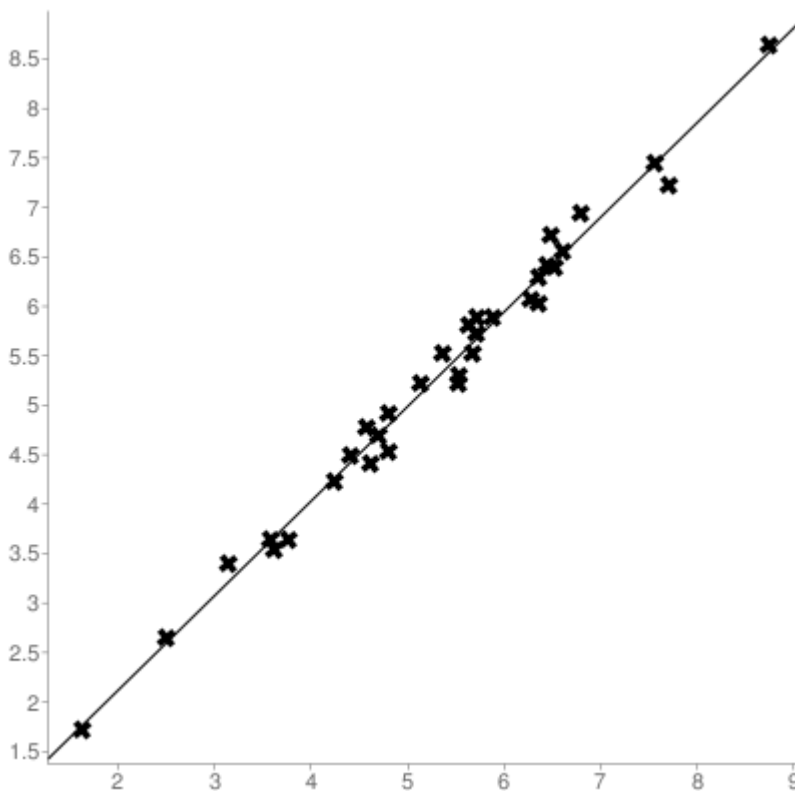
Mean x ($\bar{x}$): 5.345151515151515

Mean y ($\bar{y}$): 5.3169696969697

Intercept (a): 0.20452699231826

Slope (b): 0.9564635708004

Regression line equation: $y=0.20452699231826+0.9564635708004x$



Coefficient of Correlation (“r”): Triglycerides

x= Triglycerides reagent from Diasys.

y= Triglycerides reagent from Vanguard.

$$“r” = 0.999$$

Sample size: 33

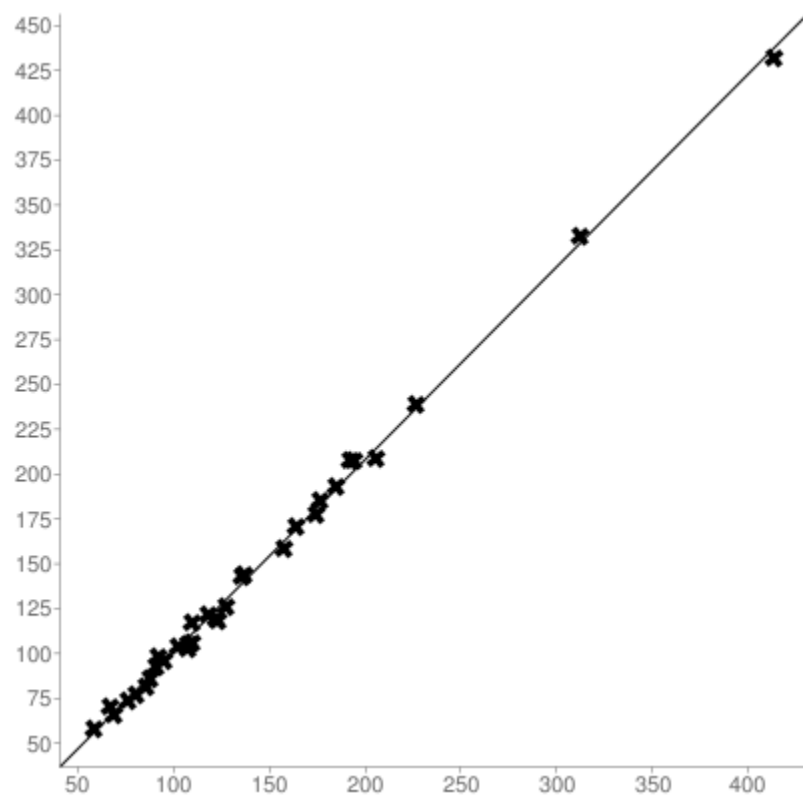
Mean x ($\bar{x}$): 139.57787878788

Mean y ($\bar{y}$): 143.14242424242

Intercept (a): -6.7775291369935

Slope (b): 1.0740953701357

Regression line equation: $y=1.0740953701357x-6.7775291369935$



Coefficient of Correlation (“r”): Cholesterol

x= Cholesterol reagent from Diasys.

y= Cholesterol reagent from Vanguard.

$$“r” = 0.996$$

Sample size: 33

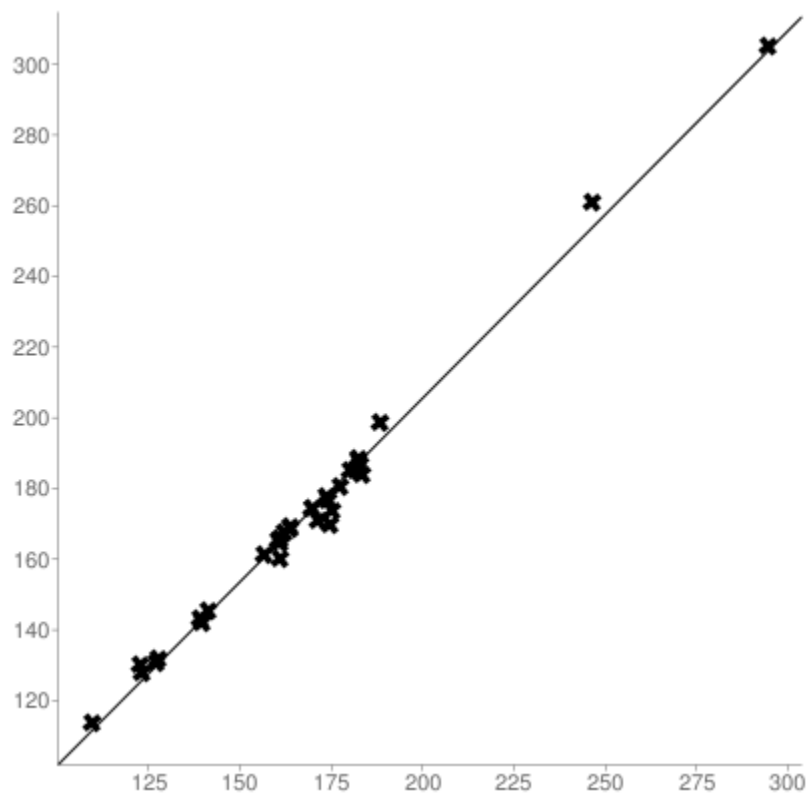
Mean x ($\bar{x}$): 167.42212121212

Mean y ($\bar{y}$): 171.72181818182

Intercept (a): -2.1958986250955

Slope (b): 1.0387977141119

Regression line equation: $y=1.0387977141119x-2.1958986250955$



Coefficient of Correlation (“r”): SGOT

x= SGOT reagent from Diasys.

y= SGOT reagent from Vanguard.

$$“r” = 0.978$$

Sample size: 32

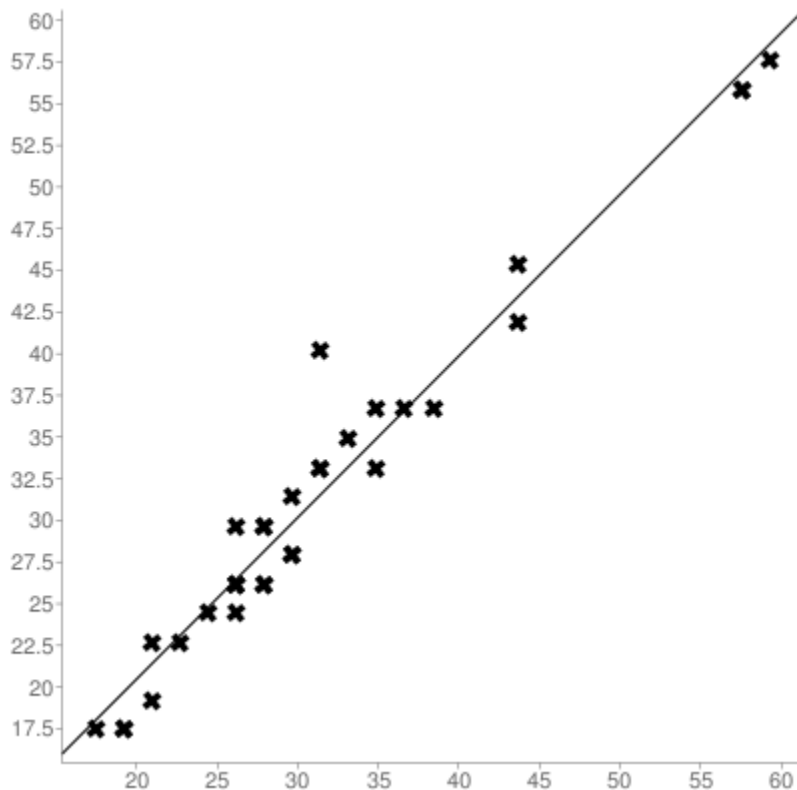
Mean x ($\bar{x}$): 31.57625

Mean y ($\bar{y}$): 31.7009375

Intercept (a): 1.1062721004411

Slope (b): 0.96891383237588

Regression line equation: $y = 1.1062721004411 + 0.96891383237588x$



Coefficient of Correlation (“r”): SGPT

x= SGPT reagent from Diasys.

y= SGPT reagent from Vanguard.

$$“r” = 0.998$$

Sample size: 33

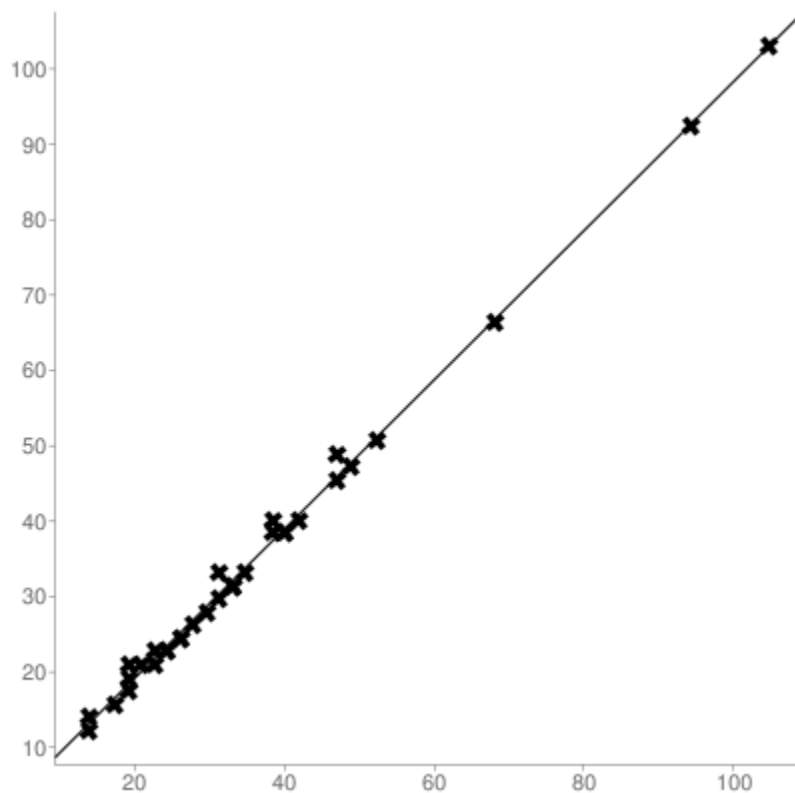
Mean x ($\bar{x}$): 35.96

Mean y ($\bar{y}$): 34.919696969697

Intercept (a): -0.68283717406223

Slope (b): 0.99005934771299

Regression line equation: $y=0.99005934771299x$



Coefficient of Correlation (“r”): Total Protein

x= Total Protein reagent from Diasys.

y= Total Protein reagent from Vanguard.

$$“r” = 0.983$$

Sample size: 33

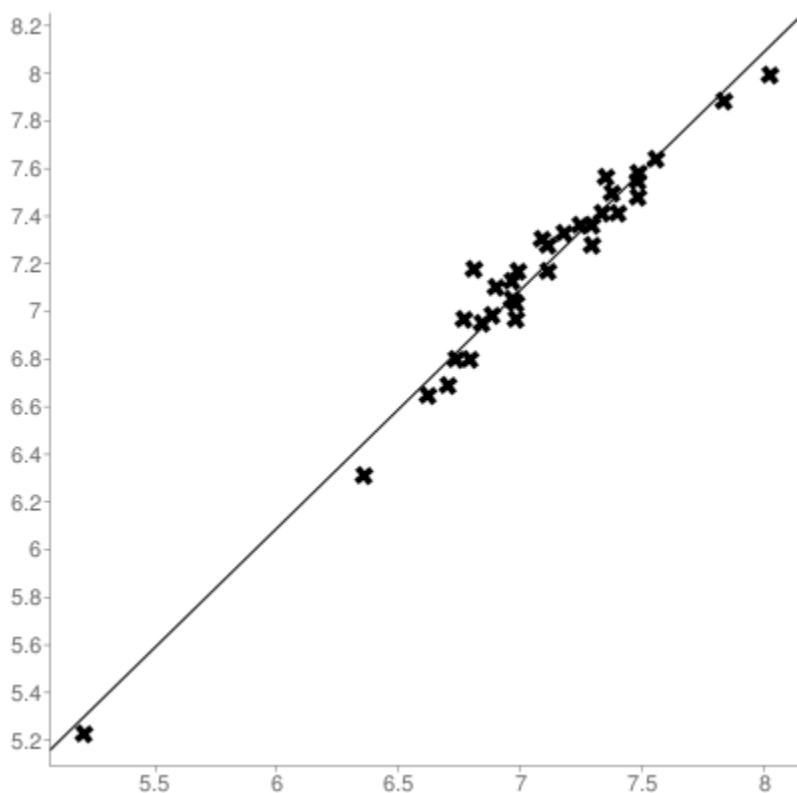
Mean x ($\bar{x}$): 7.0630303030303

Mean y ($\bar{y}$): 7.1542424242424

Intercept (a): 0.082214090074015

Slope (b): 1.0012739618481

Regression line equation: $y = 0.082214090074015 + 1.0012739618481x$



Coefficient of Correlation (“r”): Albumin

x= Albumin reagent from Diasys.

y= Albumin reagent from Vanguard.

