

**Registered Office:**

**BioSystems Diagnostics Pvt. Ltd.,**  
A4, SIPCOT Industrial Park, Irungattukottai,  
Thandalam Village, Sriperumbudur - 602105.  
Ph: +91 - 44 - 3034 1911 / 12 /13  
E-mail: customersupport@biosystems.in  
Website: www.biosystems.in  
CIN - U29297TN2003PTC051492



***BA200 – Fully Auto Biochemistry Analyser***

***Installation Qualification Certificate***

***For***


***Pace Hospitals***

***BioSystems Diagnostics Pvt. Ltd***

**Corporate Office:**

**BioSystems S.A.** Costa Brava 30, 08030 Barcelona (Spain)  
Tel +34-93 311 00 00, Fax+34-93 346 77 99  
<http://www.biosystems.es>

**ISO 13485**

A large, stylized logo for ISO 13485 certification is located in the bottom right corner. It consists of a grey circle with a white circle inside it, and a white line that curves around the bottom and right sides of the circles.

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Website: www.biosystems.in  
CIN - U29297TN2003PTC051492



## CERTIFICATE OF INSTALLATION

Instrument Name : BA200 Fully Auto Biochemistry Analyzer

Serial Number : 832000665

Customer : Pace Hospitals

The undersigned performer certifies that the installation Qualification Protocol has been successfully completed for the instrument stated above.

**Engineer**

Signature :  
Name : Mr. Appanna Dora  
Designation : Service Engineer  
Company : BioSystems Diagnostics Pvt. Ltd.,

**Customer**

Signature :  
Name : Mr. Anjaiah  
Designation : Quality Manager  
Company : Pace Hospitals

**Corporate Office:**

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## **INSTALLATION REPORT**

Customer Name : **Pace Hospitals**

Department : Bio-chemistry

Contact Person : Mr. Anjaiah

Instrument Model : BA200

Serial Number : 832000665

Date of Installation : 25-07-2020

The System was installed along with the necessary accessories. All basic requirements and adjustments were checked and are found to be satisfactory Preliminary customer training was provided and standardization of all parameters was done. The Instrument is found to be working satisfactorily.

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**INSTRUMENT SETUP :**

- Instrument and computer installed
- Printer Installed
- User software 5.2.3 installed
- All necessary cable connections given

**OPERATION INSPECTION :**

- No air bubbles found in the Tubing
- Temperature of the Needles/Reaction & Rotor Chamber are within range
- No unusual noises produced in the system
- Warm up procedure within time limit
- Internal Dosing of all Needle's were fine
- External Dosing of all Wash Station is perfect
- Conditioning of Machine with Air/Wash solution/Distilled water done

For Biosystems Diagnostics Pvt. Ltd

  
  
Mr. Appanna Dora  
Service Engineer

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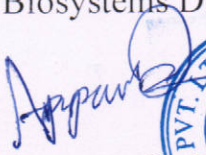
## INSTALLATION QUALIFICATION

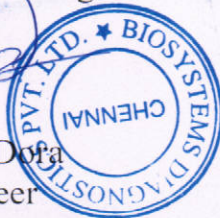
Customer Name : Pace Hospitals  
Address : Pace Hospitals  
23 Huda Techno Enclave Patrika Nagar,  
Madhapur, Hyderabad -500081  
Instrument Model : BA200  
Serial No. : 832000665

### *Operational requirement for the Instrument:*

Requirement	Acceptable Range	Observed Range
Input Voltage	220 $\pm$ 10 V	231 V
Line Frequency	50 or 60 Hz	50 Hz
Ambient Temperature	18 - 30 deg. C	25 deg. C
Distill Water	Type II NCCLS	Available

For Biosystems Diagnostics Pvt. Ltd

  
Mr. Appanna Dora  
Service Engineer



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***BA200 - Fully Auto Biochemistry Analyzer***

***Operational Qualification***


***For***

***Pace Hospitals***

***BioSystems Diagnostics Pvt. Ltd***

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**ISO 13485**

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## *BA200 – Fully Auto Biochemistry Analyzer*

### OPERATIONAL QUALIFICATION

1. System Performance check procedures.
2. System operational certificate.

**Corporate Office:**

**BioSystems S.A.** Costa Brava 30, 08030 Barcelona (Spain)  
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**ISO 13485**

**Registered Office:**


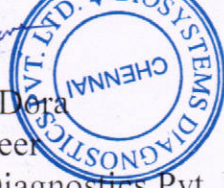
**BioSystems Diagnostics Pvt. Ltd.,**  
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E-mail: customersupport@biosystems.in  
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CIN - U29297TN2003PTC051492



## CERTIFICATE OF OPERATION

Instrument Name : BA200 Fully Auto Biochemistry Analyzer  
Serial Number : 832000665  
Customer : Pace Hospitals

The undersigned performer certifies that the Operational Qualification Protocol has been successfully completed for the instrument stated above.

Engineer :   
Signature :   
Name : Mr. Appanna Dora  
Designation : Service Engineer  
Company : BioSystems Diagnostics Pvt. Ltd

Customer :  
Signature :  
Name : Mr. Anjaiah  
Designation : Quality Manager  
Company : Pace Hospitals

**Corporate Office:**

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## SYSTEM PERFORMANCE CHECK PROCEDURE

<b>SYTEM CHECK</b>	<b>PERFORMANCE</b>
LED Photometric Check	Done
Warm Up	Done
Mechanical Adjustments	Done
Temperature Check	Done
Internal/External Dosing Check	Done

Customer Signature:

**Corporate Office:**

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## OPERATIONAL QUALIFICATION

### System Certification:

Study data has determined that the System described in this document either meets all criteria outlined in this Operational Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any have been addressed. The system is ready for specified usage.

Protocol Performed By:

BioSystems Diagnostics Pvt Ltd

Name : Mr. Appanna Dora

Title : Service Engineer

Company: Biosystems Diagnostics Pvt Ltd

Customer Authorization:

Pace Hospitals

Name: Mr. Anjaiah

Title : Quality Manager

ENGINEER SIGNATURE

CUSTOMER SIGNATURE

DATE:

DATE:



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***BA200 - Fully Auto Bio Chemistry Analyzer***

***Performance Qualification***

***For***

***Pace Hospitals***

***BioSystems Diagnostics Pvt. Ltd***

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## BA200 Fully Auto Biochemistry Analyzer

### PERFORMANCE QUALIFICATION:

The following parameters were checked and found to be within acceptable limits.

Parameter	Check
Vertical Motors – Sample and reagent in Home	Done
Polar Motors – Sample and reagent in Home	Done
Reaction Rotor in home	Done
Sample and Reagent rotor in Home	Done
Ceramic Dispensing pump – Sample and reagent in Home	Done
Optics Initialization: Ok	Done
Peltier cells and drivers test	Done
Rotor Peltier and Sample Reagent Rotor peltier driver test: Ok	Done
Temperature system initialized	Done
LED test: ok	Done
Hardware completely initialized	Done

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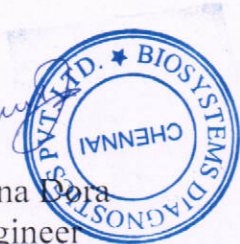


## CERTIFICATE OF PERFORMANCE

Instrument Name : BA200 Fully Auto Biochemistry Analyzer  
Serial Number : 832000665  
Customer : Pace Hospitals

The undersigned performer certifies that the Operational Qualification Protocol has been successfully completed for the instrument stated above.

Engineer  
Signature :   
Name : Mr. Appanna Dora  
Designation : Service Engineer  
Company : BioSystems Diagnostics Pvt Ltd.,



Customer  
Signature :  
Name : Mr. Anjaiah  
Designation : Quality Manager  
Company : Pace Hospitals

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Website: www.biosystems.in  
CIN - U29297TN2003PTC051492



Date: 24/08/2021

## **CALIBRATION CERTIFICATE OF BA200**

**CUSTOMER NAME – Pace Hospitals,Hyderabad**

Serial Number = 832000665

User Software = 5.3.1

Initialization Motor

Vertical Motors – Sample and reagent in Home

Polar Motors – Sample and reagent in Home

Reaction Rotor in home

Sample and Reagent rotor in Home

Ceramic Dispensing pump – Sample and reagentin Home

Optics Initialization: Ok

Peltier cells and drivers test

Rotor Peltier and Sample Reagent Rotor peltier driver test: Ok

Temperature system initialized

LED test: ok

Hardware completely initialized

**Corporate Office:**  
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Paremeters	Current value	Minimum	Maximum
Reading reference Position - Well 1	7892	7860	7905
Thermal adjustment of reaction rotor	37	37	39
Thermal adjustment of Wash station	46.4	42	50
Thermal adjustment of Sample & Reagent Probe	38.7	36	39
Photometric Dark Current Adjustment	3845	3300	4500
Main Photo Diode Counts 340NM	908093	600000	950000
Main Photo Diode Counts 405NM	899468	850000	950000
Main Photo Diode Counts 505NM	902320	850000	950000
Main Photo Diode Counts 535NM	896885	850000	950000
Main Photo Diode Counts 560NM	904533	420000	950000
Main Photo Diode Counts 600NM	902337	750000	950000
Main Photo Diode Counts 635NM	901197	850000	950000
Main Photo Diode Counts 670NM	897266	450000	950000