“r” = 0.949

Sample size: 33

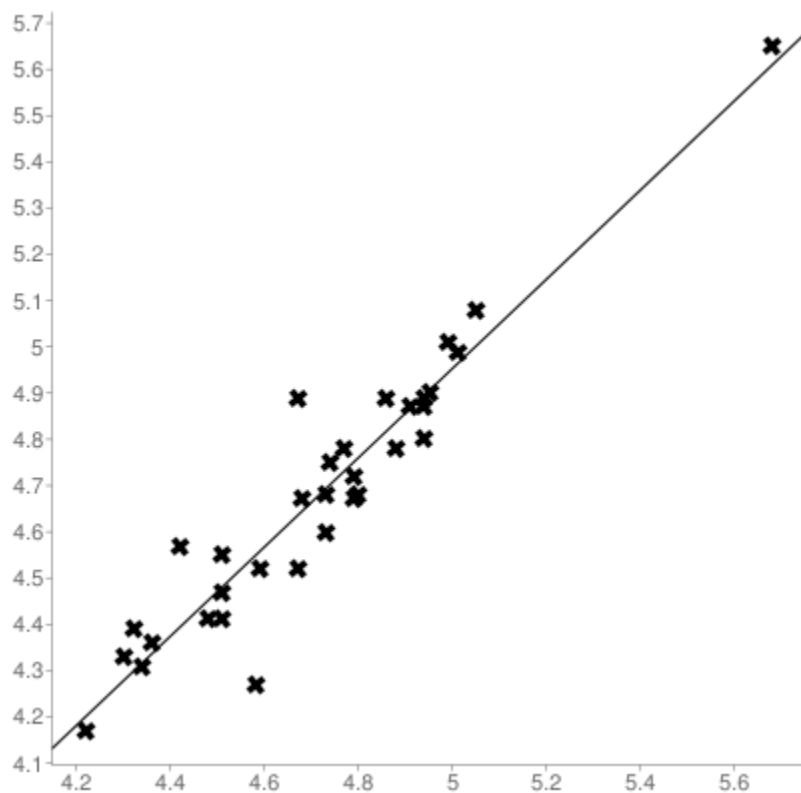
Mean x ($\bar{x}$): 4.7169696969697

Mean y ($\bar{y}$): 4.680303030303

Intercept (a): 0.13486184082032

Slope (b): 0.96363586825729

Regression line equation: $y=0.13486184082032+0.96363586825729x$



Coefficient of Correlation (“r”): Amylase

x= Amylase reagent from Diasys.

y= Amylase reagent from Vanguard.

“r”: 0.996

Sample size: 33

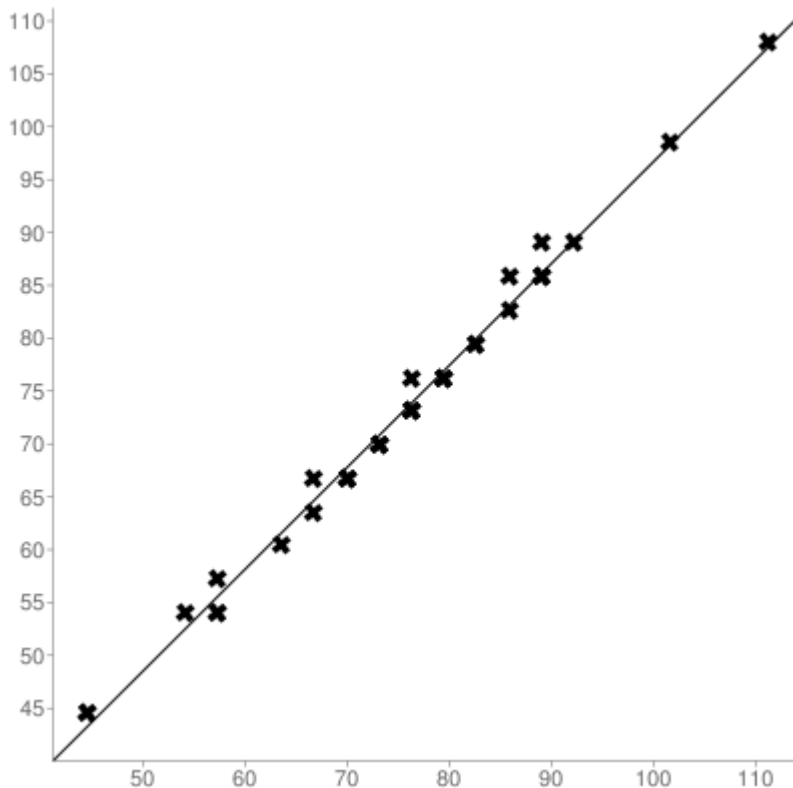
Mean x (x̄): 75.212121212121

Mean y (ȳ): 72.805454545455

Intercept (a): 0.4031065943736

Slope (b): 0.96264201546562

Regression line equation: $y=0.4031065943736+0.96264201546562x$



Raw Data:

Coefficient of Correlation

Comparison Evaluation Report of VDX Glucose Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.028		0.451		
		C.Abs.		C.Abs.		
	Standard	0.346	289.01	0.771	312.5	
01	Sample 01	0.264	76.30	0.254	79.38	96.12
02	Sample 02	0.166	47.98	0.162	50.63	94.77
03	Sample 03	0.270	78.03	0.256	80.00	97.54
04	Sample 04	0.242	69.94	0.234	73.13	95.65
05	Sample 05	0.174	50.29	0.162	50.63	99.33
06	Sample 06	0.281	81.21	0.260	81.25	99.95
07	Sample 07	0.195	56.36	0.176	55.00	102.47
08	Sample 08	0.247	71.39	0.229	71.56	99.75
09	Sample 09	0.182	52.60	0.170	53.13	99.01
10	Sample 10	0.320	92.48	0.286	89.38	103.48
11	Sample 11	0.317	91.62	0.287	89.69	102.15
12	Sample 12	0.242	69.94	0.225	70.31	99.47
13	Sample 13	0.732	211.56	0.691	215.94	97.97
14	Sample 14	0.307	88.73	0.283	88.44	100.33
15	Sample 15	0.310	89.59	0.290	90.63	98.86
16	Sample 16	0.137	39.59	0.132	41.25	95.99
17	Sample 17	0.202	58.38	0.181	56.56	103.21
18	Sample 18	0.433	125.14	0.405	126.56	98.88
19	Sample 19	0.193	55.78	0.185	57.81	96.48
20	Sample 20	0.191	55.20	0.183	57.19	96.53
21	Sample 21	0.207	59.83	0.201	62.81	95.24
22	Sample 22	0.318	91.91	0.299	93.44	98.36
23	Sample 23	0.176	50.87	0.170	53.13	95.75
24	Sample 24	0.190	54.91	0.178	55.63	98.72
25	Sample 25	0.284	82.08	0.257	80.31	102.20
26	Sample 26	0.261	75.43	0.251	78.44	96.17
27	Sample 27	0.182	52.60	0.172	53.75	97.86
28	Sample 28	0.155	44.80	0.152	47.50	94.31
29	Sample 29	0.224	64.74	0.219	68.44	94.59
30	Sample 30	0.131	37.86	0.125	39.06	96.92
31	Sample 31	0.238	68.78	0.225	70.31	97.83
32	Sample 32	0.210	60.69	0.198	61.88	98.09
33	Sample 33	0.136	39.31	0.129	40.31	97.50

Comparison Evaluation Report of VDX Creatinine Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.010		0.011		
		C.Abs.		C.Abs.		
	Standard	0.040	50.00	0.034	58.82	
01	Sample 01	0.017	0.85	0.014	0.82	103.22
02	Sample 02	0.017	0.85	0.015	0.88	96.34
03	Sample 03	0.017	0.85	0.015	0.88	96.34
04	Sample 04	0.017	0.85	0.015	0.88	96.34
05	Sample 05	0.017	0.85	0.015	0.88	96.34
06	Sample 06	0.016	0.80	0.014	0.82	97.15
07	Sample 07	0.017	0.85	0.015	0.88	96.34
08	Sample 08	0.018	0.90	0.016	0.94	95.63
09	Sample 09	0.013	0.65	0.012	0.71	92.09
10	Sample 10	0.017	0.85	0.015	0.88	96.34
11	Sample 11	0.019	0.95	0.017	1.00	95.01
12	Sample 12	0.019	0.95	0.017	1.00	95.01
13	Sample 13	0.017	0.85	0.015	0.88	96.34
14	Sample 14	0.019	0.95	0.016	0.94	100.94
15	Sample 15	0.017	0.85	0.015	0.88	96.34
16	Sample 16	0.016	0.80	0.014	0.82	97.15
17	Sample 17	0.015	0.75	0.013	0.76	98.08
18	Sample 18	0.016	0.80	0.014	0.82	97.15
19	Sample 19	0.017	0.85	0.015	0.88	96.34
20	Sample 20	0.017	0.85	0.015	0.88	96.34
21	Sample 21	0.020	1.00	0.018	1.06	94.45
22	Sample 22	0.011	0.55	0.010	0.59	93.51
23	Sample 23	0.019	0.95	0.017	1.00	95.01
24	Sample 24	0.016	0.80	0.014	0.82	97.15
25	Sample 25	0.015	0.75	0.013	0.76	98.08
26	Sample 26	0.016	0.80	0.014	0.82	97.15
27	Sample 27	0.013	0.65	0.012	0.71	92.09
28	Sample 28	0.010	0.50	0.009	0.53	94.45
29	Sample 29	0.019	0.95	0.016	0.94	100.94
30	Sample 30	0.011	0.55	0.010	0.59	93.51
31	Sample 31	0.018	0.90	0.016	0.94	95.63
32	Sample 32	0.020	1.00	0.018	1.06	94.45
33	Sample 33	0.014	0.70	0.012	0.71	99.17

Comparison Evaluation Report of VDX Uria UV Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.010		0.011		
		C.Abs.		C.Abs.		
	Standard	0.096	520.83	0.077	649.35	
01	Sample 01	0.039	20.31	0.032	20.78	97.75
02	Sample 02	0.041	21.35	0.034	22.08	96.72
03	Sample 03	0.065	33.85	0.054	35.06	96.55
04	Sample 04	0.035	18.23	0.029	18.83	96.80
05	Sample 05	0.035	18.23	0.028	18.18	100.26
06	Sample 06	0.032	16.67	0.027	17.53	95.06
07	Sample 07	0.036	18.75	0.030	19.48	96.25
08	Sample 08	0.039	20.31	0.032	20.78	97.75
09	Sample 09	0.057	29.69	0.047	30.52	97.27
10	Sample 10	0.032	16.67	0.026	16.88	98.72
11	Sample 11	0.034	17.71	0.028	18.18	97.40
12	Sample 12	0.048	25.00	0.039	25.32	98.72
13	Sample 13	0.028	14.58	0.023	14.94	97.64
14	Sample 14	0.046	23.96	0.038	24.68	97.09
15	Sample 15	0.040	20.83	0.033	21.43	97.22
16	Sample 16	0.026	13.54	0.021	13.64	99.31
17	Sample 17	0.065	33.85	0.054	35.06	96.55
18	Sample 18	0.027	14.06	0.022	14.29	98.44
19	Sample 19	0.063	32.81	0.053	34.42	95.34
20	Sample 20	0.042	21.87	0.034	22.08	99.08
21	Sample 21	0.040	20.83	0.033	21.43	97.22
22	Sample 22	0.023	11.98	0.019	12.34	97.09
23	Sample 23	0.052	27.08	0.043	27.92	97.00
24	Sample 24	0.043	22.40	0.035	22.73	98.54
25	Sample 25	0.045	23.44	0.037	24.03	97.55
26	Sample 26	0.048	25.00	0.039	25.32	98.72
27	Sample 27	0.045	23.44	0.037	24.03	97.55
28	Sample 28	0.030	15.62	0.025	16.23	96.25
29	Sample 29	0.038	19.79	0.032	20.78	95.25
30	Sample 30	0.025	13.02	0.021	13.64	95.49
31	Sample 31	0.043	22.40	0.036	23.38	95.80
32	Sample 32	0.034	17.71	0.028	18.18	97.40
33	Sample 33	0.043	22.40	0.035	22.73	98.54

Comparison Evaluation Report of VDx Uric Acid Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.025		0.011		
		C.Abs.		C.Abs.		
	Standard	0.216	27.77	0.151	39.73	
01	Sample 01	0.260	7.22	0.194	7.71	93.68
02	Sample 02	0.172	4.78	0.115	4.57	104.54
03	Sample 03	0.163	4.53	0.121	4.81	94.16
04	Sample 04	0.169	4.69	0.118	4.69	100.11
05	Sample 05	0.062	1.72	0.041	1.63	105.70
06	Sample 06	0.230	6.39	0.164	6.52	98.03
07	Sample 07	0.227	6.30	0.160	6.36	99.17
08	Sample 08	0.231	6.41	0.162	6.44	99.67
09	Sample 09	0.188	5.22	0.139	5.52	94.54
10	Sample 10	0.199	5.53	0.143	5.68	97.27
11	Sample 11	0.217	6.03	0.160	6.36	94.80
12	Sample 12	0.191	5.30	0.139	5.52	96.05
13	Sample 13	0.219	6.08	0.158	6.28	96.88
14	Sample 14	0.311	8.64	0.220	8.74	98.81
15	Sample 15	0.268	7.44	0.190	7.55	98.59
16	Sample 16	0.212	5.89	0.144	5.72	102.90
17	Sample 17	0.177	4.92	0.121	4.81	102.25
18	Sample 18	0.236	6.55	0.166	6.60	99.37
19	Sample 19	0.206	5.72	0.144	5.72	99.99
20	Sample 20	0.159	4.42	0.116	4.61	95.81
21	Sample 21	0.250	6.94	0.171	6.79	102.19
22	Sample 22	0.128	3.55	0.091	3.62	98.32
23	Sample 23	0.162	4.50	0.111	4.41	102.01
24	Sample 24	0.209	5.80	0.142	5.64	102.88
25	Sample 25	0.212	5.89	0.148	5.88	100.12
26	Sample 26	0.188	5.22	0.129	5.13	101.87
27	Sample 27	0.152	4.22	0.107	4.25	99.29
28	Sample 28	0.095	2.64	0.063	2.50	105.40
29	Sample 29	0.242	6.72	0.163	6.48	103.77
30	Sample 30	0.122	3.39	0.079	3.14	107.94
31	Sample 31	0.131	3.64	0.095	3.77	96.38
32	Sample 32	0.199	5.53	0.135	5.36	103.03
33	Sample 33	0.131	3.64	0.090	3.58	101.74

Comparison Evaluation Report of VDX Triglycerides Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.031		0.163		
		C.Abs.		C.Abs.		
	Standard	0.278	719.42	0.295	677.96	
01	Sample 01	0.288	207.19	0.286	193.90	106.86
02	Sample 02	0.098	70.50	0.099	67.12	105.04
03	Sample 03	0.128	92.09	0.133	90.17	102.13
04	Sample 04	0.290	208.63	0.304	206.10	101.23
05	Sample 05	0.238	171.22	0.242	164.07	104.36
06	Sample 06	0.247	177.70	0.257	174.24	101.99
07	Sample 07	0.175	125.90	0.187	126.78	99.31
08	Sample 08	0.102	73.38	0.112	75.93	96.64
09	Sample 09	0.081	58.27	0.086	58.30	99.95
10	Sample 10	0.113	81.29	0.126	85.42	95.17
11	Sample 11	0.119	85.61	0.129	87.46	97.89
12	Sample 12	0.143	102.88	0.159	107.80	95.44
13	Sample 13	0.166	119.42	0.180	122.03	97.86
14	Sample 14	0.165	118.70	0.181	122.71	96.74
15	Sample 15	0.289	207.91	0.284	192.54	107.98
16	Sample 16	0.147	105.75	0.161	109.15	96.89
17	Sample 17	0.145	104.32	0.158	107.12	97.38
18	Sample 18	0.601	432.37	0.610	413.56	104.55
19	Sample 19	0.198	142.45	0.200	135.59	105.05
20	Sample 20	0.146	105.04	0.159	107.80	97.44
21	Sample 21	0.463	333.09	0.461	312.54	106.58
22	Sample 22	0.092	66.19	0.101	68.47	96.66
23	Sample 23	0.220	158.27	0.232	157.29	100.63
24	Sample 24	0.200	143.88	0.201	136.27	105.59
25	Sample 25	0.136	97.84	0.136	92.20	106.12
26	Sample 26	0.258	185.61	0.260	176.27	105.30
27	Sample 27	0.169	121.58	0.174	117.97	103.07
28	Sample 28	0.107	76.98	0.118	80.00	96.22
29	Sample 29	0.332	238.85	0.334	226.44	105.48
30	Sample 30	0.144	103.60	0.150	101.69	101.87
31	Sample 31	0.134	96.40	0.140	94.91	101.57
32	Sample 32	0.269	193.52	0.273	185.08	104.56
33	Sample 33	0.163	117.27	0.161	109.15	107.43