Next calibration due on: 23/08/2022

**For BIOSYSTEMS DIAGNOSTICS PVT. LTD.**

*A. Prayadhasini*

**Authorised Signatory**

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
ALBUMIN	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	4.21	g/dL	0.315		3.58-4.84

n	Date	Result	Unit	ABS Err	REL error %	Alarms
636	11/1/2021 1:52:09 PM	4.06	g/dL	-0.15	-3.45	
638	11/2/2021 2:39:24 PM	4.08	g/dL	-0.13	-2.98	
640	11/3/2021 4:09:44 PM	3.88	g/dL	-0.33	-7.82	
642	11/4/2021 5:21:23 PM	3.74	g/dL	-0.47	-11.20	
644	11/5/2021 4:40:50 PM	3.88	g/dL	-0.33	-7.93	
647	11/6/2021 5:06:08 PM	4.13	g/dL	-0.08	-2.01	
649	11/7/2021 8:07:30 PM	4.25	g/dL	0.04	0.93	
651	11/8/2021 5:52:07 PM	4.15	g/dL	-0.06	-1.31	
653	11/9/2021 4:35:39 PM	4.36	g/dL	0.15	3.61	
654	11/10/2021 8:03:14 AM	4.52	g/dL	0.31	7.38	
656	11/11/2021 5:21:01 PM	3.82	g/dL	-0.39	-9.24	
658	11/12/2021 8:59:30 PM	4.01	g/dL	-0.20	-4.72	
660	11/13/2021 2:53:31 PM	3.67	g/dL	-0.54	-12.72	
662	11/14/2021 4:41:17 PM	3.71	g/dL	-0.50	-11.79	
664	11/15/2021 6:31:28 PM	3.76	g/dL	-0.45	-10.63	
666	11/16/2021 8:44:22 PM	3.84	g/dL	-0.37	-8.80	
668	11/17/2021 5:27:39 PM	3.83	g/dL	-0.38	-8.94	
670	11/18/2021 5:39:42 PM	3.85	g/dL	-0.36	-8.44	
672	11/19/2021 6:40:47 PM	3.76	g/dL	-0.45	-10.70	
674	11/20/2021 6:48:21 PM	3.89	g/dL	-0.32	-7.56	
677	11/22/2021 6:23:42 PM	3.90	g/dL	-0.31	-7.46	
679	11/23/2021 6:55:12 PM	3.84	g/dL	-0.37	-8.89	
680	11/24/2021 7:35:09 AM	4.00	g/dL	-0.21	-4.92	
681	11/25/2021 7:57:54 AM	3.93	g/dL	-0.28	-6.75	
683	11/26/2021 5:23:16 PM	3.80	g/dL	-0.41	-9.85	
688	11/29/2021 8:31:51 PM	3.96	g/dL	-0.25	-5.88	
690	11/30/2021 11:58:17 AM	3.69	g/dL	-0.52	-12.43	
691	11/30/2021 7:12:14 PM	3.61	g/dL	-0.60	-14.25	



## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
ALBUMIN	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	2.97	g/dL	0.225		2.52-3.42

n	Date	Result	Unit	ABS Err	REL error %	Alarms
635	11/1/2021 7:43:52 AM	3.29	g/dL	0.32	10.85	
637	11/2/2021 8:18:34 AM	2.92	g/dL	-0.05	-1.70	
639	11/3/2021 7:43:49 AM	2.79	g/dL	-0.18	-6.07	
641	11/4/2021 7:50:39 AM	2.91	g/dL	-0.06	-2.12	
643	11/5/2021 7:10:23 AM	2.78	g/dL	-0.19	-6.28	
645	11/6/2021 7:02:16 AM	2.84	g/dL	-0.13	-4.32	
646	11/6/2021 1:17:36 PM	2.93	g/dL	-0.04	-1.47	
648	11/7/2021 6:58:41 AM	3.12	g/dL	0.15	5.17	
650	11/8/2021 7:04:41 AM	3.17	g/dL	0.20	6.89	
652	11/9/2021 6:51:37 AM	3.24	g/dL	0.27	9.21	
655	11/11/2021 6:50:28 AM	3.20	g/dL	0.23	7.89	
657	11/12/2021 7:08:04 AM	2.83	g/dL	-0.14	-4.67	
659	11/13/2021 7:36:08 AM	2.85	g/dL	-0.12	-3.88	
661	11/14/2021 5:43:51 AM	2.62	g/dL	-0.35	-11.88	
663	11/15/2021 7:15:00 AM	2.63	g/dL	-0.34	-11.37	
665	11/16/2021 8:19:55 AM	2.68	g/dL	-0.29	-9.63	
667	11/17/2021 7:48:43 AM	2.64	g/dL	-0.33	-11.27	
669	11/18/2021 7:35:47 AM	2.76	g/dL	-0.21	-7.06	
671	11/19/2021 8:10:19 AM	2.65	g/dL	-0.32	-10.86	
673	11/20/2021 7:04:06 AM	2.73	g/dL	-0.24	-7.95	
675	11/21/2021 7:56:04 AM	2.70	g/dL	-0.27	-9.02	
676	11/22/2021 7:06:33 AM	2.74	g/dL	-0.23	-7.71	
678	11/23/2021 7:50:56 AM	2.90	g/dL	-0.07	-2.44	
682	11/26/2021 6:25:34 AM	3.04	g/dL	0.07	2.35	
684	11/27/2021 7:08:39 AM	2.96	g/dL	-0.01	-0.28	
685	11/28/2021 6:42:11 AM	3.04	g/dL	0.07	2.44	
686	11/28/2021 11:48:41 AM	3.09	g/dL	0.12	3.99	
687	11/29/2021 7:06:00 AM	3.08	g/dL	0.11	3.82	

689 11/30/2021 6:42:52 3.09  
AM

g/dL

0.12

3.96

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
ALP-AMP	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	323	U/L	24.5		274-372

n	Date	Result	Unit	ABS Err	REL error %	Alarms
641	11/1/2021 7:48:40 AM	334	U/L	11	3.32	
643	11/2/2021 8:23:40 AM	331	U/L	8	2.38	
645	11/3/2021 7:48:55 AM	326	U/L	3	1.01	
647	11/4/2021 7:55:45 AM	330	U/L	7	2.29	
649	11/5/2021 7:15:29 AM	330	U/L	7	2.30	
651	11/6/2021 7:07:22 AM	327	U/L	4	1.38	
653	11/7/2021 7:03:47 AM	344	U/L	21	6.55	
655	11/8/2021 7:09:11 AM	335	U/L	12	3.60	
657	11/9/2021 6:56:25 AM	317	U/L	-6	-1.83	
660	11/11/2021 6:55:16 AM	307	U/L	-16	-4.85	
662	11/12/2021 7:12:16 AM	320	U/L	-3	-1.06	
664	11/13/2021 7:40:56 AM	342	U/L	19	5.79	
666	11/14/2021 5:48:57 AM	333	U/L	10	3.09	
668	11/15/2021 7:20:24 AM	324	U/L	1	0.33	
670	11/16/2021 8:24:43 AM	331	U/L	8	2.55	
672	11/17/2021 7:54:07 AM	325	U/L	2	0.61	
674	11/18/2021 7:41:11 AM	324	U/L	1	0.33	
676	11/19/2021 8:15:44 AM	299	U/L	-24	-7.47	
678	11/20/2021 7:09:30 AM	312	U/L	-11	-3.37	
680	11/21/2021 8:01:28 AM	294	U/L	-29	-9.01	
681	11/22/2021 7:11:56 AM	288	U/L	-35	-10.94	
682	11/22/2021 11:56:41 AM	310	U/L	-13	-3.87	
684	11/23/2021 7:56:20 AM	331	U/L	8	2.58	
688	11/26/2021 6:30:21 AM	341	U/L	18	5.45	
690	11/27/2021 7:13:27 AM	340	U/L	17	5.18	
691	11/28/2021 6:47:35 AM	343	U/L	20	6.20	
692	11/28/2021 11:52:53 AM	349	U/L	26	8.06	
693	11/29/2021 7:11:24 AM	335	U/L	12	3.59	

695	11/30/2021 6:48:16 AM	342	U/L	19	5.93
696	11/30/2021 9:49:32 AM	343	U/L	20	6.30

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
ALP-AMP	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	176	U/L	13.0		150-202

n	Date	Result	Unit	ABS Err	REL error %	Alarms
642	11/1/2021 1:58:27 PM	166	U/L	-10	-5.82	
644	11/2/2021 2:46:00 PM	165	U/L	-11	-6.10	
646	11/3/2021 4:16:02 PM	171	U/L	-5	-2.86	
648	11/4/2021 5:27:41 PM	162	U/L	-14	-7.92	
650	11/5/2021 4:47:08 PM	170	U/L	-6	-3.57	
652	11/6/2021 5:12:26 PM	172	U/L	-4	-2.00	
654	11/7/2021 8:13:48 PM	174	U/L	-2	-1.30	
656	11/8/2021 5:59:02 PM	166	U/L	-10	-5.95	
658	11/9/2021 4:41:57 PM	167	U/L	-9	-5.17	
659	11/10/2021 8:08:02 AM	170	U/L	-6	-3.23	
661	11/11/2021 5:27:19 PM	177	U/L	1	0.65	
663	11/12/2021 9:06:06 PM	175	U/L	-1	-0.41	
665	11/13/2021 2:59:49 PM	170	U/L	-6	-3.58	
667	11/14/2021 4:47:17 PM	177	U/L	1	0.73	
669	11/15/2021 6:37:46 PM	167	U/L	-9	-5.23	
671	11/16/2021 8:50:40 PM	171	U/L	-5	-2.65	
673	11/17/2021 5:33:57 PM	164	U/L	-12	-6.57	
675	11/18/2021 5:46:00 PM	159	U/L	-17	-9.56	
677	11/19/2021 6:47:05 PM	162	U/L	-14	-8.19	
679	11/20/2021 6:54:39 PM	158	U/L	-18	-10.50	
683	11/22/2021 6:28:48 PM	163	U/L	-13	-7.57	
685	11/23/2021 7:00:00 PM	162	U/L	-14	-8.15	
686	11/24/2021 7:40:33 AM	164	U/L	-12	-6.78	
687	11/25/2021 8:03:18 AM	163	U/L	-13	-7.54	
689	11/26/2021 5:28:22 PM	163	U/L	-13	-7.27	
694	11/29/2021 8:38:27 PM	157	U/L	-19	-10.74	
697	11/30/2021 12:03:23 PM	151	U/L	-25	-14.05	
698	11/30/2021 7:18:32 PM	150	U/L	-26	-14.67	
699	11/30/2021 7:34:08 PM	155	U/L	-21	-11.67	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
CALCIUM ARSENAZO	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	12.40	mg/dL	0.500		11.40-13.40

n	Date	Result	Unit	ABS Err	REL error %	Alarms
563	11/1/2021 7:47:46 AM	12.88	mg/dL	0.48	3.87	
564	11/1/2021 10:41:52 AM	12.04	mg/dL	-0.36	-2.94	
565	11/2/2021 8:22:28 AM	12.65	mg/dL	0.25	2.05	
566	11/3/2021 7:47:43 AM	11.96	mg/dL	-0.44	-3.55	
567	11/4/2021 7:54:33 AM	12.46	mg/dL	0.06	0.47	
568	11/5/2021 7:14:17 AM	12.34	mg/dL	-0.06	-0.52	
569	11/6/2021 7:06:10 AM	12.27	mg/dL	-0.13	-1.05	
570	11/6/2021 9:42:18 AM	12.39	mg/dL	-0.01	-0.08	
571	11/6/2021 10:29:14 AM	12.15	mg/dL	-0.25	-2.04	
572	11/7/2021 7:02:35 AM	13.01	mg/dL	0.61	4.96	
573	11/8/2021 7:08:35 AM	12.55	mg/dL	0.15	1.23	
574	11/9/2021 6:55:31 AM	13.14	mg/dL	0.74	6.00	
576	11/11/2021 6:54:22 AM	11.93	mg/dL	-0.47	-3.77	
577	11/12/2021 7:11:58 AM	12.68	mg/dL	0.28	2.28	
578	11/13/2021 7:40:02 AM	13.34	mg/dL	0.94	7.58	
579	11/14/2021 5:47:45 AM	12.26	mg/dL	-0.14	-1.17	
580	11/15/2021 7:18:54 AM	12.61	mg/dL	0.21	1.69	
581	11/16/2021 8:23:49 AM	13.23	mg/dL	0.83	6.68	
582	11/17/2021 7:52:37 AM	12.31	mg/dL	-0.09	-0.74	
583	11/18/2021 7:39:41 AM	12.99	mg/dL	0.59	4.72	
584	11/19/2021 8:14:14 AM	12.58	mg/dL	0.18	1.45	
585	11/20/2021 7:08:00 AM	12.61	mg/dL	0.21	1.66	
586	11/21/2021 7:59:58 AM	12.31	mg/dL	-0.09	-0.77	
587	11/22/2021 7:10:27 AM	13.04	mg/dL	0.64	5.16	
588	11/23/2021 7:54:50 AM	12.74	mg/dL	0.34	2.75	
592	11/26/2021 6:29:27 AM	12.44	mg/dL	0.04	0.32	
593	11/27/2021 7:12:33 AM	12.86	mg/dL	0.46	3.70	
594	11/28/2021 6:46:05 AM	12.33	mg/dL	-0.07	-0.56	

595	11/28/2021 11:52:35 AM	12.72	mg/dL	0.32	2.60
596	11/29/2021 7:09:54 AM	11.66	mg/dL	-0.74	-5.95
597	11/30/2021 6:46:46 AM	12.11	mg/dL	-0.29	-2.34
598	11/30/2021 9:45:02 AM	12.18	mg/dL	-0.22	-1.77

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	8.70	mg/dL	0.440		7.82-9.58

n	Date	Result	Unit	ABS Err	REL error %	Alarms
575	11/10/2021 8:07:08 AM	9.08	mg/dL	0.38	4.32	
589	11/24/2021 7:39:03 AM	8.75	mg/dL	0.05	0.57	
590	11/24/2021 12:14:15 PM	9.01	mg/dL	0.31	3.56	
591	11/25/2021 8:01:48 AM	9.19	mg/dL	0.49	5.63	
599	11/30/2021 12:02:11 PM	8.11	mg/dL	-0.59	-6.78	
600	11/30/2021 7:16:08 PM	8.59	mg/dL	-0.11	-1.26	
601	11/30/2021 7:35:38 PM	8.06	mg/dL	-0.64	-7.35	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
CHOLESTEROL	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	281	mg/dL	18.5		244-318

n	Date	Result	Unit	ABS Err	REL error %	Alarms
483	11/1/2021 7:47:10 AM	258	mg/dL	-23	-8.21	
484	11/2/2021 8:21:34 AM	267	mg/dL	-14	-5.14	
485	11/3/2021 7:46:49 AM	249	mg/dL	-32	-11.29	
486	11/4/2021 7:53:39 AM	260	mg/dL	-21	-7.58	
487	11/5/2021 7:13:23 AM	272	mg/dL	-9	-3.18	
488	11/6/2021 7:05:16 AM	255	mg/dL	-26	-9.35	
489	11/7/2021 7:01:59 AM	274	mg/dL	-7	-2.45	
490	11/8/2021 7:07:59 AM	247	mg/dL	-34	-12.10	
491	11/9/2021 6:54:55 AM	274	mg/dL	-7	-2.58	
493	11/11/2021 6:53:46 AM	269	mg/dL	-12	-4.20	
494	11/12/2021 7:11:22 AM	268	mg/dL	-13	-4.52	
495	11/13/2021 7:39:26 AM	275	mg/dL	-6	-2.22	
496	11/14/2021 5:46:51 AM	270	mg/dL	-11	-3.88	
497	11/15/2021 7:18:00 AM	263	mg/dL	-18	-6.23	
498	11/16/2021 8:22:55 AM	280	mg/dL	-1	-0.26	
499	11/17/2021 7:51:43 AM	280	mg/dL	-1	-0.48	
500	11/18/2021 7:38:47 AM	288	mg/dL	7	2.36	
501	11/19/2021 8:13:19 AM	274	mg/dL	-7	-2.65	
502	11/20/2021 7:07:06 AM	280	mg/dL	-1	-0.47	
503	11/21/2021 7:59:04 AM	285	mg/dL	4	1.41	
504	11/22/2021 7:09:32 AM	291	mg/dL	10	3.54	
506	11/23/2021 7:53:56 AM	297	mg/dL	16	5.64	
510	11/26/2021 6:28:34 AM	293	mg/dL	12	4.22	
512	11/27/2021 7:11:39 AM	292	mg/dL	11	3.78	
513	11/28/2021 6:45:11 AM	277	mg/dL	-4	-1.42	
514	11/28/2021 11:51:41 AM	296	mg/dL	15	5.48	
515	11/29/2021 7:09:00 AM	278	mg/dL	-3	-0.97	
516	11/30/2021 6:45:52 AM	284	mg/dL	3	0.97	



Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	155	mg/dL	10.0		135-175

n	Date	Result	Unit	ABS Err	REL error %	Alarms
492	11/10/2021 8:06:32 AM	162	mg/dL	7	4.78	
505	11/22/2021 6:27:00 PM	166	mg/dL	11	7.28	
507	11/23/2021 6:58:30 PM	150	mg/dL	-5	-3.50	
508	11/24/2021 7:38:09 AM	155	mg/dL	0	-0.11	
509	11/25/2021 8:00:54 AM	153	mg/dL	-2	-1.24	
511	11/26/2021 5:26:34 PM	153	mg/dL	-2	-1.12	
517	11/30/2021 12:01:17 PM	146	mg/dL	-9	-5.88	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
CREATININE	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	3.89	mg/dL	0.390		3.11-4.67

n	Date	Result	Unit	ABS Err	REL error %	Alarms
680	11/1/2021 7:47:29 AM	3.36	mg/dL	-0.53	-13.66	
682	11/2/2021 8:21:52 AM	4.08	mg/dL	0.19	4.96	
684	11/3/2021 7:47:07 AM	4.08	mg/dL	0.19	4.98	
686	11/4/2021 7:53:57 AM	3.95	mg/dL	0.06	1.46	
688	11/5/2021 7:13:41 AM	4.09	mg/dL	0.20	5.17	
690	11/6/2021 7:05:34 AM	3.84	mg/dL	-0.05	-1.27	
691	11/6/2021 10:30:44 AM	4.32	mg/dL	0.43	11.17	
693	11/7/2021 7:01:59 AM	3.86	mg/dL	-0.03	-0.86	
696	11/8/2021 7:07:59 AM	4.18	mg/dL	0.29	7.33	
698	11/9/2021 6:55:13 AM	3.67	mg/dL	-0.22	-5.75	
702	11/11/2021 6:54:04 AM	3.31	mg/dL	-0.58	-14.83	
704	11/12/2021 7:11:23 AM	4.36	mg/dL	0.47	11.97	
706	11/13/2021 7:39:44 AM	4.04	mg/dL	0.15	3.80	
709	11/14/2021 5:47:09 AM	4.14	mg/dL	0.25	6.48	
711	11/15/2021 7:18:36 AM	3.98	mg/dL	0.09	2.28	
713	11/16/2021 8:23:31 AM	3.89	mg/dL	0.00	0.05	
715	11/17/2021 7:52:19 AM	3.84	mg/dL	-0.05	-1.26	
717	11/18/2021 7:39:23 AM	3.89	mg/dL	0.00	0.03	
720	11/19/2021 8:13:56 AM	3.82	mg/dL	-0.07	-1.90	
722	11/20/2021 7:07:42 AM	4.00	mg/dL	0.11	2.77	
724	11/21/2021 7:59:40 AM	4.12	mg/dL	0.23	5.85	
725	11/22/2021 7:10:09 AM	3.88	mg/dL	-0.01	-0.18	
726	11/22/2021 11:54:53 AM	3.81	mg/dL	-0.08	-2.11	
728	11/23/2021 7:54:32 AM	3.70	mg/dL	-0.19	-4.78	
735	11/26/2021 6:28:34 AM	3.61	mg/dL	-0.28	-7.20	
737	11/27/2021 7:11:40 AM	4.08	mg/dL	0.19	4.87	
738	11/28/2021 6:45:47 AM	4.15	mg/dL	0.26	6.72	
739	11/28/2021 11:51:59 AM	4.27	mg/dL	0.38	9.89	

740	11/29/2021 7:09:36 AM	4.43	mg/dL	0.54	13.93
742	11/30/2021 6:46:28 AM	4.32	mg/dL	0.43	11.13