Comparison Evaluation Report of VDX Cholesterol Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.014		0.041		
		C.Abs.		C.Abs.		
	Standard	0.344	581.39	0.345	578.71	
01	Sample 01	0.449	261.04	0.426	246.53	105.89
02	Sample 02	0.224	130.23	0.212	122.69	106.15
03	Sample 03	0.284	165.11	0.277	160.30	103.00
04	Sample 04	0.292	169.77	0.302	174.77	97.14
05	Sample 05	0.300	174.42	0.293	169.56	102.86
06	Sample 06	0.220	127.91	0.213	123.27	103.76
07	Sample 07	0.324	188.37	0.315	182.29	103.33
08	Sample 08	0.227	131.98	0.220	127.32	103.66
09	Sample 09	0.196	113.95	0.189	109.38	104.18
10	Sample 10	0.283	164.53	0.278	160.88	102.27
11	Sample 11	0.250	145.35	0.244	141.21	102.93
12	Sample 12	0.291	169.18	0.283	163.77	103.30
13	Sample 13	0.277	161.05	0.270	156.25	103.07
14	Sample 14	0.342	198.84	0.325	188.08	105.72
15	Sample 15	0.321	186.63	0.316	182.87	102.05
16	Sample 16	0.246	143.02	0.240	138.89	102.97
17	Sample 17	0.323	187.79	0.315	182.29	103.01
18	Sample 18	0.525	305.23	0.509	294.56	103.62
19	Sample 19	0.285	165.70	0.278	160.88	102.99
20	Sample 20	0.288	167.44	0.280	162.04	103.33
21	Sample 21	0.318	184.88	0.314	181.71	101.74
22	Sample 22	0.244	141.86	0.241	139.47	101.71
23	Sample 23	0.290	168.60	0.283	163.77	102.95
24	Sample 24	0.300	174.42	0.293	169.56	102.86
25	Sample 25	0.316	183.72	0.317	183.45	100.15
26	Sample 26	0.311	180.81	0.306	177.09	102.10
27	Sample 27	0.225	130.81	0.219	126.74	103.22
28	Sample 28	0.299	173.84	0.303	175.35	99.14
29	Sample 29	0.306	177.91	0.300	173.61	102.47
30	Sample 30	0.294	170.93	0.296	171.30	99.78
31	Sample 31	0.304	176.74	0.301	174.19	101.46
32	Sample 32	0.318	184.88	0.311	179.98	102.72
33	Sample 33	0.275	159.88	0.278	160.88	99.38

Comparison Evaluation Report of VDX SGOT Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	ΔAbs./min.	Conc (IU/L)	ΔAbs./min.	Conc (IU/L)	%
	Factor		1746		1745	
01	Sample 01	0.026	45.40	0.025	43.63	104.06
02	Sample 02	0.015	26.19	0.015	26.18	100.06
03	Sample 03	0.021	36.67	0.020	34.90	105.06
04	Sample 04	0.019	33.17	0.018	31.41	105.62
05	Sample 05	0.014	24.44	0.014	24.43	100.06
06	Sample 06	0.017	29.68	0.015	26.18	113.40
07	Sample 07	0.020	34.92	0.019	33.16	105.32
08	Sample 08	0.019	33.17	0.018	31.41	105.62
09	Sample 09	0.018	31.43	0.017	29.67	105.94
10	Sample 10	0.013	22.70	0.013	22.69	100.06
11	Sample 11	0.023	40.16	0.018	31.41	127.85
12	Sample 12	0.013	22.70	0.012	20.94	108.40
13	Sample 13	0.017	29.68	0.016	27.92	106.31
14	Sample 14	0.015	26.19	0.016	27.92	93.80
15	Sample 15	0.021	36.67	0.022	38.39	95.51
16	Sample 16	0.017	29.68	0.016	27.92	106.31
17	Sample 17	0.016	27.94	0.017	29.67	94.17
18	Sample 18	0.032	55.87	0.033	57.59	97.03
19	Sample 19	0.021	36.67	0.021	36.65	100.06
20	Sample 20	0.010	17.46	0.011	19.20	90.96
21	Sample 21	0.033	57.62	0.034	59.33	97.11
22	Sample 22	0.021	36.67	0.013	22.69	161.63
23	Sample 23	0.016	27.94	0.017	29.67	94.17
24	Sample 24	0.010	17.46	0.011	19.20	90.96
25	Sample 25	0.010	17.46	0.010	17.45	100.06
26	Sample 26	0.019	33.17	0.020	34.90	95.05
27	Sample 27	0.032	55.87	0.033	57.59	97.03
28	Sample 28	0.024	41.90	0.025	43.63	96.06
29	Sample 29	0.015	26.19	0.016	27.92	93.80
30	Sample 30	0.015	26.19	0.015	26.18	100.06
31	Sample 31	0.011	19.21	0.012	20.94	91.72
32	Sample 32	0.015	26.19	0.015	26.18	100.06
33	Sample 33	0.014	24.44	0.015	26.18	93.39

Comparison Evaluation Report of VDX SGPT Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	ΔAbs./min.	Conc (IU/L)	ΔAbs./min.	Conc (IU/L)	%
	Factor		1746		1745	
01	Sample 01	0.028	48.89	0.027	47.12	103.76
02	Sample 02	0.013	22.70	0.014	24.43	92.91
03	Sample 03	0.029	50.63	0.030	52.35	96.72
04	Sample 04	0.018	31.43	0.019	33.16	94.79
05	Sample 05	0.018	31.43	0.019	33.16	94.79
06	Sample 06	0.022	38.41	0.022	38.39	100.06
07	Sample 07	0.022	38.41	0.023	40.14	95.71
08	Sample 08	0.014	24.44	0.015	26.18	93.39
09	Sample 09	0.019	33.17	0.020	34.90	95.05
10	Sample 10	0.013	22.70	0.013	22.69	100.06
11	Sample 11	0.026	45.40	0.027	47.12	96.35
12	Sample 12	0.014	24.44	0.015	26.18	93.39
13	Sample 13	0.018	31.43	0.019	33.16	94.79
14	Sample 14	0.019	33.17	0.018	31.41	105.62
15	Sample 15	0.022	38.41	0.023	40.14	95.71
16	Sample 16	0.011	19.21	0.011	19.20	100.06
17	Sample 17	0.010	17.46	0.011	19.20	90.96
18	Sample 18	0.059	103.01	0.060	104.70	98.39
19	Sample 19	0.023	40.16	0.024	41.88	95.89
20	Sample 20	0.007	12.22	0.008	13.96	87.55
21	Sample 21	0.053	92.54	0.054	94.23	98.20
22	Sample 22	0.008	13.97	0.008	13.96	100.06
23	Sample 23	0.023	40.16	0.022	38.39	104.61
24	Sample 24	0.012	20.95	0.011	19.20	109.15
25	Sample 25	0.012	20.95	0.013	22.69	92.36
26	Sample 26	0.027	47.14	0.028	48.86	96.48
27	Sample 27	0.038	66.35	0.039	68.06	97.49
28	Sample 28	0.016	27.94	0.017	29.67	94.17
29	Sample 29	0.017	29.68	0.018	31.41	94.50
30	Sample 30	0.013	22.70	0.014	24.43	92.91
31	Sample 31	0.012	20.95	0.012	20.94	100.06
32	Sample 32	0.015	26.19	0.016	27.92	93.80
33	Sample 33	0.009	15.71	0.010	17.45	90.05

Comparison Evaluation Report of VDX Total Protein Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (gm/dl)	Abs.	Conc (gm/dl)	%
	Blank	0.067		0.038		
		C.Abs.		C.Abs.		
	Standard	0.339	16.51	0.301	18.60	
01	Sample 01	0.463	7.64	0.406	7.55	101.23
02	Sample 02	0.444	7.33	0.386	7.18	102.10
03	Sample 03	0.458	7.56	0.395	7.35	102.92
04	Sample 04	0.477	7.88	0.421	7.83	100.57
05	Sample 05	0.427	7.05	0.374	6.96	101.34
06	Sample 06	0.442	7.30	0.381	7.09	102.97
07	Sample 07	0.446	7.36	0.389	7.24	101.77
08	Sample 08	0.441	7.28	0.382	7.11	102.47
09	Sample 09	0.434	7.17	0.376	6.99	102.46
10	Sample 10	0.435	7.18	0.366	6.81	105.50
11	Sample 11	0.422	6.97	0.364	6.77	102.91
12	Sample 12	0.430	7.10	0.371	6.90	102.88
13	Sample 13	0.432	7.13	0.374	6.96	102.53
14	Sample 14	0.412	6.80	0.362	6.73	101.02
15	Sample 15	0.454	7.50	0.396	7.37	101.76
16	Sample 16	0.421	6.95	0.368	6.84	101.55
17	Sample 17	0.457	7.55	0.402	7.48	100.91
18	Sample 18	0.459	7.58	0.402	7.48	101.35
19	Sample 19	0.441	7.28	0.392	7.29	99.86
20	Sample 20	0.434	7.17	0.382	7.11	100.85
21	Sample 21	0.446	7.36	0.392	7.29	100.99
22	Sample 22	0.449	7.41	0.394	7.33	101.15
23	Sample 23	0.449	7.41	0.398	7.40	100.14
24	Sample 24	0.405	6.69	0.360	6.70	99.86
25	Sample 25	0.403	6.65	0.356	6.62	100.48
26	Sample 26	0.426	7.03	0.375	6.98	100.84
27	Sample 27	0.453	7.48	0.402	7.48	100.02
28	Sample 28	0.484	7.99	0.431	8.02	99.68
29	Sample 29	0.422	6.97	0.375	6.98	99.89
30	Sample 30	0.412	6.80	0.365	6.79	100.19
31	Sample 31	0.382	6.31	0.342	6.36	99.15
32	Sample 32	0.317	5.23	0.280	5.21	100.49
33	Sample 33	0.423	6.98	0.370	6.88	101.48

Comparison Evaluation Report of VDX Albumin Reagent Vs Diasys						
VDx Reagent				Diasys Reagent		
S.No.	Test	Abs.	Conc (mg/dl)	Abs.	Conc (mg/dl)	%
	Blank	0.032		0.213		
		C.Abs.		C.Abs.		
	Calibrator	0.589	6.28	0.562	6.58	
01	Sample 01	0.809	5.08	0.768	5.05	100.54
02	Sample 02	0.745	4.68	0.719	4.73	98.89
03	Sample 03	0.746	4.68	0.730	4.80	97.53
04	Sample 04	0.798	5.01	0.758	4.99	100.48
05	Sample 05	0.761	4.78	0.725	4.77	100.18
06	Sample 06	0.744	4.67	0.728	4.79	97.54
07	Sample 07	0.732	4.60	0.719	4.73	97.17
08	Sample 08	0.727	4.57	0.671	4.42	103.41
09	Sample 09	0.752	4.72	0.728	4.79	98.59
10	Sample 10	0.778	4.89	0.709	4.67	104.73
11	Sample 11	0.725	4.55	0.686	4.51	100.87
12	Sample 12	0.680	4.27	0.696	4.58	93.25
13	Sample 13	0.699	4.39	0.657	4.32	101.54
14	Sample 14	0.690	4.33	0.654	4.30	100.69
15	Sample 15	0.703	4.41	0.681	4.48	98.52
16	Sample 16	0.775	4.87	0.750	4.94	98.62
17	Sample 17	0.900	5.65	0.863	5.68	99.53
18	Sample 18	0.764	4.80	0.751	4.94	97.09
19	Sample 19	0.702	4.41	0.685	4.51	97.81
20	Sample 20	0.756	4.75	0.721	4.74	100.07
21	Sample 21	0.720	4.52	0.697	4.59	98.59
22	Sample 22	0.744	4.67	0.711	4.68	99.87
23	Sample 23	0.780	4.90	0.753	4.95	98.86
24	Sample 24	0.761	4.78	0.741	4.88	98.02
25	Sample 25	0.686	4.31	0.659	4.34	99.35
26	Sample 26	0.694	4.36	0.662	4.36	100.05
27	Sample 27	0.795	4.99	0.762	5.01	99.57
28	Sample 28	0.778	4.89	0.751	4.94	98.87
29	Sample 29	0.776	4.87	0.746	4.91	99.28
30	Sample 30	0.664	4.17	0.641	4.22	98.87
31	Sample 31	0.720	4.52	0.709	4.67	96.92
32	Sample 32	0.779	4.89	0.739	4.86	100.61
33	Sample 33	0.712	4.47	0.685	4.51	99.20

Comparison Evaluation Report of VDX Amylase Reagent Vs Avantor						
VDx Reagent				Avantor Reagent		
S.No.	Test	ΔAbs./min.	Conc (IU/L)	ΔAbs./min.	Conc (IU/L)	%
	Factor		3178		3178	
01	Sample 01	0.017	54.03	0.017	54.03	100.00
02	Sample 02	0.025	79.45	0.026	82.63	96.15
03	Sample 03	0.022	69.92	0.023	73.09	95.65
04	Sample 04	0.017	54.03	0.018	57.20	94.44
05	Sample 05	0.026	82.63	0.027	85.81	96.30
06	Sample 06	0.021	66.74	0.022	69.92	95.45
07	Sample 07	0.018	57.20	0.018	57.20	100.00
08	Sample 08	0.020	63.56	0.021	66.74	95.24
09	Sample 09	0.028	88.98	0.029	92.16	96.55
10	Sample 10	0.024	76.27	0.025	79.45	96.00
11	Sample 11	0.027	85.81	0.027	85.81	100.00
12	Sample 12	0.034	108.05	0.035	111.23	97.14
13	Sample 13	0.024	76.27	0.025	79.45	96.00
14	Sample 14	0.028	88.98	0.028	88.98	100.00
15	Sample 15	0.017	54.03	0.018	57.20	94.44
16	Sample 16	0.022	69.92	0.023	73.09	95.65
17	Sample 17	0.019	60.38	0.020	63.56	95.00
18	Sample 18	0.014	44.49	0.014	44.49	100.00
19	Sample 19	0.031	98.52	0.032	101.70	96.88
20	Sample 20	0.027	85.81	0.028	88.98	96.43
21	Sample 21	0.021	66.74	0.022	69.92	95.45
22	Sample 22	0.021	66.74	0.021	66.74	100.00
23	Sample 23	0.023	73.09	0.024	76.27	95.83
24	Sample 24	0.023	73.09	0.024	76.27	95.83
25	Sample 25	0.021	66.74	0.022	69.92	95.45
26	Sample 26	0.027	85.81	0.028	88.98	96.43
27	Sample 27	0.014	44.49	0.014	44.49	100.00
28	Sample 28	0.024	76.27	0.025	79.45	96.00
29	Sample 29	0.027	85.81	0.028	88.98	96.43
30	Sample 30	0.023	73.09	0.024	76.27	95.83
31	Sample 31	0.022	69.92	0.023	73.09	95.65
32	Sample 32	0.024	76.27	0.024	76.27	100.00
33	Sample 33	0.025	79.45	0.026	82.63	96.15

Coefficient of Variation: Precision

1. Biorad Controls Normal and Abnormal were used to calculate “Within Run” and “Between Run” Precision.
2. The Biorad Controls were tested in 25 replicates to study Precision.
3. Coefficient of Variation (CV %) was calculated.