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	1.46	mg/dL	0.150		1.16-1.76

n	Date	Result	Unit	ABS Err	REL error %	Alarms
681	11/1/2021 1:56:39 PM	1.49	mg/dL	0.03	2.00	
683	11/2/2021 2:44:12 PM	1.39	mg/dL	-0.07	-4.79	
685	11/3/2021 4:14:14 PM	1.35	mg/dL	-0.11	-7.42	
687	11/4/2021 5:25:53 PM	1.41	mg/dL	-0.05	-3.57	
689	11/5/2021 4:45:20 PM	1.33	mg/dL	-0.13	-8.58	
692	11/6/2021 5:10:38 PM	1.40	mg/dL	-0.06	-3.92	
694	11/7/2021 8:12:00 PM	1.39	mg/dL	-0.07	-4.79	
695	11/7/2021 9:17:25 PM	1.50	mg/dL	0.04	2.65	
697	11/8/2021 5:55:08 PM	1.47	mg/dL	0.01	0.43	
699	11/9/2021 4:40:09 PM	1.51	mg/dL	0.05	3.42	
700	11/9/2021 4:49:45 PM	1.43	mg/dL	-0.03	-1.98	
701	11/10/2021 8:06:50 AM	1.27	mg/dL	-0.19	-12.79	
703	11/11/2021 5:25:31 PM	1.61	mg/dL	0.15	10.32	
705	11/12/2021 8:56:30 PM	1.57	mg/dL	0.11	7.82	
707	11/13/2021 2:58:01 PM	1.28	mg/dL	-0.18	-12.33	
708	11/13/2021 4:39:43 PM	1.67	mg/dL	0.21	14.58	
710	11/14/2021 4:45:29 PM	1.50	mg/dL	0.04	2.50	
712	11/15/2021 6:36:34 PM	1.26	mg/dL	-0.20	-13.39	
714	11/16/2021 8:48:52 PM	1.36	mg/dL	-0.10	-6.68	
716	11/17/2021 5:32:09 PM	1.26	mg/dL	-0.20	-13.45	
718	11/18/2021 5:44:12 PM	1.39	mg/dL	-0.07	-4.64	
719	11/18/2021 5:56:30 PM	1.44	mg/dL	-0.02	-1.69	
721	11/19/2021 6:45:17 PM	1.37	mg/dL	-0.09	-6.45	
723	11/20/2021 6:52:51 PM	1.50	mg/dL	0.04	2.94	
727	11/22/2021 6:27:00 PM	1.29	mg/dL	-0.17	-11.37	
729	11/23/2021 6:58:13 PM	1.21	mg/dL	-0.25	-17.12	
730	11/23/2021 7:13:30 PM	1.25	mg/dL	-0.21	-14.70	
731	11/24/2021 7:38:45 AM	1.16	mg/dL	-0.30	-20.35	
732	11/25/2021 8:01:30 AM	1.29	mg/dL	-0.17	-11.64	
733	11/25/2021 8:31:35 AM	1.31	mg/dL	-0.15	-10.27	
734	11/25/2021 11:27:44 AM	1.29	mg/dL	-0.17	-11.56	
736	11/26/2021 5:26:34 PM	1.35	mg/dL	-0.11	-7.53	
741	11/29/2021 8:36:39 PM	1.24	mg/dL	-0.22	-14.89	
743	11/30/2021 12:02:12 PM	1.31	mg/dL	-0.15	-10.27	
744	11/30/2021 7:17:20 PM	1.38	mg/dL	-0.08	-5.48	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
BILI DIRECT DPD	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	0.65	mg/dL	0.050		0.50-0.80

n	Date	Result	Unit	ABS Err	REL error %	Alarms
635	11/1/2021 1:56:39 PM	0.64	mg/dL	-0.01	-1.82	
637	11/2/2021 2:43:54 PM	0.66	mg/dL	0.01	1.03	
639	11/3/2021 4:14:14 PM	0.60	mg/dL	-0.05	-7.61	
641	11/4/2021 5:25:53 PM	0.64	mg/dL	-0.01	-1.78	
643	11/5/2021 4:45:20 PM	0.61	mg/dL	-0.04	-5.48	
645	11/6/2021 5:10:38 PM	0.60	mg/dL	-0.05	-7.58	
647	11/7/2021 8:12:00 PM	0.59	mg/dL	-0.06	-9.88	
649	11/8/2021 5:56:02 PM	0.63	mg/dL	-0.02	-3.08	
651	11/9/2021 4:40:09 PM	0.61	mg/dL	-0.04	-6.49	
652	11/10/2021 8:06:32 AM	0.59	mg/dL	-0.06	-8.67	
654	11/11/2021 5:25:31 PM	0.67	mg/dL	0.02	3.08	
656	11/12/2021 9:03:06 PM	0.60	mg/dL	-0.05	-7.69	
657	11/12/2021 9:17:29 PM	0.75	mg/dL	0.10	14.75	
659	11/13/2021 2:58:01 PM	0.71	mg/dL	0.06	9.47	
661	11/14/2021 4:45:29 PM	0.68	mg/dL	0.03	4.64	
663	11/15/2021 6:35:58 PM	0.72	mg/dL	0.07	10.14	
665	11/16/2021 8:48:52 PM	0.73	mg/dL	0.08	12.29	
667	11/17/2021 5:32:09 PM	0.74	mg/dL	0.09	13.19	
669	11/18/2021 5:44:12 PM	0.71	mg/dL	0.06	9.80	
671	11/19/2021 6:45:17 PM	0.64	mg/dL	-0.01	-1.67	
673	11/20/2021 6:52:51 PM	0.70	mg/dL	0.05	7.82	
676	11/22/2021 6:27:00 PM	0.72	mg/dL	0.07	11.06	
678	11/23/2021 6:58:31 PM	0.59	mg/dL	-0.06	-9.23	
679	11/24/2021 7:38:09 AM	0.61	mg/dL	-0.04	-6.91	
680	11/25/2021 8:00:54 AM	0.55	mg/dL	-0.10	-15.27	
682	11/26/2021 5:26:34 PM	0.65	mg/dL	0.00	0.00	
683	11/26/2021 6:11:59 PM	0.66	mg/dL	0.01	1.52	
684	11/26/2021 8:08:00 PM	0.69	mg/dL	0.04	6.15	
685	11/26/2021 9:13:08 PM	0.61	mg/dL	-0.04	-6.15	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
BILI DIRECT DPD	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	1.48	mg/dL	0.103		1.17-1.79

n	Date	Result	Unit	ABS Err	REL error %	Alarms
634	11/1/2021 7:47:11 AM	1.41	mg/dL	-0.07	-5.05	
636	11/2/2021 8:21:34 AM	1.44	mg/dL	-0.04	-2.56	
638	11/3/2021 7:46:49 AM	1.35	mg/dL	-0.13	-8.65	
640	11/4/2021 7:53:39 AM	1.37	mg/dL	-0.11	-7.57	
642	11/5/2021 7:13:23 AM	1.39	mg/dL	-0.09	-6.10	
644	11/6/2021 7:05:16 AM	1.39	mg/dL	-0.09	-5.76	
646	11/7/2021 7:01:41 AM	1.33	mg/dL	-0.15	-10.35	
648	11/8/2021 7:07:41 AM	1.46	mg/dL	-0.02	-1.35	
650	11/9/2021 6:54:55 AM	1.42	mg/dL	-0.06	-4.05	
653	11/11/2021 6:53:46 AM	1.36	mg/dL	-0.12	-8.06	
655	11/12/2021 7:11:23 AM	1.54	mg/dL	0.06	4.24	
658	11/13/2021 7:39:26 AM	1.61	mg/dL	0.13	8.79	
660	11/14/2021 5:46:51 AM	1.56	mg/dL	0.08	5.58	
662	11/15/2021 7:18:00 AM	1.45	mg/dL	-0.03	-2.00	
664	11/16/2021 8:22:55 AM	1.57	mg/dL	0.09	5.79	
666	11/17/2021 7:51:43 AM	1.54	mg/dL	0.06	3.96	
668	11/18/2021 7:38:47 AM	1.57	mg/dL	0.09	6.42	
670	11/19/2021 8:13:20 AM	1.38	mg/dL	-0.10	-6.91	
672	11/20/2021 7:07:06 AM	1.64	mg/dL	0.16	10.54	
674	11/21/2021 7:59:04 AM	1.59	mg/dL	0.11	7.58	
675	11/22/2021 7:09:33 AM	1.58	mg/dL	0.10	6.90	
677	11/23/2021 7:53:56 AM	1.60	mg/dL	0.12	8.26	
681	11/26/2021 6:28:34 AM	1.59	mg/dL	0.11	7.28	
686	11/27/2021 7:11:40 AM	1.33	mg/dL	-0.15	-10.14	
687	11/27/2021 9:32:55 AM	1.30	mg/dL	-0.18	-12.16	
688	11/27/2021 9:59:03 AM	1.51	mg/dL	0.03	2.03	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
GLUCOSE	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	285	mg/dL	22.0		241-329

n	Date	Result	Unit	ABS Err	REL error %	Alarms
518	11/1/2021 7:48:41 AM	271	mg/dL	-14	-5.00	
519	11/2/2021 8:22:46 AM	277	mg/dL	-8	-2.80	
523	11/3/2021 7:48:01 AM	255	mg/dL	-30	-10.35	
524	11/4/2021 7:54:33 AM	270	mg/dL	-15	-5.22	
525	11/5/2021 7:14:35 AM	267	mg/dL	-18	-6.43	
526	11/6/2021 7:06:28 AM	265	mg/dL	-20	-7.05	
527	11/7/2021 7:02:53 AM	279	mg/dL	-6	-2.09	
528	11/8/2021 7:09:11 AM	272	mg/dL	-13	-4.69	
530	11/9/2021 6:56:25 AM	260	mg/dL	-25	-8.90	
532	11/11/2021 6:55:16 AM	249	mg/dL	-36	-12.79	
533	11/12/2021 7:12:16 AM	272	mg/dL	-13	-4.71	
534	11/13/2021 7:40:56 AM	272	mg/dL	-13	-4.53	
535	11/14/2021 5:47:27 AM	273	mg/dL	-12	-4.08	
536	11/15/2021 7:19:12 AM	274	mg/dL	-11	-3.70	
537	11/16/2021 8:24:43 AM	285	mg/dL	0	-0.16	
538	11/17/2021 7:52:55 AM	283	mg/dL	-2	-0.81	
539	11/18/2021 7:39:59 AM	283	mg/dL	-2	-0.76	
540	11/19/2021 8:14:31 AM	275	mg/dL	-10	-3.41	
541	11/20/2021 7:08:18 AM	286	mg/dL	1	0.37	
543	11/21/2021 8:00:16 AM	258	mg/dL	-27	-9.39	
544	11/22/2021 7:10:44 AM	254	mg/dL	-31	-10.79	
545	11/23/2021 7:55:08 AM	265	mg/dL	-20	-6.99	
548	11/26/2021 6:29:27 AM	275	mg/dL	-10	-3.41	
549	11/27/2021 7:12:34 AM	273	mg/dL	-12	-4.06	
550	11/28/2021 6:46:41 AM	280	mg/dL	-5	-1.85	
551	11/28/2021 11:52:53 AM	276	mg/dL	-9	-3.10	
552	11/29/2021 7:10:30 AM	269	mg/dL	-16	-5.58	
553	11/30/2021 6:47:04 AM	276	mg/dL	-9	-3.09	