- **Within Run CVs ranged between 0.21% and 3.12%**
- **Between Run CVs ranged between 0.49% and 3.04%**

Glucose

Within Run+AA3:I26				Between Run			
S.No.	Test	Abs.	Conc (mg/dl)	S.No.	Test	Abs.	Conc (mg/dl)
	Blank	0.026			Blank	0.027	
		C.Abs.				C.Abs.	
	Standard	0.363	275.48		Standard	0.361	277.01
01	Bio-Rad 1	0.326	89.81	01	Bio-Rad 1	0.325	90.03
02	Bio-Rad 1	0.327	90.08	02	Bio-Rad 1	0.326	90.31
03	Bio-Rad 1	0.325	89.53	03	Bio-Rad 1	0.326	90.31
04	Bio-Rad 1	0.325	89.53	04	Bio-Rad 1	0.332	91.97
05	Bio-Rad 1	0.325	89.53	05	Bio-Rad 1	0.326	90.31
06	Bio-Rad 1	0.326	89.81	06	Bio-Rad 1	0.330	91.41
07	Bio-Rad 1	0.326	89.81	07	Bio-Rad 1	0.326	90.31
08	Bio-Rad 1	0.326	89.81	08	Bio-Rad 1	0.326	90.31
09	Bio-Rad 1	0.325	89.53	09	Bio-Rad 1	0.325	90.03
10	Bio-Rad 1	0.326	89.81	10	Bio-Rad 1	0.326	90.31
11	Bio-Rad 1	0.326	89.81	11	Bio-Rad 1	0.325	90.03
12	Bio-Rad 1	0.327	90.08	12	Bio-Rad 1	0.328	90.86
13	Bio-Rad 1	0.326	89.81	13	Bio-Rad 1	0.326	90.31
14	Bio-Rad 1	0.327	90.08	14	Bio-Rad 1	0.330	91.41
15	Bio-Rad 1	0.326	89.81	15	Bio-Rad 1	0.330	91.41
16	Bio-Rad 1	0.325	89.53	16	Bio-Rad 1	0.326	90.31
17	Bio-Rad 1	0.326	89.81	17	Bio-Rad 1	0.329	91.14
18	Bio-Rad 1	0.326	89.81	18	Bio-Rad 1	0.326	90.31
19	Bio-Rad 1	0.327	90.08	19	Bio-Rad 1	0.325	90.03
20	Bio-Rad 1	0.326	89.81	20	Bio-Rad 1	0.330	91.41
21	Bio-Rad 1	0.324	89.26	21	Bio-Rad 1	0.326	90.31
22	Bio-Rad 1	0.327	90.08	22	Bio-Rad 1	0.326	90.31
23	Bio-Rad 1	0.326	89.81	23	Bio-Rad 1	0.330	91.41
24	Bio-Rad 1	0.325	89.53	24	Bio-Rad 1	0.326	90.31
25	Bio-Rad 1	0.326	89.81	25	Bio-Rad 1	0.326	90.31
Mean		89.77		Mean		90.60	
S.D.		0.22		S.D.		0.58	
CV		0.00		CV		0.01	
CV%		0.24		CV%		0.64	
26	Bio-Rad 2	1.068	294.21	26	Bio-Rad 2	1.062	294.18
27	Bio-Rad 2	1.072	295.31	27	Bio-Rad 2	1.088	301.39
28	Bio-Rad 2	1.054	290.36	28	Bio-Rad 2	1.100	304.71
29	Bio-Rad 2	1.054	290.36	29	Bio-Rad 2	1.096	303.60
30	Bio-Rad 2	1.088	299.72	30	Bio-Rad 2	1.080	299.17
31	Bio-Rad 2	1.053	290.08	31	Bio-Rad 2	1.099	304.43
32	Bio-Rad 2	1.053	290.08	32	Bio-Rad 2	1.100	304.71
33	Bio-Rad 2	1.052	289.80	33	Bio-Rad 2	1.088	301.39
34	Bio-Rad 2	1.053	290.08	34	Bio-Rad 2	1.058	293.08
35	Bio-Rad 2	1.082	298.07	35	Bio-Rad 2	1.081	299.45
36	Bio-Rad 2	1.053	290.08	36	Bio-Rad 2	1.075	297.79
37	Bio-Rad 2	1.053	290.08	37	Bio-Rad 2	1.088	301.39
38	Bio-Rad 2	1.078	296.97	38	Bio-Rad 2	1.100	304.71
39	Bio-Rad 2	1.052	289.80	39	Bio-Rad 2	1.076	298.06
40	Bio-Rad 2	1.052	289.80	40	Bio-Rad 2	1.092	302.49
41	Bio-Rad 2	1.053	290.08	41	Bio-Rad 2	1.080	299.17
42	Bio-Rad 2	1.082	298.07	42	Bio-Rad 2	1.062	294.18
43	Bio-Rad 2	1.052	289.80	43	Bio-Rad 2	1.099	304.43
44	Bio-Rad 2	1.088	299.72	44	Bio-Rad 2	1.072	296.95
45	Bio-Rad 2	1.053	290.08	45	Bio-Rad 2	1.068	295.85
46	Bio-Rad 2	1.053	290.08	46	Bio-Rad 2	1.080	299.17
47	Bio-Rad 2	1.072	295.31	47	Bio-Rad 2	1.095	303.33
48	Bio-Rad 2	1.053	290.08	48	Bio-Rad 2	1.075	297.79
49	Bio-Rad 2	1.052	289.80	49	Bio-Rad 2	1.100	304.71
50	Bio-Rad 2	1.054	290.36	50	Bio-Rad 2	1.102	305.27
Mean		292.33		Mean		300.46	
S.D.		3.58		S.D.		3.79	
CV		0.01		CV		0.01	
CV%		1.22		CV%		1.26	

Creatinine

Within Run					Between Run			
S.No.	Test	Abs.	Conc (mg/dl)		S.No.	Test	Abs.	Conc (mg/dl)
	Standard	0.044	45.45			Standard	0.043	46.51
01	Bio-Rad 1	0.048	2.18		01	Bio-Rad 1	0.047	2.19
02	Bio-Rad 1	0.048	2.18		02	Bio-Rad 1	0.047	2.19
03	Bio-Rad 1	0.048	2.18		03	Bio-Rad 1	0.047	2.19
04	Bio-Rad 1	0.049	2.23		04	Bio-Rad 1	0.048	2.23
05	Bio-Rad 1	0.048	2.18		05	Bio-Rad 1	0.047	2.19
06	Bio-Rad 1	0.048	2.18		06	Bio-Rad 1	0.048	2.23
07	Bio-Rad 1	0.049	2.23		07	Bio-Rad 1	0.047	2.19
08	Bio-Rad 1	0.048	2.18		08	Bio-Rad 1	0.047	2.19
09	Bio-Rad 1	0.048	2.18		09	Bio-Rad 1	0.048	2.23
10	Bio-Rad 1	0.048	2.18		10	Bio-Rad 1	0.047	2.19
11	Bio-Rad 1	0.048	2.18		11	Bio-Rad 1	0.047	2.19
12	Bio-Rad 1	0.048	2.18		12	Bio-Rad 1	0.048	2.23
13	Bio-Rad 1	0.048	2.18		13	Bio-Rad 1	0.048	2.23
14	Bio-Rad 1	0.048	2.18		14	Bio-Rad 1	0.047	2.19
15	Bio-Rad 1	0.048	2.18		15	Bio-Rad 1	0.047	2.19
16	Bio-Rad 1	0.047	2.14		16	Bio-Rad 1	0.047	2.19
17	Bio-Rad 1	0.048	2.18		17	Bio-Rad 1	0.047	2.19
18	Bio-Rad 1	0.048	2.18		18	Bio-Rad 1	0.046	2.14
19	Bio-Rad 1	0.048	2.18		19	Bio-Rad 1	0.047	2.19
20	Bio-Rad 1	0.049	2.23		20	Bio-Rad 1	0.047	2.19
21	Bio-Rad 1	0.048	2.18		21	Bio-Rad 1	0.047	2.19
22	Bio-Rad 1	0.048	2.18		22	Bio-Rad 1	0.047	2.19
23	Bio-Rad 1	0.047	2.14		23	Bio-Rad 1	0.048	2.23
24	Bio-Rad 1	0.048	2.18		24	Bio-Rad 1	0.047	2.19
25	Bio-Rad 1	0.048	2.18		25	Bio-Rad 1	0.047	2.19
Mean			2.18		Mean			2.20
S.D.			0.02		S.D.			0.02
CV			0.01		CV			0.01
CV%			0.95		CV%			1.06
26	Bio-Rad 2	0.106	4.82		26	Bio-Rad 2	0.105	4.88
27	Bio-Rad 2	0.107	4.86		27	Bio-Rad 2	0.106	4.93
28	Bio-Rad 2	0.107	4.86		28	Bio-Rad 2	0.106	4.93
29	Bio-Rad 2	0.107	4.86		29	Bio-Rad 2	0.106	4.93
30	Bio-Rad 2	0.107	4.86		30	Bio-Rad 2	0.106	4.93
31	Bio-Rad 2	0.106	4.82		31	Bio-Rad 2	0.107	4.98
32	Bio-Rad 2	0.106	4.82		32	Bio-Rad 2	0.106	4.93
33	Bio-Rad 2	0.107	4.86		33	Bio-Rad 2	0.106	4.93
34	Bio-Rad 2	0.107	4.86		34	Bio-Rad 2	0.107	4.98
35	Bio-Rad 2	0.107	4.86		35	Bio-Rad 2	0.106	4.93
36	Bio-Rad 2	0.106	4.82		36	Bio-Rad 2	0.106	4.93
37	Bio-Rad 2	0.106	4.82		37	Bio-Rad 2	0.106	4.93
38	Bio-Rad 2	0.107	4.86		38	Bio-Rad 2	0.107	4.98
39	Bio-Rad 2	0.107	4.86		39	Bio-Rad 2	0.106	4.93
40	Bio-Rad 2	0.107	4.86		40	Bio-Rad 2	0.106	4.93
41	Bio-Rad 2	0.106	4.82		41	Bio-Rad 2	0.107	4.98
42	Bio-Rad 2	0.107	4.86		42	Bio-Rad 2	0.106	4.93
43	Bio-Rad 2	0.107	4.86		43	Bio-Rad 2	0.106	4.93
44	Bio-Rad 2	0.106	4.82		44	Bio-Rad 2	0.107	4.98
45	Bio-Rad 2	0.107	4.86		45	Bio-Rad 2	0.108	5.02
46	Bio-Rad 2	0.107	4.86		46	Bio-Rad 2	0.106	4.93
47	Bio-Rad 2	0.107	4.86		47	Bio-Rad 2	0.106	4.93
48	Bio-Rad 2	0.106	4.82		48	Bio-Rad 2	0.107	4.98
49	Bio-Rad 2	0.106	4.82		49	Bio-Rad 2	0.106	4.93
50	Bio-Rad 2	0.107	4.86		50	Bio-Rad 2	0.106	4.93
Mean			4.85		Mean			4.94
S.D.			0.02		S.D.			0.03
CV			0.00		CV			0.01
CV%			0.46		CV%			0.58

Urea UV

Within Run					Between Run			
S.No.	Test	Abs.	Conc (mg/dl)		S.No.	Test	Abs.	Conc (mg/dl)
	Standard	0.091				Standard	0.090	
01	Bio-Rad 1	0.068	37.36		01	Bio-Rad 1	0.067	37.22
02	Bio-Rad 1	0.068	37.36		02	Bio-Rad 1	0.067	37.22
03	Bio-Rad 1	0.069	37.91		03	Bio-Rad 1	0.067	37.22
04	Bio-Rad 1	0.069	37.91		04	Bio-Rad 1	0.068	37.78
05	Bio-Rad 1	0.068	37.36		05	Bio-Rad 1	0.068	37.78
06	Bio-Rad 1	0.068	37.36		06	Bio-Rad 1	0.067	37.22
07	Bio-Rad 1	0.068	37.36		07	Bio-Rad 1	0.067	37.22
08	Bio-Rad 1	0.068	37.36		08	Bio-Rad 1	0.067	37.22
09	Bio-Rad 1	0.068	37.36		09	Bio-Rad 1	0.068	37.78
10	Bio-Rad 1	0.069	37.91		10	Bio-Rad 1	0.067	37.22
11	Bio-Rad 1	0.069	37.91		11	Bio-Rad 1	0.069	38.33
12	Bio-Rad 1	0.068	37.36		12	Bio-Rad 1	0.067	37.22
13	Bio-Rad 1	0.068	37.36		13	Bio-Rad 1	0.067	37.22
14	Bio-Rad 1	0.067	36.81		14	Bio-Rad 1	0.067	37.22
15	Bio-Rad 1	0.068	37.36		15	Bio-Rad 1	0.067	37.22
16	Bio-Rad 1	0.068	37.36		16	Bio-Rad 1	0.067	37.22
17	Bio-Rad 1	0.068	37.36		17	Bio-Rad 1	0.068	37.78
18	Bio-Rad 1	0.068	37.36		18	Bio-Rad 1	0.067	37.22
19	Bio-Rad 1	0.068	37.36		19	Bio-Rad 1	0.067	37.22
20	Bio-Rad 1	0.069	37.91		20	Bio-Rad 1	0.069	38.33
21	Bio-Rad 1	0.068	37.36		21	Bio-Rad 1	0.067	37.22
22	Bio-Rad 1	0.067	36.81		22	Bio-Rad 1	0.067	37.22
23	Bio-Rad 1	0.068	37.36		23	Bio-Rad 1	0.069	38.33
24	Bio-Rad 1	0.068	37.36		24	Bio-Rad 1	0.067	37.22
25	Bio-Rad 1	0.068	37.36		25	Bio-Rad 1	0.067	37.22
Mean			37.43		Mean			37.44
S.D.			0.29		S.D.			0.39
CV			0.01		CV			0.01
CV%			0.77		CV%			1.05
26	Bio-Rad 2	0.186	102.20		26	Bio-Rad 2	0.185	102.78
27	Bio-Rad 2	0.186	102.20		27	Bio-Rad 2	0.192	106.67
28	Bio-Rad 2	0.188	103.30		28	Bio-Rad 2	0.186	103.33
29	Bio-Rad 2	0.186	102.20		29	Bio-Rad 2	0.187	103.89
30	Bio-Rad 2	0.186	102.20		30	Bio-Rad 2	0.186	103.33
31	Bio-Rad 2	0.186	102.20		31	Bio-Rad 2	0.185	102.78
32	Bio-Rad 2	0.186	102.20		32	Bio-Rad 2	0.187	103.89
33	Bio-Rad 2	0.187	102.75		33	Bio-Rad 2	0.188	104.45
34	Bio-Rad 2	0.186	102.20		34	Bio-Rad 2	0.190	105.56
35	Bio-Rad 2	0.186	102.20		35	Bio-Rad 2	0.187	103.89
36	Bio-Rad 2	0.188	103.30		36	Bio-Rad 2	0.185	102.78
37	Bio-Rad 2	0.186	102.20		37	Bio-Rad 2	0.185	102.78
38	Bio-Rad 2	0.185	101.65		38	Bio-Rad 2	0.187	103.89
39	Bio-Rad 2	0.186	102.20		39	Bio-Rad 2	0.185	102.78
40	Bio-Rad 2	0.186	102.20		40	Bio-Rad 2	0.185	102.78
41	Bio-Rad 2	0.186	102.20		41	Bio-Rad 2	0.186	103.33
42	Bio-Rad 2	0.186	102.20		42	Bio-Rad 2	0.190	105.56
43	Bio-Rad 2	0.185	101.65		43	Bio-Rad 2	0.187	103.89
44	Bio-Rad 2	0.186	102.20		44	Bio-Rad 2	0.187	103.89
45	Bio-Rad 2	0.184	101.10		45	Bio-Rad 2	0.186	103.33
46	Bio-Rad 2	0.186	102.20		46	Bio-Rad 2	0.187	103.89
47	Bio-Rad 2	0.184	101.10		47	Bio-Rad 2	0.192	106.67
48	Bio-Rad 2	0.186	102.20		48	Bio-Rad 2	0.187	103.89
49	Bio-Rad 2	0.186	102.20		49	Bio-Rad 2	0.185	102.78
50	Bio-Rad 2	0.186	102.20		50	Bio-Rad 2	0.186	103.33
Mean			102.18		Mean			103.85
S.D.			0.49		S.D.			1.14
CV			0.00		CV			0.01
CV%			0.48		CV%			1.10

Uric Acid

Within Run				Between Run			
S.No.	Test	Abs.	Conc (mg/dl)	S.No.	Test	Abs.	Conc (mg/dl)
	Blank	0.026			Blank	0.020	
		C.Abs.				C.Abs.	
	Standard	0.212	28.30		Standard	0.216	27.78
01	Bio-Rad 1	0.206	5.83	01	Bio-Rad 1	0.215	5.97
02	Bio-Rad 1	0.210	5.94	02	Bio-Rad 1	0.211	5.86
03	Bio-Rad 1	0.204	5.77	03	Bio-Rad 1	0.208	5.78
04	Bio-Rad 1	0.209	5.91	04	Bio-Rad 1	0.212	5.89
05	Bio-Rad 1	0.208	5.89	05	Bio-Rad 1	0.216	6.00
06	Bio-Rad 1	0.204	5.77	06	Bio-Rad 1	0.212	5.89
07	Bio-Rad 1	0.209	5.91	07	Bio-Rad 1	0.212	5.89
08	Bio-Rad 1	0.208	5.89	08	Bio-Rad 1	0.212	5.89
09	Bio-Rad 1	0.209	5.91	09	Bio-Rad 1	0.215	5.97
10	Bio-Rad 1	0.204	5.77	10	Bio-Rad 1	0.212	5.89
11	Bio-Rad 1	0.208	5.89	11	Bio-Rad 1	0.213	5.92
12	Bio-Rad 1	0.209	5.91	12	Bio-Rad 1	0.213	5.92
13	Bio-Rad 1	0.211	5.97	13	Bio-Rad 1	0.218	6.06
14	Bio-Rad 1	0.208	5.89	14	Bio-Rad 1	0.212	5.89
15	Bio-Rad 1	0.212	6.00	15	Bio-Rad 1	0.212	5.89
16	Bio-Rad 1	0.209	5.91	16	Bio-Rad 1	0.217	6.03
17	Bio-Rad 1	0.209	5.91	17	Bio-Rad 1	0.212	5.89
18	Bio-Rad 1	0.204	5.77	18	Bio-Rad 1	0.212	5.89
19	Bio-Rad 1	0.208	5.89	19	Bio-Rad 1	0.208	5.78
20	Bio-Rad 1	0.202	5.72	20	Bio-Rad 1	0.216	6.00
21	Bio-Rad 1	0.202	5.72	21	Bio-Rad 1	0.212	5.89
22	Bio-Rad 1	0.208	5.89	22	Bio-Rad 1	0.216	6.00
23	Bio-Rad 1	0.208	5.89	23	Bio-Rad 1	0.212	5.89
24	Bio-Rad 1	0.208	5.89	24	Bio-Rad 1	0.208	5.78
25	Bio-Rad 1	0.208	5.89	25	Bio-Rad 1	0.212	5.89
Mean			5.87	Mean			5.91
S.D.			0.07	S.D.			0.07
CV			0.01	CV			0.01
CV%			1.27	CV%			1.23
26	Bio-Rad 2	0.317	8.97	26	Bio-Rad 2	0.321	8.92
27	Bio-Rad 2	0.318	9.00	27	Bio-Rad 2	0.322	8.95
28	Bio-Rad 2	0.318	9.00	28	Bio-Rad 2	0.322	8.95
29	Bio-Rad 2	0.318	9.00	29	Bio-Rad 2	0.322	8.95
30	Bio-Rad 2	0.318	9.00	30	Bio-Rad 2	0.318	8.83
31	Bio-Rad 2	0.317	8.97	31	Bio-Rad 2	0.322	8.95
32	Bio-Rad 2	0.317	8.97	32	Bio-Rad 2	0.325	9.03
33	Bio-Rad 2	0.318	9.00	33	Bio-Rad 2	0.322	8.95
34	Bio-Rad 2	0.318	9.00	34	Bio-Rad 2	0.322	8.95
35	Bio-Rad 2	0.318	9.00	35	Bio-Rad 2	0.325	9.03
36	Bio-Rad 2	0.319	9.03	36	Bio-Rad 2	0.322	8.95
37	Bio-Rad 2	0.317	8.97	37	Bio-Rad 2	0.325	9.03
38	Bio-Rad 2	0.318	9.00	38	Bio-Rad 2	0.326	9.06
39	Bio-Rad 2	0.318	9.00	39	Bio-Rad 2	0.321	8.92
40	Bio-Rad 2	0.319	9.03	40	Bio-Rad 2	0.322	8.95
41	Bio-Rad 2	0.319	9.03	41	Bio-Rad 2	0.322	8.95
42	Bio-Rad 2	0.319	9.03	42	Bio-Rad 2	0.322	8.95
43	Bio-Rad 2	0.319	9.03	43	Bio-Rad 2	0.322	8.95
44	Bio-Rad 2	0.317	8.97	44	Bio-Rad 2	0.322	8.95
45	Bio-Rad 2	0.318	9.00	45	Bio-Rad 2	0.322	8.95
46	Bio-Rad 2	0.317	8.97	46	Bio-Rad 2	0.323	8.97
47	Bio-Rad 2	0.318	9.00	47	Bio-Rad 2	0.322	8.95
48	Bio-Rad 2	0.318	9.00	48	Bio-Rad 2	0.322	8.95
49	Bio-Rad 2	0.318	9.00	49	Bio-Rad 2	0.321	8.92
50	Bio-Rad 2	0.318	9.00	50	Bio-Rad 2	0.322	8.95
Mean			9.00	Mean			8.95
S.D.			0.02	S.D.			0.04
CV			0.00	CV			0.00
CV%			0.21	CV%			0.49

Triglycerides

Within Run				Between Run			
S.No.	Test	Abs.	Conc (mg/dl)	S.No.	Test	Abs.	Conc (mg/dl)
	Blank	0.026			Blank	0.032	
		C.Abs.				C.Abs.	
	Standard	0.267			Standard	0.269	743.49
01	Bio-Rad 1	0.214	160.30	01	Bio-Rad 1	0.215	159.85
02	Bio-Rad 1	0.214	160.30	02	Bio-Rad 1	0.217	162.55
03	Bio-Rad 1	0.214	160.30	03	Bio-Rad 1	0.216	161.80
04	Bio-Rad 1	0.213	159.55	04	Bio-Rad 1	0.218	163.30
05	Bio-Rad 1	0.214	160.30	05	Bio-Rad 1	0.217	162.55
06	Bio-Rad 1	0.213	159.55	06	Bio-Rad 1	0.217	162.55
07	Bio-Rad 1	0.212	158.80	07	Bio-Rad 1	0.217	162.55
08	Bio-Rad 1	0.211	158.05	08	Bio-Rad 1	0.219	164.04
09	Bio-Rad 1	0.211	158.05	09	Bio-Rad 1	0.216	161.80
10	Bio-Rad 1	0.210	157.30	10	Bio-Rad 1	0.216	161.80
11	Bio-Rad 1	0.211	158.05	11	Bio-Rad 1	0.214	160.30
12	Bio-Rad 1	0.212	158.80	12	Bio-Rad 1	0.217	162.55
13	Bio-Rad 1	0.213	159.55	13	Bio-Rad 1	0.219	164.04
14	Bio-Rad 1	0.211	158.05	14	Bio-Rad 1	0.216	161.80
15	Bio-Rad 1	0.212	158.80	15	Bio-Rad 1	0.215	161.05
16	Bio-Rad 1	0.213	159.55	16	Bio-Rad 1	0.219	164.04
17	Bio-Rad 1	0.213	159.55	17	Bio-Rad 1	0.216	161.80
18	Bio-Rad 1	0.213	159.55	18	Bio-Rad 1	0.216	161.80
19	Bio-Rad 1	0.212	158.80	19	Bio-Rad 1	0.216	161.80
20	Bio-Rad 1	0.213	159.55	20	Bio-Rad 1	0.212	158.80
21	Bio-Rad 1	0.213	159.55	21	Bio-Rad 1	0.216	161.80
22	Bio-Rad 1	0.213	159.55	22	Bio-Rad 1	0.219	164.04
23	Bio-Rad 1	0.213	159.55	23	Bio-Rad 1	0.217	162.55
24	Bio-Rad 1	0.212	158.80	24	Bio-Rad 1	0.217	162.55
25	Bio-Rad 1	0.214	160.30	25	Bio-Rad 1	0.216	161.80
Mean			159.22	Mean			162.14
S.D.			0.84	S.D.			1.28
CV			0.01	CV			0.01
CV%			0.53	CV%			0.79
26	Bio-Rad 2	0.096	71.91	26	Bio-Rad 2	0.096	71.38
27	Bio-Rad 2	0.096	71.91	27	Bio-Rad 2	0.095	70.63
28	Bio-Rad 2	0.095	71.16	28	Bio-Rad 2	0.095	70.63
29	Bio-Rad 2	0.097	72.66	29	Bio-Rad 2	0.095	70.63
30	Bio-Rad 2	0.096	71.91	30	Bio-Rad 2	0.098	72.86
31	Bio-Rad 2	0.096	71.91	31	Bio-Rad 2	0.095	70.63
32	Bio-Rad 2	0.097	72.66	32	Bio-Rad 2	0.094	69.89
33	Bio-Rad 2	0.096	71.91	33	Bio-Rad 2	0.092	68.40
34	Bio-Rad 2	0.095	71.16	34	Bio-Rad 2	0.095	70.63
35	Bio-Rad 2	0.095	71.16	35	Bio-Rad 2	0.096	71.38
36	Bio-Rad 2	0.097	72.66	36	Bio-Rad 2	0.095	70.63
37	Bio-Rad 2	0.097	72.66	37	Bio-Rad 2	0.095	70.63
38	Bio-Rad 2	0.097	72.66	38	Bio-Rad 2	0.099	73.61
39	Bio-Rad 2	0.097	72.66	39	Bio-Rad 2	0.095	70.63
40	Bio-Rad 2	0.097	72.66	40	Bio-Rad 2	0.095	70.63
41	Bio-Rad 2	0.097	72.66	41	Bio-Rad 2	0.094	69.89
42	Bio-Rad 2	0.097	72.66	42	Bio-Rad 2	0.099	73.61
43	Bio-Rad 2	0.097	72.66	43	Bio-Rad 2	0.094	69.89
44	Bio-Rad 2	0.097	72.66	44	Bio-Rad 2	0.095	70.63
45	Bio-Rad 2	0.097	72.66	45	Bio-Rad 2	0.099	73.61
46	Bio-Rad 2	0.097	72.66	46	Bio-Rad 2	0.095	70.63
47	Bio-Rad 2	0.097	72.66	47	Bio-Rad 2	0.095	70.63
48	Bio-Rad 2	0.097	72.66	48	Bio-Rad 2	0.099	73.61
49	Bio-Rad 2	0.097	72.66	49	Bio-Rad 2	0.095	70.63
50	Bio-Rad 2	0.097	72.66	50	Bio-Rad 2	0.095	70.63
Mean			72.33	Mean			71.08
S.D.			0.53	S.D.			1.34
CV			0.01	CV			0.02
CV%			0.74	CV%			1.89

Cholesterol

Within Run				Between Run			
S.No.	Test	Abs.	Conc (mg/dl)	S.No.	Test	Abs.	Conc (mg/dl)
	Blank	0.017			Blank	0.017	
		C.Abs.				C.Abs.	
	Standard	0.337	593.47		Standard	0.334	598.80
01	Bio-Rad 1	0.424	251.63	01	Bio-Rad 1	0.425	254.49
02	Bio-Rad 1	0.424	251.63	02	Bio-Rad 1	0.421	252.09
03	Bio-Rad 1	0.425	252.22	03	Bio-Rad 1	0.422	252.69
04	Bio-Rad 1	0.425	252.22	04	Bio-Rad 1	0.426	255.09
05	Bio-Rad 1	0.425	252.22	05	Bio-Rad 1	0.421	252.09
06	Bio-Rad 1	0.424	251.63	06	Bio-Rad 1	0.425	254.49
07	Bio-Rad 1	0.424	251.63	07	Bio-Rad 1	0.421	252.09
08	Bio-Rad 1	0.426	252.82	08	Bio-Rad 1	0.420	251.50
09	Bio-Rad 1	0.427	253.41	09	Bio-Rad 1	0.418	250.30
10	Bio-Rad 1	0.425	252.22	10	Bio-Rad 1	0.421	252.09
11	Bio-Rad 1	0.425	252.22	11	Bio-Rad 1	0.421	252.09
12	Bio-Rad 1	0.424	251.63	12	Bio-Rad 1	0.421	252.09
13	Bio-Rad 1	0.426	252.82	13	Bio-Rad 1	0.425	254.49
14	Bio-Rad 1	0.426	252.82	14	Bio-Rad 1	0.421	252.09
15	Bio-Rad 1	0.424	251.63	15	Bio-Rad 1	0.425	254.49
16	Bio-Rad 1	0.423	251.04	16	Bio-Rad 1	0.421	252.09
17	Bio-Rad 1	0.425	252.22	17	Bio-Rad 1	0.421	252.09
18	Bio-Rad 1	0.428	254.01	18	Bio-Rad 1	0.418	250.30
19	Bio-Rad 1	0.425	252.22	19	Bio-Rad 1	0.421	252.09
20	Bio-Rad 1	0.425	252.22	20	Bio-Rad 1	0.420	251.50
21	Bio-Rad 1	0.425	252.22	21	Bio-Rad 1	0.425	254.49
22	Bio-Rad 1	0.426	252.82	22	Bio-Rad 1	0.421	252.09
23	Bio-Rad 1	0.425	252.22	23	Bio-Rad 1	0.424	253.89
24	Bio-Rad 1	0.424	251.63	24	Bio-Rad 1	0.421	252.09
25	Bio-Rad 1	0.423	251.04	25	Bio-Rad 1	0.424	253.89
Mean			252.18	Mean			252.67
S.D.			0.68	S.D.			1.34
CV			0.00	CV			0.01
CV%			0.27	CV%			0.53
26	Bio-Rad 2	0.190	112.76	26	Bio-Rad 2	0.190	113.77
27	Bio-Rad 2	0.188	111.57	27	Bio-Rad 2	0.190	113.77
28	Bio-Rad 2	0.188	111.57	28	Bio-Rad 2	0.199	119.16
29	Bio-Rad 2	0.188	111.57	29	Bio-Rad 2	0.189	113.17
30	Bio-Rad 2	0.189	112.17	30	Bio-Rad 2	0.189	113.17
31	Bio-Rad 2	0.188	111.57	31	Bio-Rad 2	0.192	114.97
32	Bio-Rad 2	0.188	111.57	32	Bio-Rad 2	0.189	113.17
33	Bio-Rad 2	0.188	111.57	33	Bio-Rad 2	0.196	117.36
34	Bio-Rad 2	0.189	112.17	34	Bio-Rad 2	0.188	112.57
35	Bio-Rad 2	0.189	112.17	35	Bio-Rad 2	0.189	113.17
36	Bio-Rad 2	0.189	112.17	36	Bio-Rad 2	0.189	113.17
37	Bio-Rad 2	0.188	111.57	37	Bio-Rad 2	0.186	111.38
38	Bio-Rad 2	0.188	111.57	38	Bio-Rad 2	0.189	113.17
39	Bio-Rad 2	0.188	111.57	39	Bio-Rad 2	0.189	113.17
40	Bio-Rad 2	0.188	111.57	40	Bio-Rad 2	0.198	118.56
41	Bio-Rad 2	0.189	112.17	41	Bio-Rad 2	0.189	113.17
42	Bio-Rad 2	0.188	111.57	42	Bio-Rad 2	0.189	113.17
43	Bio-Rad 2	0.189	112.17	43	Bio-Rad 2	0.189	113.17
44	Bio-Rad 2	0.188	111.57	44	Bio-Rad 2	0.196	117.36
45	Bio-Rad 2	0.188	111.57	45	Bio-Rad 2	0.189	113.17
46	Bio-Rad 2	0.189	112.17	46	Bio-Rad 2	0.189	113.17
47	Bio-Rad 2	0.188	111.57	47	Bio-Rad 2	0.196	117.36
48	Bio-Rad 2	0.189	112.17	48	Bio-Rad 2	0.189	113.17
49	Bio-Rad 2	0.188	111.57	49	Bio-Rad 2	0.189	113.17
50	Bio-Rad 2	0.188	111.57	50	Bio-Rad 2	0.195	116.77
Mean			111.81	Mean			114.30
S.D.			0.34	S.D.			2.11
CV			0.00	CV			0.02
CV%			0.31	CV%			1.84