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	109	mg/dL	8.0		93-125

n	Date	Result	Unit	ABS Err	REL error %	Alarms
520	11/2/2021 2:46:18 PM	115	mg/dL	6	5.50	
521	11/2/2021 3:04:36 PM	111	mg/dL	2	1.83	
522	11/2/2021 3:17:30 PM	101	mg/dL	-8	-7.72	
529	11/8/2021 5:59:02 PM	98	mg/dL	-11	-10.37	
531	11/10/2021 8:08:02 AM	102	mg/dL	-7	-6.84	
542	11/20/2021 6:54:57 PM	102	mg/dL	-7	-6.80	
546	11/24/2021 7:39:21 AM	97	mg/dL	-12	-10.90	
547	11/25/2021 8:02:06 AM	97	mg/dL	-12	-11.26	
554	11/30/2021 12:02:29 PM	99	mg/dL	-10	-9.17	
555	11/30/2021 7:40:44 PM	101	mg/dL	-8	-7.34	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
CHOL HDL DIRECT	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	77.6	mg/dL	3.87		66.0-89.2

n	Date	Result	Unit	ABS Err	REL error %	Alarms
313	11/1/2021 7:48:41 AM	71.0	mg/dL	-6.6	-8.47	
314	11/2/2021 8:22:46 AM	75.2	mg/dL	-2.4	-3.06	
315	11/3/2021 7:48:01 AM	73.3	mg/dL	-4.3	-5.55	
316	11/4/2021 7:54:33 AM	75.5	mg/dL	-2.1	-2.70	
317	11/5/2021 7:14:36 AM	76.0	mg/dL	-1.6	-2.07	
318	11/6/2021 7:06:28 AM	72.6	mg/dL	-5.0	-6.49	
319	11/7/2021 7:02:53 AM	73.0	mg/dL	-4.6	-5.94	
320	11/8/2021 7:09:11 AM	71.5	mg/dL	-6.1	-7.88	
321	11/9/2021 6:56:25 AM	76.6	mg/dL	-1.0	-1.29	
323	11/11/2021 6:55:16 AM	79.5	mg/dL	1.9	2.45	
325	11/14/2021 5:47:27 AM	83.9	mg/dL	6.3	8.14	
326	11/15/2021 7:19:12 AM	80.6	mg/dL	3.0	3.93	
327	11/16/2021 8:24:43 AM	83.7	mg/dL	6.1	7.90	
328	11/17/2021 7:52:55 AM	76.8	mg/dL	-0.8	-1.03	
329	11/18/2021 7:39:59 AM	82.3	mg/dL	4.7	6.06	
330	11/19/2021 8:14:32 AM	80.6	mg/dL	3.0	3.88	
331	11/20/2021 7:08:18 AM	83.9	mg/dL	6.3	8.12	
332	11/21/2021 8:00:16 AM	77.7	mg/dL	0.1	0.13	
333	11/22/2021 7:10:45 AM	80.0	mg/dL	2.4	3.11	
334	11/22/2021 11:57:35 AM	75.7	mg/dL	-1.9	-2.45	
335	11/22/2021 12:10:47 PM	78.3	mg/dL	0.7	0.86	
337	11/23/2021 7:55:08 AM	80.9	mg/dL	3.3	4.27	
342	11/26/2021 6:29:27 AM	79.9	mg/dL	2.3	3.01	
344	11/27/2021 7:12:34 AM	80.6	mg/dL	3.0	3.92	
345	11/28/2021 6:46:41 AM	79.9	mg/dL	2.3	2.99	
346	11/28/2021 11:52:53 AM	77.9	mg/dL	0.3	0.42	
347	11/29/2021 7:10:30 AM	74.0	mg/dL	-3.6	-4.64	
348	11/29/2021 11:26:06 AM	79.6	mg/dL	2.0	2.62	



349 11/30/2021 6:47:04 AM 78.4 mg/dL 0.8 1.03

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	56.4	mg/dL	2.83		47.9-64.9

n	Date	Result	Unit	ABS Err	REL error %	Alarms
322	11/10/2021 8:08:02 AM	57.2	mg/dL	0.8	1.35	
324	11/13/2021 3:00:25 PM	57.4	mg/dL	1.0	1.84	
336	11/22/2021 6:29:24 PM	58.0	mg/dL	1.6	2.80	
338	11/23/2021 6:12:26 PM	57.2	mg/dL	0.8	1.34	
339	11/23/2021 7:00:37 PM	54.2	mg/dL	-2.2	-3.95	
340	11/24/2021 7:39:21 AM	56.9	mg/dL	0.5	0.80	
341	11/25/2021 8:02:06 AM	56.5	mg/dL	0.1	0.20	
343	11/26/2021 5:28:58 PM	52.7	mg/dL	-3.7	-6.53	
350	11/30/2021 12:02:29 PM	58.0	mg/dL	1.6	2.91	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
IRON FERROZINE	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	223.0	µg/dL	14.33		180.0-266.0

n	Date	Result	Unit	ABS Err	REL error %	Alarms
415	11/1/2021 7:49:16 AM	207.8	µg/dL	-15.2	-6.80	
416	11/2/2021 8:23:22 AM	223.1	µg/dL	0.1	0.05	
417	11/3/2021 7:48:37 AM	219.5	µg/dL	-3.5	-1.56	
418	11/4/2021 7:55:09 AM	233.6	µg/dL	10.6	4.77	
419	11/5/2021 7:15:11 AM	234.2	µg/dL	11.2	5.01	
420	11/6/2021 7:07:04 AM	207.4	µg/dL	-15.6	-7.02	
421	11/7/2021 7:03:29 AM	223.6	µg/dL	0.6	0.26	
422	11/8/2021 7:09:47 AM	214.9	µg/dL	-8.1	-3.63	
423	11/9/2021 6:57:01 AM	205.0	µg/dL	-18.0	-8.07	
425	11/11/2021 6:55:52 AM	196.5	µg/dL	-26.5	-11.90	
426	11/12/2021 7:12:52 AM	225.0	µg/dL	2.0	0.91	
427	11/13/2021 7:41:32 AM	220.7	µg/dL	-2.3	-1.05	
428	11/14/2021 5:48:03 AM	246.3	µg/dL	23.3	10.45	
429	11/15/2021 7:19:48 AM	232.7	µg/dL	9.7	4.36	
431	11/16/2021 8:25:19 AM	235.5	µg/dL	12.5	5.61	
432	11/17/2021 7:53:31 AM	246.0	µg/dL	23.0	10.30	
433	11/18/2021 7:40:35 AM	244.7	µg/dL	21.7	9.72	
434	11/19/2021 8:15:08 AM	242.7	µg/dL	19.7	8.83	
435	11/20/2021 7:08:54 AM	241.9	µg/dL	18.9	8.48	
436	11/21/2021 8:00:52 AM	251.5	µg/dL	28.5	12.80	
437	11/22/2021 7:11:20 AM	248.1	µg/dL	25.1	11.27	
438	11/23/2021 7:55:44 AM	245.0	µg/dL	22.0	9.87	
443	11/26/2021 6:30:03 AM	251.2	µg/dL	28.2	12.67	
444	11/27/2021 7:13:10 AM	243.9	µg/dL	20.9	9.37	
445	11/28/2021 6:47:17 AM	244.4	µg/dL	21.4	9.59	
446	11/29/2021 7:11:06 AM	230.9	µg/dL	7.9	3.52	
447	11/30/2021 6:47:40 AM	242.8	µg/dL	19.8	8.88	
448	11/30/2021 9:49:32 AM	247.7	µg/dL	24.7	11.08	

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	110.5	µg/dL	6.83		90.0-131.0

n	Date	Result	Unit	ABS Err	REL error %	Alarms
424	11/10/2021 8:08:38 AM	110.1	µg/dL	-0.4	-0.39	
430	11/15/2021 6:38:22 PM	120.3	µg/dL	9.8	8.88	
439	11/24/2021 7:39:57 AM	112.0	µg/dL	1.5	1.36	
440	11/24/2021 10:38:18 AM	113.0	µg/dL	2.5	2.26	
441	11/24/2021 12:18:45 PM	114.0	µg/dL	3.5	3.17	
442	11/25/2021 8:02:42 AM	119.2	µg/dL	8.7	7.85	
449	11/30/2021 12:03:06 PM	103.2	µg/dL	-7.3	-6.63	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
LDH	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L3	1069UE	692	U/L	34.3		589-795

n	Date	Result	Unit	ABS Err	REL error %	Alarms
419	11/1/2021 7:49:52 AM	669	U/L	-23	-3.31	
420	11/2/2021 8:23:58 AM	695	U/L	3	0.47	
421	11/3/2021 7:49:13 AM	660	U/L	-32	-4.60	
422	11/4/2021 7:56:03 AM	703	U/L	11	1.66	
423	11/5/2021 7:15:47 AM	663	U/L	-29	-4.22	
424	11/6/2021 7:07:40 AM	692	U/L	0	0.04	
425	11/7/2021 7:04:05 AM	697	U/L	5	0.79	
426	11/8/2021 7:10:23 AM	685	U/L	-7	-0.94	
427	11/9/2021 6:57:37 AM	654	U/L	-38	-5.48	
429	11/11/2021 6:56:28 AM	648	U/L	-44	-6.40	
430	11/12/2021 7:14:04 AM	665	U/L	-27	-3.90	
431	11/13/2021 7:42:08 AM	659	U/L	-33	-4.72	
432	11/14/2021 5:49:15 AM	649	U/L	-43	-6.18	
433	11/23/2021 1:24:32 PM	699	U/L	7	0.96	
434	11/26/2021 6:30:57 AM	743	U/L	51	7.39	
435	11/27/2021 7:14:03 AM	753	U/L	61	8.80	
436	11/28/2021 6:47:53 AM	719	U/L	27	3.87	
437	11/28/2021 11:54:23 AM	754	U/L	62	8.90	
438	11/29/2021 7:11:42 AM	739	U/L	47	6.76	
439	11/30/2021 6:48:34 AM	778	U/L	86	12.45	1-2s