SGOT

Within Run				Between Run			
S.No.	Test	Abs.	Conc (IU/L)	S.No.	Test	Abs.	Conc (IU/L)
	Factor	1746					
01	Bio-Rad 1	0.025	43.65	01	Bio-Rad 1	0.024	41.90
02	Bio-Rad 1	0.025	43.65	02	Bio-Rad 1	0.025	43.65
03	Bio-Rad 1	0.025	43.65	03	Bio-Rad 1	0.025	43.65
04	Bio-Rad 1	0.025	43.65	04	Bio-Rad 1	0.025	43.65
05	Bio-Rad 1	0.025	43.65	05	Bio-Rad 1	0.025	43.65
06	Bio-Rad 1	0.025	43.65	06	Bio-Rad 1	0.025	43.65
07	Bio-Rad 1	0.025	43.65	07	Bio-Rad 1	0.025	43.65
08	Bio-Rad 1	0.025	43.65	08	Bio-Rad 1	0.024	41.90
09	Bio-Rad 1	0.025	43.65	09	Bio-Rad 1	0.025	43.65
10	Bio-Rad 1	0.025	43.65	10	Bio-Rad 1	0.025	43.65
11	Bio-Rad 1	0.024	41.90	11	Bio-Rad 1	0.025	43.65
12	Bio-Rad 1	0.025	43.65	12	Bio-Rad 1	0.025	43.65
13	Bio-Rad 1	0.025	43.65	13	Bio-Rad 1	0.025	43.65
14	Bio-Rad 1	0.024	41.90	14	Bio-Rad 1	0.025	43.65
15	Bio-Rad 1	0.024	41.90	15	Bio-Rad 1	0.025	43.65
16	Bio-Rad 1	0.024	41.90	16	Bio-Rad 1	0.024	41.90
17	Bio-Rad 1	0.025	43.65	17	Bio-Rad 1	0.025	43.65
18	Bio-Rad 1	0.025	43.65	18	Bio-Rad 1	0.024	41.90
19	Bio-Rad 1	0.025	43.65	19	Bio-Rad 1	0.025	43.65
20	Bio-Rad 1	0.025	43.65	20	Bio-Rad 1	0.025	43.65
21	Bio-Rad 1	0.025	43.65	21	Bio-Rad 1	0.025	43.65
22	Bio-Rad 1	0.025	43.65	22	Bio-Rad 1	0.025	43.65
23	Bio-Rad 1	0.025	43.65	23	Bio-Rad 1	0.025	43.65
24	Bio-Rad 1	0.025	43.65	24	Bio-Rad 1	0.025	43.65
25	Bio-Rad 1	0.025	43.65	25	Bio-Rad 1	0.025	43.65
Mean			43.37	Mean			43.37
S.D.			0.65	S.D.			0.65
CV			0.02	CV			0.02
CV%			1.51	CV%			1.51
01	Bio-Rad 2	0.097	169.36	26	Bio-Rad 2	0.097	169.36
02	Bio-Rad 2	0.097	169.36	27	Bio-Rad 2	0.097	169.36
03	Bio-Rad 2	0.097	169.36	28	Bio-Rad 2	0.096	167.62
04	Bio-Rad 2	0.096	167.62	29	Bio-Rad 2	0.097	169.36
05	Bio-Rad 2	0.097	169.36	30	Bio-Rad 2	0.097	169.36
06	Bio-Rad 2	0.097	169.36	31	Bio-Rad 2	0.097	169.36
07	Bio-Rad 2	0.097	169.36	32	Bio-Rad 2	0.099	172.85
08	Bio-Rad 2	0.097	169.36	33	Bio-Rad 2	0.097	169.36
09	Bio-Rad 2	0.097	169.36	34	Bio-Rad 2	0.097	169.36
10	Bio-Rad 2	0.097	169.36	35	Bio-Rad 2	0.096	167.62
11	Bio-Rad 2	0.096	167.62	36	Bio-Rad 2	0.097	169.36
12	Bio-Rad 2	0.096	167.62	37	Bio-Rad 2	0.094	164.12
13	Bio-Rad 2	0.097	169.36	38	Bio-Rad 2	0.097	169.36
14	Bio-Rad 2	0.099	172.85	39	Bio-Rad 2	0.097	169.36
15	Bio-Rad 2	0.097	169.36	40	Bio-Rad 2	0.095	165.87
16	Bio-Rad 2	0.097	169.36	41	Bio-Rad 2	0.097	169.36
17	Bio-Rad 2	0.096	167.62	42	Bio-Rad 2	0.097	169.36
18	Bio-Rad 2	0.099	172.85	43	Bio-Rad 2	0.099	172.85
19	Bio-Rad 2	0.097	169.36	44	Bio-Rad 2	0.097	169.36
20	Bio-Rad 2	0.096	167.62	45	Bio-Rad 2	0.097	169.36
21	Bio-Rad 2	0.097	169.36	46	Bio-Rad 2	0.096	167.62
22	Bio-Rad 2	0.097	169.36	47	Bio-Rad 2	0.094	164.12
23	Bio-Rad 2	0.098	171.11	48	Bio-Rad 2	0.099	172.85
24	Bio-Rad 2	0.099	172.85	49	Bio-Rad 2	0.099	172.85
25	Bio-Rad 2	0.097	169.36	50	Bio-Rad 2	0.097	169.36
Mean			169.50	Mean			169.15
S.D.			1.51	S.D.			2.27
CV			0.01	CV			0.01
CV%			0.89	CV%			1.34

SGPT

Within Run				Between Run			
S.No.	Test	Abs.	Conc (IU/L)	S.No.	Test	Abs.	Conc (IU/L)
	Factor	1746					
01	Bio-Rad 1	0.015	26.19	01	Bio-Rad 1	0.015	26.19
02	Bio-Rad 1	0.015	26.19	02	Bio-Rad 1	0.015	26.19
03	Bio-Rad 1	0.015	26.19	03	Bio-Rad 1	0.015	26.19
04	Bio-Rad 1	0.016	27.94	04	Bio-Rad 1	0.015	26.19
05	Bio-Rad 1	0.015	26.19	05	Bio-Rad 1	0.016	27.94
06	Bio-Rad 1	0.016	27.94	06	Bio-Rad 1	0.015	26.19
07	Bio-Rad 1	0.015	26.19	07	Bio-Rad 1	0.015	26.19
08	Bio-Rad 1	0.015	26.19	08	Bio-Rad 1	0.015	26.19
09	Bio-Rad 1	0.015	26.19	09	Bio-Rad 1	0.016	27.94
10	Bio-Rad 1	0.016	27.94	10	Bio-Rad 1	0.015	26.19
11	Bio-Rad 1	0.015	26.19	11	Bio-Rad 1	0.015	26.19
12	Bio-Rad 1	0.015	26.19	12	Bio-Rad 1	0.015	26.19
13	Bio-Rad 1	0.014	24.44	13	Bio-Rad 1	0.015	26.19
14	Bio-Rad 1	0.015	26.19	14	Bio-Rad 1	0.015	26.19
15	Bio-Rad 1	0.015	26.19	15	Bio-Rad 1	0.015	26.19
16	Bio-Rad 1	0.016	27.94	16	Bio-Rad 1	0.015	26.19
17	Bio-Rad 1	0.015	26.19	17	Bio-Rad 1	0.015	26.19
18	Bio-Rad 1	0.015	26.19	18	Bio-Rad 1	0.015	26.19
19	Bio-Rad 1	0.015	26.19	19	Bio-Rad 1	0.016	27.94
20	Bio-Rad 1	0.015	26.19	20	Bio-Rad 1	0.015	26.19
21	Bio-Rad 1	0.016	27.94	21	Bio-Rad 1	0.015	26.19
22	Bio-Rad 1	0.015	26.19	22	Bio-Rad 1	0.015	26.19
23	Bio-Rad 1	0.015	26.19	23	Bio-Rad 1	0.015	26.19
24	Bio-Rad 1	0.015	26.19	24	Bio-Rad 1	0.015	26.19
25	Bio-Rad 1	0.015	26.19	25	Bio-Rad 1	0.015	26.19
Mean			26.47	Mean			26.40
S.D.			0.83	S.D.			0.58
CV			0.03	CV			0.02
CV%			3.12	CV%			2.19
01	Bio-Rad 2	0.049	85.55	01	Bio-Rad 2	0.049	85.55
02	Bio-Rad 2	0.049	85.55	02	Bio-Rad 2	0.049	85.55
03	Bio-Rad 2	0.050	87.30	03	Bio-Rad 2	0.049	85.55
04	Bio-Rad 2	0.050	87.30	04	Bio-Rad 2	0.049	85.55
05	Bio-Rad 2	0.049	85.55	05	Bio-Rad 2	0.048	83.81
06	Bio-Rad 2	0.049	85.55	06	Bio-Rad 2	0.049	85.55
07	Bio-Rad 2	0.049	85.55	07	Bio-Rad 2	0.049	85.55
08	Bio-Rad 2	0.049	85.55	08	Bio-Rad 2	0.049	85.55
09	Bio-Rad 2	0.049	85.55	09	Bio-Rad 2	0.049	85.55
10	Bio-Rad 2	0.049	85.55	10	Bio-Rad 2	0.049	85.55
11	Bio-Rad 2	0.048	83.81	11	Bio-Rad 2	0.048	83.81
12	Bio-Rad 2	0.048	83.81	12	Bio-Rad 2	0.049	85.55
13	Bio-Rad 2	0.049	85.55	13	Bio-Rad 2	0.053	92.54
14	Bio-Rad 2	0.049	85.55	14	Bio-Rad 2	0.049	85.55
15	Bio-Rad 2	0.049	85.55	15	Bio-Rad 2	0.049	85.55
16	Bio-Rad 2	0.049	85.55	16	Bio-Rad 2	0.049	85.55
17	Bio-Rad 2	0.049	85.55	17	Bio-Rad 2	0.049	85.55
18	Bio-Rad 2	0.049	85.55	18	Bio-Rad 2	0.052	90.79
19	Bio-Rad 2	0.049	85.55	19	Bio-Rad 2	0.048	83.81
20	Bio-Rad 2	0.049	85.55	20	Bio-Rad 2	0.049	85.55
21	Bio-Rad 2	0.049	85.55	21	Bio-Rad 2	0.049	85.55
22	Bio-Rad 2	0.049	85.55	22	Bio-Rad 2	0.052	90.79
23	Bio-Rad 2	0.050	87.30	23	Bio-Rad 2	0.049	85.55
24	Bio-Rad 2	0.049	85.55	24	Bio-Rad 2	0.049	85.55
25	Bio-Rad 2	0.049	85.55	25	Bio-Rad 2	0.049	85.55
Mean			85.62	Mean			86.04
S.D.			0.79	S.D.			2.11
CV			0.01	CV			0.02
CV%			0.93	CV%			2.45

Total Protein

Within Run					Within Run			
S.No.	Test	Abs.	Conc (gm/dl)		S.No.	Test	Abs.	Conc (gm/dl)
	Blank	0.078				Blank	0.078	
	5.6	C.Abs.					C.Abs.	
	Standard	0.321	17.45			Standard	0.316	17.72
01	Bio-Rad 1	0.399	6.96		01	Bio-Rad 1	0.390	6.91
02	Bio-Rad 1	0.395	6.89		02	Bio-Rad 1	0.386	6.84
03	Bio-Rad 1	0.396	6.91		03	Bio-Rad 1	0.392	6.95
04	Bio-Rad 1	0.394	6.88		04	Bio-Rad 1	0.390	6.91
05	Bio-Rad 1	0.398	6.95		05	Bio-Rad 1	0.380	6.73
06	Bio-Rad 1	0.390	6.81		06	Bio-Rad 1	0.382	6.77
07	Bio-Rad 1	0.395	6.89		07	Bio-Rad 1	0.390	6.91
08	Bio-Rad 1	0.395	6.89		08	Bio-Rad 1	0.390	6.91
09	Bio-Rad 1	0.392	6.84		09	Bio-Rad 1	0.388	6.88
10	Bio-Rad 1	0.399	6.96		10	Bio-Rad 1	0.390	6.91
11	Bio-Rad 1	0.395	6.89		11	Bio-Rad 1	0.389	6.89
12	Bio-Rad 1	0.395	6.89		12	Bio-Rad 1	0.386	6.84
13	Bio-Rad 1	0.396	6.91		13	Bio-Rad 1	0.390	6.91
14	Bio-Rad 1	0.395	6.89		14	Bio-Rad 1	0.390	6.91
15	Bio-Rad 1	0.390	6.81		15	Bio-Rad 1	0.386	6.84
16	Bio-Rad 1	0.395	6.89		16	Bio-Rad 1	0.386	6.84
17	Bio-Rad 1	0.396	6.91		17	Bio-Rad 1	0.386	6.84
18	Bio-Rad 1	0.395	6.89		18	Bio-Rad 1	0.390	6.91
19	Bio-Rad 1	0.399	6.96		19	Bio-Rad 1	0.389	6.89
20	Bio-Rad 1	0.395	6.89		20	Bio-Rad 1	0.390	6.91
21	Bio-Rad 1	0.392	6.84		21	Bio-Rad 1	0.390	6.91
22	Bio-Rad 1	0.395	6.89		22	Bio-Rad 1	0.386	6.84
23	Bio-Rad 1	0.394	6.88		23	Bio-Rad 1	0.390	6.91
24	Bio-Rad 1	0.395	6.89		24	Bio-Rad 1	0.389	6.89
25	Bio-Rad 1	0.395	6.89		25	Bio-Rad 1	0.390	6.91
Mean			6.89		Mean			6.88
S.D.			0.04		S.D.			0.05
CV			0.01		CV			0.01
CV%			0.59		CV%			0.72
26	Bio-Rad 2	0.234	4.08		26	Bio-Rad 2	0.238	4.22
27	Bio-Rad 2	0.237	4.14		27	Bio-Rad 2	0.232	4.11
28	Bio-Rad 2	0.237	4.14		28	Bio-Rad 2	0.234	4.15
29	Bio-Rad 2	0.238	4.15		29	Bio-Rad 2	0.232	4.11
30	Bio-Rad 2	0.237	4.14		30	Bio-Rad 2	0.230	4.08
31	Bio-Rad 2	0.238	4.15		31	Bio-Rad 2	0.232	4.11
32	Bio-Rad 2	0.237	4.14		32	Bio-Rad 2	0.232	4.11
33	Bio-Rad 2	0.235	4.10		33	Bio-Rad 2	0.229	4.06
34	Bio-Rad 2	0.237	4.14		34	Bio-Rad 2	0.232	4.11
35	Bio-Rad 2	0.236	4.12		35	Bio-Rad 2	0.232	4.11
36	Bio-Rad 2	0.237	4.14		36	Bio-Rad 2	0.230	4.08
37	Bio-Rad 2	0.237	4.14		37	Bio-Rad 2	0.232	4.11
38	Bio-Rad 2	0.236	4.12		38	Bio-Rad 2	0.230	4.08
39	Bio-Rad 2	0.237	4.14		39	Bio-Rad 2	0.236	4.18
40	Bio-Rad 2	0.237	4.14		40	Bio-Rad 2	0.235	4.16
41	Bio-Rad 2	0.236	4.12		41	Bio-Rad 2	0.236	4.18
42	Bio-Rad 2	0.236	4.12		42	Bio-Rad 2	0.235	4.16
43	Bio-Rad 2	0.237	4.14		43	Bio-Rad 2	0.231	4.09
44	Bio-Rad 2	0.237	4.14		44	Bio-Rad 2	0.229	4.06
45	Bio-Rad 2	0.236	4.12		45	Bio-Rad 2	0.232	4.11
46	Bio-Rad 2	0.238	4.15		46	Bio-Rad 2	0.236	4.18
47	Bio-Rad 2	0.237	4.14		47	Bio-Rad 2	0.236	4.18
48	Bio-Rad 2	0.236	4.12		48	Bio-Rad 2	0.230	4.08
49	Bio-Rad 2	0.237	4.14		49	Bio-Rad 2	0.236	4.18
50	Bio-Rad 2	0.237	4.14		50	Bio-Rad 2	0.232	4.11
Mean			4.13		Mean			4.12
S.D.			0.02		S.D.			0.05
CV			0.00		CV			0.01
CV%			0.38		CV%			1.10