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	387	U/L	19.3		329-445

n	Date	Result	Unit	ABS Err	REL error %	Alarms
428	11/10/2021 8:09:14 AM	378	U/L	-9	-2.43	
440	11/30/2021 12:03:41 PM	380	U/L	-7	-1.76	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
MAGNESIUM	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L3	1069UE	4.30	mg/dL	0.500		2.80-5.80

n	Date	Result	Unit	ABS Err	REL error %	Alarms
196	11/2/2021 8:23:40 AM	3.70	mg/dL	-0.60	-14.04	
197	11/3/2021 7:48:55 AM	4.24	mg/dL	-0.06	-1.40	
198	11/4/2021 7:55:27 AM	4.47	mg/dL	0.17	4.06	
199	11/5/2021 7:15:30 AM	4.10	mg/dL	-0.20	-4.55	
200	11/6/2021 7:07:22 AM	3.82	mg/dL	-0.48	-11.16	
201	11/7/2021 7:03:47 AM	3.99	mg/dL	-0.31	-7.21	
202	11/14/2021 5:48:21 AM	3.47	mg/dL	-0.83	-19.24	
203	11/15/2021 7:20:06 AM	3.51	mg/dL	-0.79	-18.37	
204	11/17/2021 7:53:49 AM	3.72	mg/dL	-0.58	-13.45	
205	11/18/2021 7:40:53 AM	3.81	mg/dL	-0.49	-11.36	
206	11/19/2021 8:15:25 AM	3.81	mg/dL	-0.49	-11.33	
207	11/20/2021 7:09:12 AM	3.95	mg/dL	-0.35	-8.17	
208	11/21/2021 8:01:10 AM	4.06	mg/dL	-0.24	-5.49	
209	11/22/2021 7:11:38 AM	3.91	mg/dL	-0.39	-8.99	
210	11/23/2021 7:56:02 AM	4.02	mg/dL	-0.28	-6.57	
213	11/26/2021 6:30:22 AM	3.84	mg/dL	-0.46	-10.64	
214	11/27/2021 7:13:28 AM	3.83	mg/dL	-0.47	-10.97	
215	11/28/2021 6:47:35 AM	3.69	mg/dL	-0.61	-14.22	
216	11/28/2021 11:53:29 AM	3.52	mg/dL	-0.78	-18.14	
217	11/29/2021 7:11:24 AM	3.62	mg/dL	-0.68	-15.81	
218	11/30/2021 6:47:58 AM	3.95	mg/dL	-0.35	-8.25	

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	1.95	mg/dL	0.250		1.20-2.70

n	Date	Result	Unit	ABS Err	REL error %	Alarms
211	11/24/2021 7:40:15 AM	1.91	mg/dL	-0.04	-2.18	
212	11/25/2021 8:03:00 AM	1.89	mg/dL	-0.06	-3.19	
219	11/30/2021 12:03:24 PM	1.66	mg/dL	-0.29	-15.11	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
AST-GOT	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	35	U/L	3.5		28-42

n	Date	Result	Unit	ABS Err	REL error %	Alarms
632	11/1/2021 1:59:39 PM	30	U/L	-5	-12.99	
635	11/3/2021 4:17:14 PM	31	U/L	-4	-11.25	
637	11/4/2021 5:28:53 PM	32	U/L	-3	-9.00	
639	11/5/2021 4:48:20 PM	31	U/L	-4	-11.10	
641	11/6/2021 5:13:38 PM	30	U/L	-5	-13.34	
643	11/7/2021 8:15:00 PM	30	U/L	-5	-14.14	
645	11/8/2021 6:00:13 PM	32	U/L	-3	-9.00	
647	11/9/2021 4:43:09 PM	30	U/L	-5	-14.79	
648	11/10/2021 8:08:56 AM	31	U/L	-4	-10.51	
650	11/11/2021 5:28:31 PM	36	U/L	1	3.77	
652	11/12/2021 9:07:18 PM	38	U/L	3	8.70	
654	11/13/2021 3:01:01 PM	36	U/L	1	3.19	
656	11/14/2021 4:48:29 PM	37	U/L	2	4.85	
658	11/15/2021 6:38:40 PM	37	U/L	2	5.40	
660	11/16/2021 8:51:52 PM	33	U/L	-2	-5.20	
662	11/17/2021 5:35:09 PM	32	U/L	-3	-7.35	
664	11/18/2021 5:47:12 PM	34	U/L	-1	-3.49	
666	11/19/2021 6:48:17 PM	35	U/L	0	-0.22	
668	11/20/2021 6:55:51 PM	35	U/L	0	0.85	
671	11/22/2021 6:30:00 PM	33	U/L	-2	-6.80	
673	11/23/2021 7:01:12 PM	30	U/L	-5	-13.41	
674	11/24/2021 7:40:33 AM	35	U/L	0	-1.14	
675	11/25/2021 8:03:18 AM	33	U/L	-2	-4.84	
677	11/26/2021 5:29:34 PM	32	U/L	-3	-8.59	
682	11/29/2021 8:39:39 PM	30	U/L	-5	-13.20	
684	11/30/2021 12:03:23 PM	28	U/L	-7	-19.75	
685	11/30/2021 7:19:26 PM	29	U/L	-6	-17.90	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
AST-GOT	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	159	U/L	16.0		127-191

n	Date	Result	Unit	ABS Err	REL error %	Alarms
631	11/1/2021 7:49:34 AM	147	U/L	-12	-7.78	
633	11/2/2021 8:23:40 AM	135	U/L	-24	-15.35	
634	11/3/2021 7:48:55 AM	135	U/L	-24	-14.85	
636	11/4/2021 7:55:45 AM	139	U/L	-20	-12.74	
638	11/5/2021 7:15:30 AM	136	U/L	-23	-14.37	
640	11/6/2021 7:07:22 AM	138	U/L	-21	-13.40	
642	11/7/2021 7:03:47 AM	145	U/L	-14	-8.80	
644	11/8/2021 7:10:05 AM	140	U/L	-19	-12.10	
646	11/9/2021 6:57:19 AM	131	U/L	-28	-17.67	
649	11/11/2021 6:56:10 AM	132	U/L	-27	-17.07	
651	11/12/2021 7:13:28 AM	154	U/L	-5	-3.30	
653	11/13/2021 7:41:50 AM	150	U/L	-9	-5.71	
655	11/14/2021 5:48:57 AM	152	U/L	-7	-4.25	
657	11/15/2021 7:20:24 AM	155	U/L	-4	-2.39	
659	11/16/2021 8:25:37 AM	158	U/L	-1	-0.59	
661	11/17/2021 7:54:07 AM	143	U/L	-16	-9.85	
663	11/18/2021 7:41:11 AM	142	U/L	-17	-10.99	
665	11/19/2021 8:15:44 AM	138	U/L	-21	-13.28	
667	11/20/2021 7:09:30 AM	154	U/L	-5	-3.12	
669	11/21/2021 8:01:28 AM	145	U/L	-14	-8.89	
670	11/22/2021 7:11:56 AM	143	U/L	-16	-10.21	
672	11/23/2021 7:56:20 AM	150	U/L	-9	-5.72	
676	11/26/2021 6:30:21 AM	146	U/L	-13	-8.05	
678	11/27/2021 7:13:28 AM	146	U/L	-13	-8.06	
679	11/28/2021 6:47:35 AM	149	U/L	-10	-6.03	
680	11/28/2021 11:53:47 AM	152	U/L	-7	-4.17	
681	11/29/2021 7:11:24 AM	149	U/L	-10	-6.35	
683	11/30/2021 6:48:16 AM	153	U/L	-6	-3.86	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
ALT-GPT	SER	Statistical	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	43	U/L	1.8	4.17	37-48

n	Date	Result	Unit	ABS Err	REL error %	Alarms
642	11/1/2021 1:59:57 PM	41	U/L	-1	-3.18	
644	11/2/2021 2:47:12 PM	40	U/L	-3	-6.64	
646	11/3/2021 4:17:32 PM	41	U/L	-2	-3.84	
648	11/4/2021 5:29:11 PM	40	U/L	-3	-6.64	
650	11/5/2021 4:48:38 PM	42	U/L	-1	-1.46	
652	11/6/2021 5:13:56 PM	40	U/L	-3	-5.88	
654	11/7/2021 8:15:18 PM	41	U/L	-2	-4.30	
656	11/8/2021 6:00:31 PM	41	U/L	-2	-3.93	
658	11/9/2021 4:43:27 PM	40	U/L	-3	-6.64	
659	11/10/2021 8:09:14 AM	43	U/L	0	0.36	
661	11/11/2021 5:28:49 PM	44	U/L	1	2.70	
663	11/12/2021 9:07:35 PM	44	U/L	1	2.70	
664	11/12/2021 9:21:05 PM	43	U/L	0	0.36	
666	11/13/2021 3:01:19 PM	44	U/L	2	3.85	
668	11/14/2021 4:48:47 PM	46	U/L	3	7.26	
670	11/15/2021 6:38:58 PM	42	U/L	-1	-1.97	
672	11/16/2021 8:52:10 PM	43	U/L	0	-0.75	
674	11/17/2021 5:35:27 PM	44	U/L	1	2.90	
676	11/18/2021 5:47:30 PM	43	U/L	0	-0.80	
678	11/19/2021 6:48:35 PM	43	U/L	1	1.40	
680	11/20/2021 6:56:09 PM	46	U/L	3	6.54	
683	11/22/2021 6:30:18 PM	44	U/L	2	3.62	
685	11/23/2021 7:01:48 PM	40	U/L	-3	-7.35	
686	11/24/2021 7:40:51 AM	41	U/L	-1	-3.31	
687	11/25/2021 8:03:36 AM	41	U/L	-2	-4.89	
689	11/26/2021 5:29:52 PM	42	U/L	-1	-1.61	
694	11/29/2021 8:39:57 PM	41	U/L	-2	-4.30	
697	11/30/2021 12:03:41 PM	43	U/L	0	0.36	
698	11/30/2021 7:19:44 PM	41	U/L	-2	-3.68	



## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
ALT-GPT	SER	Statistical	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	160	U/L	3.4	2.13	150-170

n	Date	Result	Unit	ABS Err	REL error %	Alarms
641	11/1/2021 7:49:52 AM	164	U/L	5	2.90	
643	11/2/2021 8:23:58 AM	156	U/L	-4	-2.56	
645	11/3/2021 7:49:13 AM	156	U/L	-4	-2.23	
647	11/4/2021 7:56:03 AM	157	U/L	-3	-1.84	
649	11/5/2021 7:15:48 AM	157	U/L	-3	-2.04	
651	11/6/2021 7:07:40 AM	159	U/L	-1	-0.67	
653	11/7/2021 7:04:05 AM	165	U/L	5	3.42	
655	11/8/2021 7:10:23 AM	157	U/L	-3	-1.75	
657	11/9/2021 6:57:37 AM	155	U/L	-5	-3.06	
660	11/11/2021 6:56:28 AM	153	U/L	-7	-4.07	
662	11/12/2021 7:13:46 AM	154	U/L	-6	-3.61	
665	11/13/2021 7:42:08 AM	154	U/L	-6	-3.93	
667	11/14/2021 5:49:15 AM	162	U/L	2	1.38	
669	11/15/2021 7:20:42 AM	157	U/L	-3	-1.62	
671	11/16/2021 8:25:55 AM	158	U/L	-2	-1.12	
673	11/17/2021 7:54:25 AM	161	U/L	1	0.75	
675	11/18/2021 7:41:29 AM	157	U/L	-3	-1.82	
677	11/19/2021 8:16:01 AM	157	U/L	-3	-1.75	
679	11/20/2021 7:09:48 AM	160	U/L	0	0.10	
681	11/21/2021 8:01:46 AM	162	U/L	2	1.38	
682	11/22/2021 7:12:14 AM	159	U/L	-1	-0.50	
684	11/23/2021 7:56:38 AM	161	U/L	1	0.73	
688	11/26/2021 6:30:39 AM	166	U/L	6	3.88	
690	11/27/2021 7:13:45 AM	162	U/L	2	1.38	
691	11/28/2021 6:47:53 AM	163	U/L	3	2.01	
692	11/28/2021 11:54:05 AM	165	U/L	5	3.26	
693	11/29/2021 7:11:42 AM	166	U/L	6	3.64	
695	11/30/2021 6:48:34 AM	161	U/L	1	0.75	

696 11/30/2021 9:49:50 160  
AM

U/L

1

0.43

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
PROTEIN TOTAL	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	4.66	g/dL	0.310		3.73-5.59

n	Date	Result	Unit	ABS Err	REL error %	Alarms
627	11/1/2021 7:44:10 AM	5.00	g/dL	0.34	7.30	
629	11/2/2021 8:19:28 AM	5.07	g/dL	0.41	8.82	
631	11/3/2021 7:44:43 AM	4.46	g/dL	-0.20	-4.38	
633	11/4/2021 7:51:15 AM	4.99	g/dL	0.33	7.08	
635	11/5/2021 7:11:17 AM	5.07	g/dL	0.41	8.84	
636	11/5/2021 9:59:07 AM	5.06	g/dL	0.40	8.58	
638	11/6/2021 7:03:10 AM	4.55	g/dL	-0.11	-2.36	
639	11/6/2021 1:17:18 PM	5.04	g/dL	0.38	8.12	
641	11/7/2021 6:59:35 AM	5.39	g/dL	0.73	15.57	1-2s
643	11/8/2021 7:04:59 AM	4.85	g/dL	0.19	4.06	
645	11/9/2021 6:51:55 AM	4.67	g/dL	0.01	0.21	
646	11/9/2021 8:48:24 AM	5.17	g/dL	0.51	10.86	
649	11/11/2021 6:50:46 AM	5.14	g/dL	0.48	10.40	
650	11/12/2021 7:08:58 AM	4.95	g/dL	0.29	6.31	
652	11/13/2021 7:36:26 AM	5.37	g/dL	0.71	15.19	1-2s
654	11/14/2021 5:44:09 AM	5.14	g/dL	0.48	10.30	
655	11/14/2021 12:43:48 PM	5.18	g/dL	0.52	11.16	
657	11/15/2021 7:15:54 AM	4.45	g/dL	-0.21	-4.51	
659	11/16/2021 8:20:13 AM	5.00	g/dL	0.34	7.30	
660	11/16/2021 11:38:52 AM	4.98	g/dL	0.32	6.85	
662	11/17/2021 7:49:37 AM	5.20	g/dL	0.54	11.51	
664	11/18/2021 7:36:41 AM	5.11	g/dL	0.45	9.66	
666	11/19/2021 8:11:13 AM	5.17	g/dL	0.51	10.97	
668	11/20/2021 7:05:00 AM	5.17	g/dL	0.51	11.05	
670	11/21/2021 7:56:58 AM	5.26	g/dL	0.60	12.95	
671	11/22/2021 7:07:26 AM	5.27	g/dL	0.61	13.18	
672	11/22/2021 11:49:11 AM	4.90	g/dL	0.24	5.15	
674	11/23/2021 7:51:50 AM	5.03	g/dL	0.37	7.94	
678	11/26/2021 6:26:10 AM	5.13	g/dL	0.47	10.09	

680	11/27/2021 7:09:15 AM	5.11	g/dL	0.45	9.66
681	11/27/2021 8:43:04 AM	5.18	g/dL	0.52	11.16
682	11/28/2021 6:42:29 AM	4.99	g/dL	0.33	7.08
683	11/28/2021 11:48:59 AM	4.46	g/dL	-0.20	-4.29
684	11/29/2021 7:06:18 AM	5.19	g/dL	0.53	11.31
686	11/30/2021 6:43:46 AM	5.17	g/dL	0.51	11.04

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	5.81	g/dL	0.387		4.65-6.97

n	Date	Result	Unit	ABS Err	REL error %	Alarms
628	11/1/2021 1:52:27 PM	5.69	g/dL	-0.12	-1.98	
630	11/2/2021 2:39:42 PM	5.99	g/dL	0.18	3.17	
632	11/3/2021 4:10:02 PM	5.36	g/dL	-0.45	-7.75	
634	11/4/2021 5:21:41 PM	6.32	g/dL	0.51	8.70	
637	11/5/2021 4:41:08 PM	4.76	g/dL	-1.05	-18.03	1-2s
640	11/6/2021 5:06:26 PM	6.05	g/dL	0.24	4.07	
642	11/7/2021 8:07:48 PM	6.29	g/dL	0.48	8.29	
644	11/8/2021 5:52:26 PM	6.20	g/dL	0.39	6.72	
647	11/9/2021 4:35:57 PM	6.38	g/dL	0.57	9.73	
648	11/10/2021 8:03:32 AM	6.71	g/dL	0.90	15.47	1-2s
651	11/12/2021 8:59:48 PM	6.24	g/dL	0.43	7.36	
653	11/13/2021 2:53:49 PM	5.61	g/dL	-0.20	-3.44	
656	11/14/2021 4:41:35 PM	5.66	g/dL	-0.15	-2.58	
658	11/15/2021 6:31:46 PM	6.58	g/dL	0.77	13.23	
661	11/16/2021 8:44:40 PM	6.14	g/dL	0.33	5.71	
663	11/17/2021 5:27:57 PM	6.40	g/dL	0.59	10.08	
665	11/18/2021 5:40:00 PM	6.44	g/dL	0.63	10.85	
667	11/19/2021 6:41:05 PM	6.37	g/dL	0.56	9.64	
669	11/20/2021 6:48:39 PM	5.19	g/dL	-0.62	-10.67	
673	11/22/2021 6:24:00 PM	5.95	g/dL	0.14	2.41	
675	11/23/2021 6:55:30 PM	5.66	g/dL	-0.15	-2.50	
676	11/24/2021 7:36:03 AM	6.10	g/dL	0.29	5.03	
677	11/25/2021 7:58:48 AM	6.13	g/dL	0.32	5.45	
679	11/26/2021 5:23:34 PM	6.08	g/dL	0.27	4.58	
685	11/29/2021 8:32:09 PM	5.85	g/dL	0.04	0.68	
687	11/30/2021 11:59:11 AM	5.55	g/dL	-0.26	-4.51	
688	11/30/2021 7:12:32 PM	5.17	g/dL	-0.64	-10.99	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
BILI TOTAL DPD	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	5.14	mg/dL	0.360		4.06-6.22

n	Date	Result	Unit	ABS Err	REL error %	Alarms
623	11/1/2021 7:48:58 AM	4.81	mg/dL	-0.33	-6.39	
625	11/2/2021 8:23:04 AM	5.06	mg/dL	-0.08	-1.58	
627	11/3/2021 7:48:19 AM	4.91	mg/dL	-0.23	-4.55	
629	11/4/2021 7:54:51 AM	5.22	mg/dL	0.08	1.47	
632	11/5/2021 7:14:53 AM	5.25	mg/dL	0.11	2.20	
634	11/6/2021 7:06:46 AM	4.95	mg/dL	-0.19	-3.70	
636	11/7/2021 7:03:11 AM	5.42	mg/dL	0.28	5.40	
638	11/8/2021 7:09:29 AM	5.21	mg/dL	0.07	1.33	
640	11/9/2021 6:56:43 AM	5.29	mg/dL	0.15	2.98	
643	11/11/2021 6:55:34 AM	4.46	mg/dL	-0.68	-13.15	
645	11/12/2021 7:12:34 AM	5.15	mg/dL	0.01	0.20	
647	11/13/2021 7:41:14 AM	4.69	mg/dL	-0.45	-8.68	
649	11/14/2021 5:47:45 AM	5.32	mg/dL	0.18	3.44	
651	11/15/2021 7:19:30 AM	5.15	mg/dL	0.01	0.19	
653	11/16/2021 8:25:01 AM	5.29	mg/dL	0.15	2.85	
655	11/17/2021 7:53:13 AM	5.22	mg/dL	0.08	1.52	
657	11/18/2021 7:40:17 AM	5.41	mg/dL	0.27	5.31	
659	11/19/2021 8:14:50 AM	5.31	mg/dL	0.17	3.39	
661	11/20/2021 7:08:36 AM	5.51	mg/dL	0.37	7.28	
663	11/21/2021 8:00:34 AM	4.96	mg/dL	-0.18	-3.42	
664	11/22/2021 7:11:02 AM	5.15	mg/dL	0.01	0.20	
666	11/23/2021 7:55:26 AM	5.28	mg/dL	0.14	2.66	
670	11/26/2021 6:29:45 AM	5.66	mg/dL	0.52	10.16	
672	11/27/2021 7:12:51 AM	5.63	mg/dL	0.49	9.59	
673	11/28/2021 6:46:59 AM	5.61	mg/dL	0.47	9.16	
674	11/28/2021 11:53:11 AM	5.17	mg/dL	0.03	0.55	
675	11/29/2021 7:10:48 AM	4.90	mg/dL	-0.24	-4.66	
677	11/30/2021 6:47:22 AM	5.03	mg/dL	-0.11	-2.11	