Albumin

Within Run					Within Run			
S.No.	Test	Abs.	Conc (gm/dl)		S.No.	Test	Abs.	Conc (gm/dl)
	Blank	0.035				Blank	0.035	
	3.7	C.Abs.				C.Abs.		
	Standard	0.585	6.32			Standard	0.582	6.36
01	Bio-Rad 1	0.660	4.17		01	Bio-Rad 1	0.657	4.18
02	Bio-Rad 1	0.661	4.18		02	Bio-Rad 1	0.662	4.21
03	Bio-Rad 1	0.660	4.17		03	Bio-Rad 1	0.656	4.17
04	Bio-Rad 1	0.670	4.23		04	Bio-Rad 1	0.665	4.23
05	Bio-Rad 1	0.660	4.17		05	Bio-Rad 1	0.657	4.18
06	Bio-Rad 1	0.659	4.16		06	Bio-Rad 1	0.656	4.17
07	Bio-Rad 1	0.650	4.11		07	Bio-Rad 1	0.672	4.27
08	Bio-Rad 1	0.660	4.17		08	Bio-Rad 1	0.668	4.25
09	Bio-Rad 1	0.670	4.23		09	Bio-Rad 1	0.657	4.18
10	Bio-Rad 1	0.660	4.17		10	Bio-Rad 1	0.656	4.17
11	Bio-Rad 1	0.670	4.23		11	Bio-Rad 1	0.657	4.18
12	Bio-Rad 1	0.666	4.21		12	Bio-Rad 1	0.656	4.17
13	Bio-Rad 1	0.661	4.18		13	Bio-Rad 1	0.665	4.23
14	Bio-Rad 1	0.660	4.17		14	Bio-Rad 1	0.657	4.18
15	Bio-Rad 1	0.659	4.16		15	Bio-Rad 1	0.665	4.23
16	Bio-Rad 1	0.660	4.17		16	Bio-Rad 1	0.656	4.17
17	Bio-Rad 1	0.660	4.17		17	Bio-Rad 1	0.670	4.26
18	Bio-Rad 1	0.660	4.17		18	Bio-Rad 1	0.670	4.26
19	Bio-Rad 1	0.660	4.17		19	Bio-Rad 1	0.659	4.19
20	Bio-Rad 1	0.659	4.16		20	Bio-Rad 1	0.665	4.23
21	Bio-Rad 1	0.659	4.16		21	Bio-Rad 1	0.657	4.18
22	Bio-Rad 1	0.660	4.17		22	Bio-Rad 1	0.650	4.13
23	Bio-Rad 1	0.660	4.17		23	Bio-Rad 1	0.670	4.26
24	Bio-Rad 1	0.660	4.17		24	Bio-Rad 1	0.657	4.18
25	Bio-Rad 1	0.660	4.17		25	Bio-Rad 1	0.670	4.26
Mean			4.18		Mean			4.21
S.D.			0.03		S.D.			0.04
CV			0.01		CV			0.01
CV%			0.63		CV%			0.94
26	Bio-Rad 2	0.444	2.81		26	Bio-Rad 2	0.436	2.77
27	Bio-Rad 2	0.438	2.77		27	Bio-Rad 2	0.440	2.80
28	Bio-Rad 2	0.440	2.78		28	Bio-Rad 2	0.435	2.77
29	Bio-Rad 2	0.437	2.76		29	Bio-Rad 2	0.442	2.81
30	Bio-Rad 2	0.438	2.77		30	Bio-Rad 2	0.435	2.77
31	Bio-Rad 2	0.442	2.79		31	Bio-Rad 2	0.437	2.78
32	Bio-Rad 2	0.438	2.77		32	Bio-Rad 2	0.439	2.79
33	Bio-Rad 2	0.438	2.77		33	Bio-Rad 2	0.442	2.81
34	Bio-Rad 2	0.438	2.77		34	Bio-Rad 2	0.434	2.76
35	Bio-Rad 2	0.439	2.77		35	Bio-Rad 2	0.438	2.79
36	Bio-Rad 2	0.442	2.79		36	Bio-Rad 2	0.446	2.84
37	Bio-Rad 2	0.438	2.77		37	Bio-Rad 2	0.435	2.77
38	Bio-Rad 2	0.438	2.77		38	Bio-Rad 2	0.437	2.78
39	Bio-Rad 2	0.438	2.77		39	Bio-Rad 2	0.439	2.79
40	Bio-Rad 2	0.438	2.77		40	Bio-Rad 2	0.445	2.83
41	Bio-Rad 2	0.445	2.81		41	Bio-Rad 2	0.438	2.79
42	Bio-Rad 2	0.438	2.77		42	Bio-Rad 2	0.445	2.83
43	Bio-Rad 2	0.438	2.77		43	Bio-Rad 2	0.439	2.79
44	Bio-Rad 2	0.442	2.79		44	Bio-Rad 2	0.434	2.76
45	Bio-Rad 2	0.438	2.77		45	Bio-Rad 2	0.448	2.85
46	Bio-Rad 2	0.445	2.81		46	Bio-Rad 2	0.437	2.78
47	Bio-Rad 2	0.438	2.77		47	Bio-Rad 2	0.443	2.82
48	Bio-Rad 2	0.443	2.80		48	Bio-Rad 2	0.436	2.77
49	Bio-Rad 2	0.438	2.77		49	Bio-Rad 2	0.442	2.81
50	Bio-Rad 2	0.446	2.82		50	Bio-Rad 2	0.435	2.77
Mean			2.78		Mean			2.79
S.D.			0.02		S.D.			0.03
CV			0.01		CV			0.01
CV%			0.64		CV%			0.92

Amylase

Within Run					Between Run			
S.No.	Test	Abs.	Conc (IU/L)		S.No.	Test	Abs.	Conc (IU/L)
	Factor	3178				Factor	3178	
01	Bio-Rad 1	0.021	66.74		01	Bio-Rad 1	0.021	66.74
02	Bio-Rad 1	0.021	66.74		02	Bio-Rad 1	0.022	69.92
03	Bio-Rad 1	0.021	66.74		03	Bio-Rad 1	0.021	66.74
04	Bio-Rad 1	0.021	66.74		04	Bio-Rad 1	0.021	66.74
05	Bio-Rad 1	0.021	66.74		05	Bio-Rad 1	0.020	63.56
06	Bio-Rad 1	0.021	66.74		06	Bio-Rad 1	0.022	69.92
07	Bio-Rad 1	0.021	66.74		07	Bio-Rad 1	0.021	66.74
08	Bio-Rad 1	0.021	66.74		08	Bio-Rad 1	0.021	66.74
09	Bio-Rad 1	0.021	66.74		09	Bio-Rad 1	0.022	69.92
10	Bio-Rad 1	0.021	66.74		10	Bio-Rad 1	0.021	66.74
11	Bio-Rad 1	0.021	66.74		11	Bio-Rad 1	0.022	69.92
12	Bio-Rad 1	0.021	66.74		12	Bio-Rad 1	0.021	66.74
13	Bio-Rad 1	0.020	63.56		13	Bio-Rad 1	0.021	66.74
14	Bio-Rad 1	0.021	66.74		14	Bio-Rad 1	0.022	69.92
15	Bio-Rad 1	0.021	66.74		15	Bio-Rad 1	0.021	66.74
16	Bio-Rad 1	0.021	66.74		16	Bio-Rad 1	0.021	66.74
17	Bio-Rad 1	0.021	66.74		17	Bio-Rad 1	0.023	73.09
18	Bio-Rad 1	0.020	63.56		18	Bio-Rad 1	0.021	66.74
19	Bio-Rad 1	0.021	66.74		19	Bio-Rad 1	0.021	66.74
20	Bio-Rad 1	0.021	66.74		20	Bio-Rad 1	0.021	66.74
21	Bio-Rad 1	0.021	66.74		21	Bio-Rad 1	0.021	66.74
22	Bio-Rad 1	0.021	66.74		22	Bio-Rad 1	0.021	66.74
23	Bio-Rad 1	0.021	66.74		23	Bio-Rad 1	0.021	66.74
24	Bio-Rad 1	0.021	66.74		24	Bio-Rad 1	0.020	63.56
25	Bio-Rad 1	0.021	66.74		25	Bio-Rad 1	0.021	66.74
Mean			66.48		Mean			67.37
S.D.			0.88		S.D.			2.05
CV			0.01		CV			0.03
CV%			1.32		CV%			3.04
01	Bio-Rad 2	0.136	432.21		01	Bio-Rad 2	0.138	438.56
02	Bio-Rad 2	0.136	432.21		02	Bio-Rad 2	0.136	432.21
03	Bio-Rad 2	0.135	429.03		03	Bio-Rad 2	0.138	438.56
04	Bio-Rad 2	0.136	432.21		04	Bio-Rad 2	0.136	432.21
05	Bio-Rad 2	0.137	435.39		05	Bio-Rad 2	0.136	432.21
06	Bio-Rad 2	0.137	435.39		06	Bio-Rad 2	0.140	444.92
07	Bio-Rad 2	0.136	432.21		07	Bio-Rad 2	0.137	435.39
08	Bio-Rad 2	0.138	438.56		08	Bio-Rad 2	0.136	432.21
09	Bio-Rad 2	0.136	432.21		09	Bio-Rad 2	0.136	432.21
10	Bio-Rad 2	0.136	432.21		10	Bio-Rad 2	0.132	419.50
11	Bio-Rad 2	0.138	438.56		11	Bio-Rad 2	0.136	432.21
12	Bio-Rad 2	0.136	432.21		12	Bio-Rad 2	0.137	435.39
13	Bio-Rad 2	0.139	441.74		13	Bio-Rad 2	0.136	432.21
14	Bio-Rad 2	0.136	432.21		14	Bio-Rad 2	0.139	441.74
15	Bio-Rad 2	0.134	425.85		15	Bio-Rad 2	0.136	432.21
16	Bio-Rad 2	0.135	429.03		16	Bio-Rad 2	0.136	432.21
17	Bio-Rad 2	0.136	432.21		17	Bio-Rad 2	0.136	432.21
18	Bio-Rad 2	0.136	432.21		18	Bio-Rad 2	0.138	438.56
19	Bio-Rad 2	0.138	438.56		19	Bio-Rad 2	0.136	432.21
20	Bio-Rad 2	0.136	432.21		20	Bio-Rad 2	0.136	432.21
21	Bio-Rad 2	0.139	441.74		21	Bio-Rad 2	0.139	441.74
22	Bio-Rad 2	0.136	432.21		22	Bio-Rad 2	0.137	435.39
23	Bio-Rad 2	0.138	438.56		23	Bio-Rad 2	0.136	432.21
24	Bio-Rad 2	0.138	438.56		24	Bio-Rad 2	0.136	432.21
25	Bio-Rad 2	0.136	432.21		25	Bio-Rad 2	0.140	444.92
Mean			433.99		Mean			434.62
S.D.			4.01		S.D.			5.29
CV			0.01		CV			0.01
CV%			0.92		CV%			1.22

Accelerated Stability Studies

1. Stability studies were conducted at 37°C till 28 days.
2. Stability studies were conducted using Randox and Biorad Normal and Abnormal Controls.
3. Linearity levels were validated.
4. Random serum samples were also tested. The samples tested in each run were not necessarily the same as those tested in the previous run.

Glucose

Glucose	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	
Blank	0.030	-	0.044	-	0.060	-	NOT DONE	-	0.072	-	
	C. Abs.		C. Abs.		C. Abs.		C. Abs.		C. Abs.		
Standard	0.328	-	0.294		0.293	-		-	0.315	-	
Controls											
Randox 2	0.350	106.70	0.338	114.90	0.325	110.92	NOT DONE		0.320	101.58	95.1 - 129 mg/dl
Randox 3	0.895	272.80	0.831	282.65	0.819	279.5			0.867	275.23	240 - 322 mg/dl
BR1	-	-	0.312	105.40	0.291	99.31			0.31	98.11	74 - 111 mg/dl
BR2	-	-	0.963	327.55	0.91	310.58			0.967	306.9	257 - 385 mg/dl
Linearity (mg/dl)											
25.00 mg/dl	0.083	25.30(101.2%)	0.077	26.19(104.76%)	0.079	26.96(107.84%)			0.08	25.85(101.58%)	± 10%
500.0 mg/dl	1.566	477.43(95.48%)	1.46	496.59(99.31%)	1.44	491.46(98.29%)			1.527	484.76(96.95%)	
Unknown Samples											
1	0.201	61.28	0.290	98.60	0.291	99.31			0.266	84.4	0 mg/dlPost- Prandial Upto
2	0.22	67.07	0.283	96.20	0.267	91.12			0.314	99.6	
3	0.197	60.00	0.326	110.80	0.296	101.02			0.261	82.85	
4	0.221	67.37	0.184	62.50	0.245	83.61			0.310	98.11	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

Creatinine

Creatinine	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	
Standard	0.041	-	0.039		0.037	-		-	0.035	-	
Controls											
Randox 2	0.028	1.36	0.026	1.33	0.025	1.35	NOT DONE		0.024	1.37	1.12 - 1.68 mg/dl
Randox 3	0.078	3.80	0.071	3.64	0.066	3.50			0.063	3.60	3.3 - 5.07 mg/dl
BR1	-	-	0.044	2.25	0.042	2.20			0.037	4.68	1.80 - 2.80 mg/dl
BR2	-	-	0.094	4.82	0.089	4.80			0.082	4.68	4.0 - 6.0 mg/dl
Linearity (mg/dl)											
25.00 mg/dl	0.083	25.30(101.2%)	0.077	26.19(104.76%)	0.079	26.96(107.84%)			0.08	25.85(101.58%)	± 10%
500.0 mg/dl	1.566	477.43(95.48%)	1.460	496.59(99.31%)	1.440	491.46(98.29%)			1.527	484.76(96.95%)	
Unknown Samples											
1	0.018	0.87	0.018	0.92	0.015	0.81			0.012	0.68	0.4 - 1.5 mg/dl
2	0.021	1.02	0.017	0.87	0.017	0.91			0.013	0.74	
3	0.016	0.78	0.014	0.71	0.014	0.75			0.014	0.8	
4	0.018	0.87	0.015	0.76	0.019	1.02			0.020	1.14	
5	0.017	0.82	0.017	0.87	0.018	0.97			0.013	0.74	
6	0.019	0.92	0.014	0.71	0.015	0.81			0.018	1.02	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

Urea UV

Urea UV	Results on Day-0, 2-8°C		Results on Day-5, R/C at CRT		Results on Wk-1, R/C at 2-8°C		Results on Wk-1, UNR/C at 37°C		Results on Wk-2, R/C at 2-8°C		Results on Wk-2, UNR/C at 37°C		Results on Wk-3, R/C at 2-8°C		Results on Wk-3, UNR/C at 37°C		Results on Wk-4, R/C at 2-8°C		Results on Wk-4, UNR/C at 37°C		Specifications
	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	ΔAbs.	Conc. (mg/dl)	
Initial Abs.	1.868	-	1.728	-	1.786	-	1.736	-	1.756	-	1.623	-	NOT DONE	-	NOT DONE	-	1.684	-	1.536	-	NLT 1.0 at 340 nm
Standard	0.122		0.118		0.121		0.119		0.118		0.109						0.097		0.096		
Controls																					
Randox 2	0.117	47.95	0.112	47.45	0.116	47.93	0.116	48.73	0.115	48.72	0.105	48.16					0.093	47.90	0.09	46.87	37.4 - 50.4 mg/dl
Randox 3	0.282	115.57	0.278	117.79	0.281	116.11	0.280	117.64	0.276	116.94	0.262	120.18					0.233	120.10	0.226	117.7	98.6 - 133 mg/dl
Levels (mg/dl)																					
300 mg/dl	0.672	275.40 (91.80%)	0.682	288.98 (96.32%)	0.782	323.14 (107.71%)	0.655	275.21 (91.73%)	0.662	280.50 (93.50%)	0.618	283.48 (94.49%)					0.546	281.44 (93.81%)	0.536	0.279.16 (93.05%)	± 10%
Unknown Samples																					
1	0.095	38.93	0.092	38.98	0.092	38.01	0.091	38.23	0.094	39.83	0.086	39.44					0.069	35.50	0.062	32.29	10 - 40 mg/dl
2	0.075	30.73	0.076	32.20	0.072	29.75	0.074	31.09	0.076	32.20	0.069	31.65					0.054	27.80	0.052	27.08	
3	0.087	35.65	0.090	38.13	0.086	35.53	0.088	36.97	0.084	35.59	0.078	35.77					0.074	38.10	0.070	36.45	
4	0.052	21.31	0.052	22.03	0.050	20.66	0.052	21.84	0.050	21.18	0.042	19.26					0.065	33.50	0.061	31.77	
Inference:																					
● The Performance of the above reagents was found to be satisfactory upto day-28 at 2 - 8°C and 37°C.																					

Uric Acid

Uric Acid	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Spe cifications
	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	
Blank	0.020	-	0.044	-	0.065	-	0.074	-	0.083	-	NMT 0.1 at 505 nm
	C. Abs.		C. Abs.		C. Abs.		C. Abs.		C. Abs.		
Standard	0.168	-	0.204		0.218	-	0.204	-	0.206	-	
Controls											
Randox 2	0.176	6.28	0.208	6.11	0.185	5.09	0.210	6.12	0.212	6.17	4.87 - 6.31 mg/dl
Randox 3	0.272	9.70	0.340	10.00	0.332	9.13	0.338	9.84	0.345	10.04	8.13 - 10.6 mg/dl
Linearity (mg/dl)											
3.0 mg/dl	0.089	3.17(105.95%)	0.109	3.20(106.86%)	0.113	3.11(103.66%)	0.104	3.05(101.96%)	0.102	2.97(99.0%)	± 10%
10.0 mg/dl	0.275	9.82(98.21%)	0.342	10.05(100.58%)	0.345	9.49(94.95%)	0.323	9.49(94.99%)	0.325	9.46(94.6%)	
20.0 mg/dl	0.532	18.99(94.99%)	0.642	18.88(94.41%)	0.665	18.30(91.51%)	0.649	19.08(95.44%)	0.653	19.01(95.05%)	
Unknown Samples											
1	0.157	5.60	0.198	5.82	0.205	5.64	0.188	5.48	0.192	5.59	Male : 4.0 - 7.2 mg/dl Female : 2.7 - 6.5 mg/dl
2	0.145	5.10	0.172	5.05	0.185	5.09	0.138	4.02	0.143	4.16	
3	0.197	7.00	0.242	7.11	0.255	7.01	0.162	4.72	0.169	4.92	
4	0.118	2.89	0.099	2.91	0.102	2.80	0.178	5.18	0.181	5.27	

Inference

Triglycerides

Triglycerides	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	
Blank	0.023	-	0.031	-	0.034	-	0.046	-	0.052	-	NMT 0.1 at 505 nm
	C. Abs.		C. Abs.		C. Abs.		C. Abs.		C. Abs.		
Standard	0.243		0.234		0.272		0.240		0.236		
Controls											
Randox 2	0.115	94.60	0.112	95.70	0.114	83.82	0.117	97.50	0.116	98.3	80.6 - 111.0 mg/dl
Randox 3	0.271	223.00	0.265	226.50	0.294	216.17	0.275	229.16	0.281	238.1	213 - 295 mg/dl
Linearity (mg/dl)											
100.0 mg/dl	0.124	102.05 (102.05%)	0.119	101.70 (101.70%)	0.130	95.58 (95.58%)	0.121	100.83 (100.83%)	0.119	100.84 (100.84%)	± 10%
800.0 mg/dl	0.958	788.47 (98.55%)	0.935	799.14 (99.89%)	1.076	791.17 (98.89%)	0.952	793.33 (99.16%)	0.938	794.91 (99.36%)	
Unknown Samples											
1	0.115	94.60	0.126	107.70	0.140	102.94	0.112	93.33	0.076	64.40	60 - 170 mg/dl
2	0.110	90.50	0.097	82.90	0.112	82.35	0.105	87.50	0.122	103.30	
3	0.103	84.70	0.137	117.00	0.167	122.79	0.095	79.16	0.069	58.40	
4	0.098	80.57	0.112	95.70	0.102	75.00	0.086	72.66	0.098	83.00	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

Cholesterol

Cholesterol	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	
Blank	0.021	-	0.040	-	0.050	-	0.065	-	0.080	-	NMT 0.1 at 505 nm
	C. Abs.		C. Abs.		C. Abs.		C. Abs.		C. Abs.		
Standard	0.307		0.290		0.290		0.292		0.309		
Controls											
Redox 2	0.254	165.40	0.240	165.51	0.240	165.51	0.242	165.75	0.265	171.52	137 - 177 mg/dl
Redox 3	0.426	277.50	0.393	271.03	0.416	286.89	0.419	286.98	0.444	287.37	243 - 315 mg/dl
Linearity (mg/dl)											
100.0 mg/dl	0.152	99.02 (99.02%)	0.148	102.06 (102.06%)	0.150	103.44 (103.44%)	0.152	104.10 (104.10%)	0.152	98.38 (98.38%)	± 10%
1000.0 mg/dl	1.425	928.30 (92.80%)	1.380	951.72 (95.17%)	1.360	937.93 (93.79%)	1.362	932.87 (93.28%)	1.498	969.50 (96.95%)	
Unknown Samples											
1	0.278	181.11	0.276	190.34	0.246	169.65	0.248	169.86	0.275	178.00	130 - 250 mg/dl
2	0.214	139.40	0.271	186.89	0.262	180.68	0.264	180.82	0.336	217.40	
3	0.224	145.90	0.218	150.34	0.275	189.65	0.280	191.78	0.302	195.40	
4	0.253	164.80	0.248	171.03	0.236	162.75	0.242	165.75	0.275	178.00	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

SGOT

SGOT	Results on Day-0, 2-8°C		Results on Day-5, R/C at CRT		Results on Wk-1, R/C at 2-8°C		Results on Wk-1, UNR/C at 37°C		Results on Wk-2, R/C at 2-8°C		Results on Wk-2, UNR/C at 37°C		Results on Wk-3, R/C at 2-8°C		Results on Wk-3, UNR/C at 37°C		Results on Wk-4, R/C at 2-8°C		Results on Wk-4, UNR/C at 37°C		Specifications
	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	
Initial Abs.	1.816	NA	1.468	NA	1.698	NA	1.528	NA	1.512	NA	1.323	NA	1.256	NA	1.285	NA	NOT DONE	NA	NOT DONE	NA	NLT 1.0 at 340 nm
Controls																					
Randox 2	0.025	43.65	0.024	41.9	0.025	43.64	0.021	36.66	0.023	40.16	0.020	34.92	0.022	38.412	0.023	40.158					31 - 45 IU/l
Randox 3	0.095	165.87	0.087	151.90	0.088	153.64	0.094	164.12	0.087	151.90	0.088	153.65	0.095	165.87	0.094	164.124					143 - 215 IU/l
													NLT 1.0+113.2								
Linearity (IU/l)																					
300 IU/l	0.163	284.59 (94.86%)	0.160	279.36 (93.12%)	0.158	275.86 (91.95%)	0.161	281.10 (93.70%)	0.160	279.36 (93.12%)	0.162	282.85 (94.28%)	0.161	281.10 (93.70%)	0.163	284.59 (94.86%)					± 10%
Unknown Samples																					
1	0.015	26.19	0.015	26.19	0.014	24.44	0.016	27.93	0.015	26.19	0.014	24.44	0.015	26.19	0.014	24.444					< 40 IU/l
2	0.012	20.95	0.012	20.95	0.013	22.69	0.013	22.69	0.013	22.70	0.014	24.44	0.014	24.444	0.015	26.19					
3	0.016	27.93	0.016	27.93	0.017	29.68	0.015	26.19	0.015	26.19	0.016	27.94	0.017	29.682	0.016	27.936					
4	0.019	33.17	0.019	33.17	0.020	34.92	0.019	33.17	0.018	31.43	0.019	33.17	0.019	33.174	0.018	31.428					
Inference:																					
● The Performance of the above reagents was found to be satisfactory.																					

SGPT

SGPT	Results on Day-0, 2-8°C		Results on Day-4, R/C at CRT		Results on Wk-1, R/C at 2-8°C		Results on Wk-1, UNR/C at 37°C		Results on Wk-2, R/C at 2-8°C		Results on Wk-2, UNR/C at 37°C		Results on Wk-3, R/C at 2-8°C		Results on Wk-3, UNR/C at 37°C		Results on Wk-4, R/C at 2-8°C		Results on Wk-4, UNR/C at 37°C		Specifications
	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	
Initial Abs.	1.910	NA	1.752	NA	1.850	NA	1.694	NA	1.756	NA	1.622	NA	1.730	NA	1.529	NA	NOT DONE	NA	NOT DONE	NA	NLT 1.0 at 340 nm
Controls																					
Randox 2	0.021	36.66	0.019	33.17	0.020	34.92	0.021	36.66	0.020	34.92	0.02	33.17	0.020	34.92	0.019	33.174					29 - 43 IU/l
Randox 3	0.076	132.69	0.072	125.71	0.075	130.95	0.079	137.93	0.076	132.70	0.075	130.95	0.072	125.71	0.070	122.22					98 - 148 IU/l
Linearity (IU/l)																					
300 IU/l	0.165	288.09 (96.03%)	0.161	281.10 (93.70%)	0.163	284.59 (94.86%)	0.162	282.85 (94.28%)	0.161	281.10 (93.70%)	0.162	282.85 (94.28%)	0.160	279.36 (93.31%)	0.159	277.61 (92.53%)					± 10%
Unknown Samples																					
1	0.016	27.93	0.017	29.68	0.016	27.93	0.016	26.33	0.017	29.68	0.018	31.43	0.016	26.33	0.018	31.00					< 40 IU/l
2	0.019	33.17	0.019	33.17	0.018	31.42	0.019	33.17	0.020	34.92	0.019	33.17	0.020	34.92	0.022	38.00					
3	0.015	26.19	0.016	26.93	0.016	27.93	0.017	29.68	0.016	27.94	0.016	27.94	0.018	31.42	0.017	29.00					
4	0.021	36.66	0.021	36.66	0.020	34.92	0.020	34.92	0.021	36.67	0.020	34.92	0.019	33.17	0.022	38.00					
Inference:																					
● The Performance of the above reagents was found to be satisfactory.																					

Total Protein

Total Protein	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	
Blank	0.071	-	0.079	-	0.082	-	NOT DONE	-	0.088	-	
	C. Abs.		C. Abs.		C. Abs.		C. Abs.		C. Abs.		
Standard (5.61 gm/dl)	0.319	-	0.307		0.306	-		-	0.304	-	
Controls											
Randox 2	0.325	5.90	0.323	5.90	0.322	5.90	NOT DONE		0.318	5.86	4.75 - 7.11 gm/dl
Randox 3	0.269	4.88	0.267	4.87	0.266	4.87			0.262	4.83	3.74 - 5.62 gm/dl
BR1	0.376	6.82			0.373	6.83			0.369	6.80	6.0 - 7.4 gm/dl
BR2	0.224	4.06			0.222	4.06			0.218	4.02	3.56 - 4.53 gm/dl
Linearity (gm/dl)											
2.5 gm/dl	0.152	2.67(106.92%)	0.142	2.59(103.79%)	0.140	2.56(102.66%)			0.138	2.54(101.86%)	± 10%
10.00 gm/dl	0.548	9.94(99.49%)	0.546	9.97(99.75%)	0.545	9.98(99.89%)			0.536	9.88(98.89%)	
Unknown Samples											
01	0.392	7.10	0.435	7.94	0.426	7.80			0.355	6.54	6.0 - 8.5 gm/dl
02	0.412	7.47	0.364	6.65	0.352	6.47			0.413	7.61	
03	0.428	7.77	0.367	6.70	0.383	7.02			0.402	7.41	
04	0.439	7.97	0.384	7.00	0.424	7.77			0.376	6.93	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

Albumin

Albumin	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	Abs.	Conc. (mg/dl)	
Blank	0.030	-	0.032	-	0.035	-	NOT DONE	-	0.038	-	
	C. Abs.		C. Abs.		C. Abs.		C. Abs.		C. Abs.		
Standard (3.93 gm/dl)	0.547	-	0.544		0.543	-		-	0.541	-	
Controls											
Randox 2	0.593	4.25	0.590	4.25	0.589	4.25	NOT DONE		0.585	4.24	3.60 - 4.88 gm/dl
Randox 3	0.446	3.20	0.444	3.20	0.443	3.20			0.438	3.17	2.55 - 3.45 gm/dl
BR1	0.604	4.33	0.601	4.33	0.600	4.33			0.596	4.32	3.54 - 4.46 gm/dl
BR2	0.398	2.82	0.395	2.85	0.394	2.80			0.392	2.84	2.1 - 3.24 gm/dl
Linearity (gm/dl)											
3.0 gm/dl	0.432	3.10(103.45%)	0.428	3.09(103.06%)	0.426	3.08(102.77%)			0.420	3.05(101.70%)	± 10%
6.00 gm/dl	0.823	5.90(98.48%)	0.820	5.90(98.67%)	0.821	5.93(98.93%)			0.820	5.95(99.22%)	
Unknown Samples											
01	0.611	4.38	0.619	4.46	0.618	4.46			0.602	4.37	3.2 - 5.5 gm/dl
02	0.688	4.93	0.697	5.03	0.694	5.01			0.429	4.56	
03	0.666	4.78	0.611	4.41	0.605	4.37			0.693	5.03	
04	0.710	5.09	0.604	4.36	0.681	4.92			0.594	4.31	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

Amylase

Amylase	Results on Day-0, 2-8°C		Results on Wk-1, at 37°C		Results on Wk-2, at 37°C		Results on Wk-3, at 37°C		Results on Wk-4, at 37°C		Specifications
	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	ΔAbs./min	Conc. (IU/l)	
Initial Abs.	0.023	-	0.025	-	0.042	-	0.056	-	0.062	-	
Controls											
Randox 2	0.023	73.09	0.025	79.45	0.022	69.92	0.023	73.09	0.022	69.92	NA
Randox 3	0.086	273.30	0.100	317.80	0.086	273.31	0.087	276.49	0.086	273.31	NA
BR1	0.024	76.27	0.021	66.74	0.024	76.27	0.025	79.45	0.024	76.27	59.1 - 88.7 IU/l
BR2	0.135	429.03	0.130	413.14	0.131	416.32	0.136	432.21	0.134	425.85	353 - 531 IU/l
Linearity (IU/l)											
2000.0 IU/l	0.640	2033.92(101.69%)	0.632	2008.49(100.42%)	0.648	2059.34(102.96%)	0.642	2040.27(102.01%)	0.638	2027.56(101.37%)	± 10%
Unknown Samples											
01	0.022	76.27	0.021	66.74	0.021	66.74	0.022	69.92	0.022	69.92	25 - 140 IU/l
02	0.019	60.38	0.017	54.03	0.018	57.20	0.019	60.38	0.018	57.20	
03	0.018	57.20	0.019	60.38	0.018	57.20	0.018	57.20	0.018	57.20	
04	0.021	66.74	0.019	60.38	0.019	60.38	0.020	63.56	0.020	63.56	
Inference:											
● The Performance of the above reagents was found to be satisfactory upto day-28 at 37°C.											

----- End of Report -----