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	1.57	mg/dL	0.107		1.25-1.89

n	Date	Result	Unit	ABS Err	REL error %	Alarms
624	11/1/2021 1:59:03 PM	1.66	mg/dL	0.09	5.44	
626	11/2/2021 2:46:36 PM	1.54	mg/dL	-0.03	-1.97	
628	11/3/2021 4:16:38 PM	1.51	mg/dL	-0.06	-4.12	
630	11/4/2021 5:28:17 PM	1.49	mg/dL	-0.08	-5.10	
631	11/4/2021 5:41:11 PM	1.68	mg/dL	0.11	7.01	
633	11/5/2021 4:47:44 PM	1.43	mg/dL	-0.14	-9.08	
635	11/6/2021 6:16:28 PM	1.41	mg/dL	-0.16	-10.15	
637	11/7/2021 8:14:24 PM	1.47	mg/dL	-0.10	-6.30	
639	11/8/2021 5:59:20 PM	1.44	mg/dL	-0.13	-8.42	
641	11/9/2021 4:42:15 PM	1.59	mg/dL	0.02	1.27	
642	11/10/2021 8:08:20 AM	1.44	mg/dL	-0.13	-7.99	
644	11/11/2021 5:27:55 PM	1.53	mg/dL	-0.04	-2.45	
646	11/12/2021 9:06:42 PM	1.48	mg/dL	-0.09	-6.04	
648	11/13/2021 3:00:25 PM	1.63	mg/dL	0.06	3.90	
650	11/14/2021 4:47:53 PM	1.66	mg/dL	0.09	5.75	
652	11/15/2021 7:09:58 PM	1.61	mg/dL	0.04	2.53	
654	11/16/2021 8:51:16 PM	1.53	mg/dL	-0.04	-2.64	
656	11/17/2021 5:34:33 PM	1.39	mg/dL	-0.18	-11.46	
658	11/18/2021 5:46:36 PM	1.78	mg/dL	0.21	13.36	
660	11/19/2021 6:47:41 PM	1.39	mg/dL	-0.18	-11.46	
662	11/20/2021 6:55:15 PM	1.53	mg/dL	-0.04	-2.53	
665	11/22/2021 6:29:24 PM	1.61	mg/dL	0.04	2.26	
667	11/23/2021 7:00:36 PM	1.39	mg/dL	-0.18	-11.46	
668	11/24/2021 7:39:39 AM	1.43	mg/dL	-0.14	-8.92	
669	11/25/2021 8:02:24 AM	1.40	mg/dL	-0.17	-10.83	
671	11/26/2021 5:28:58 PM	1.42	mg/dL	-0.15	-9.55	
676	11/29/2021 8:39:03 PM	1.49	mg/dL	-0.08	-4.91	
678	11/30/2021 12:02:47 PM	1.41	mg/dL	-0.16	-10.19	
679	11/30/2021 7:18:50 PM	1.37	mg/dL	-0.20	-12.74	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
TRIGLYCERIDES	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	250	mg/dL	13.0		211-289

n	Date	Result	Unit	ABS Err	REL error %	Alarms
503	11/1/2021 7:47:28 AM	245	mg/dL	-5	-2.09	
504	11/2/2021 8:22:10 AM	266	mg/dL	16	6.59	
505	11/3/2021 7:47:25 AM	257	mg/dL	7	2.86	
506	11/4/2021 7:54:15 AM	248	mg/dL	-2	-0.70	
507	11/5/2021 7:13:59 AM	248	mg/dL	-2	-0.71	
508	11/6/2021 7:05:52 AM	233	mg/dL	-17	-6.78	
509	11/7/2021 7:02:17 AM	255	mg/dL	5	2.03	
510	11/8/2021 7:08:17 AM	223	mg/dL	-27	-10.85	1-2s
511	11/9/2021 6:55:13 AM	242	mg/dL	-8	-3.11	
513	11/11/2021 6:54:04 AM	238	mg/dL	-12	-4.87	
514	11/12/2021 7:11:40 AM	246	mg/dL	-4	-1.77	
515	11/13/2021 7:39:44 AM	234	mg/dL	-16	-6.46	
516	11/14/2021 5:47:27 AM	252	mg/dL	2	0.62	
517	11/15/2021 7:18:36 AM	255	mg/dL	5	2.04	
518	11/16/2021 8:23:31 AM	263	mg/dL	13	5.17	
519	11/17/2021 7:52:19 AM	267	mg/dL	17	6.79	
520	11/18/2021 7:39:23 AM	276	mg/dL	26	10.49	1-2s
521	11/19/2021 8:13:56 AM	279	mg/dL	29	11.57	1-2s
522	11/20/2021 7:07:42 AM	271	mg/dL	21	8.34	
523	11/21/2021 7:59:40 AM	265	mg/dL	15	5.94	
524	11/22/2021 7:10:08 AM	281	mg/dL	31	12.43	1-2s
526	11/23/2021 7:54:32 AM	274	mg/dL	24	9.45	
532	11/26/2021 6:29:09 AM	271	mg/dL	21	8.40	
534	11/27/2021 7:12:16 AM	260	mg/dL	10	4.00	
535	11/28/2021 6:45:47 AM	251	mg/dL	1	0.40	
536	11/28/2021 11:52:17 AM	261	mg/dL	11	4.26	
537	11/29/2021 7:09:36 AM	266	mg/dL	16	6.48	
538	11/30/2021 6:46:28 AM	265	mg/dL	15	6.08	

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	99	mg/dL	4.2		86-111

n	Date	Result	Unit	ABS Err	REL error %	Alarms
512	11/10/2021 8:06:50 AM	93	mg/dL	-6	-5.61	
525	11/22/2021 6:27:36 PM	103	mg/dL	5	4.89	
527	11/23/2021 6:59:06 PM	99	mg/dL	1	0.51	
528	11/24/2021 7:38:45 AM	101	mg/dL	3	2.54	
529	11/24/2021 10:33:12 AM	98	mg/dL	-1	-0.51	
530	11/24/2021 12:14:34 PM	100	mg/dL	2	1.52	
531	11/25/2021 8:01:30 AM	91	mg/dL	-8	-7.73	
533	11/26/2021 5:27:10 PM	95	mg/dL	-4	-3.55	
539	11/30/2021 12:01:53 PM	88	mg/dL	-11	-10.68	1-2s



## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
UREA-BUN-UV	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	105	mg/dL	5.7		88-122

n	Date	Result	Unit	ABS Err	REL error %	Alarms
642	11/1/2021 7:47:28 AM	106	mg/dL	1	1.38	
644	11/2/2021 8:22:10 AM	118	mg/dL	13	12.76	1-2s
646	11/3/2021 7:47:25 AM	113	mg/dL	8	7.35	
648	11/4/2021 7:54:15 AM	114	mg/dL	9	8.32	
650	11/5/2021 7:14:00 AM	115	mg/dL	10	9.17	
652	11/6/2021 7:05:52 AM	110	mg/dL	5	4.48	
654	11/7/2021 7:02:17 AM	114	mg/dL	9	9.00	
656	11/8/2021 7:07:59 AM	120	mg/dL	15	14.62	1-2s
657	11/9/2021 6:55:13 AM	113	mg/dL	8	7.38	
660	11/11/2021 6:54:04 AM	100	mg/dL	-5	-4.40	
662	11/12/2021 7:11:23 AM	112	mg/dL	7	7.05	
664	11/13/2021 7:39:44 AM	110	mg/dL	5	4.52	
666	11/14/2021 5:47:27 AM	116	mg/dL	11	10.44	
668	11/15/2021 7:18:36 AM	116	mg/dL	11	10.43	
670	11/16/2021 8:23:31 AM	116	mg/dL	11	10.70	
672	11/17/2021 7:52:19 AM	115	mg/dL	10	9.74	
674	11/18/2021 7:39:23 AM	111	mg/dL	6	5.49	
676	11/19/2021 8:13:56 AM	111	mg/dL	6	5.85	
678	11/20/2021 7:07:42 AM	111	mg/dL	6	5.57	
680	11/21/2021 7:59:40 AM	113	mg/dL	8	7.49	
681	11/22/2021 7:10:09 AM	112	mg/dL	7	6.35	
683	11/23/2021 7:54:32 AM	114	mg/dL	9	8.59	
687	11/26/2021 6:29:10 AM	101	mg/dL	-4	-3.81	
689	11/27/2021 7:12:16 AM	111	mg/dL	6	5.71	
690	11/28/2021 6:46:05 AM	112	mg/dL	7	6.67	
691	11/28/2021 11:52:35 AM	112	mg/dL	7	6.67	
692	11/29/2021 7:09:54 AM	106	mg/dL	1	0.95	
694	11/30/2021 6:46:46 AM	113	mg/dL	8	7.62	

695 11/30/2021 9:47:26 AM 112 mg/dL 7 6.67

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	44	mg/dL	2.2		37-50

n	Date	Result	Unit	ABS Err	REL error %	Alarms
643	11/1/2021 1:57:15 PM	45	mg/dL	2	3.52	
645	11/2/2021 2:44:30 PM	47	mg/dL	3	7.91	
647	11/3/2021 4:14:50 PM	45	mg/dL	2	4.01	
649	11/4/2021 5:26:29 PM	44	mg/dL	0	1.07	
651	11/5/2021 4:45:56 PM	43	mg/dL	0	-0.35	
653	11/6/2021 5:11:14 PM	43	mg/dL	0	-0.68	
655	11/7/2021 8:12:36 PM	48	mg/dL	4	9.21	
658	11/9/2021 4:40:45 PM	45	mg/dL	2	4.37	
659	11/10/2021 8:06:50 AM	46	mg/dL	3	6.68	
661	11/11/2021 5:26:07 PM	47	mg/dL	4	8.48	
663	11/12/2021 9:04:53 PM	48	mg/dL	4	10.08	1-2s
665	11/13/2021 2:58:37 PM	46	mg/dL	2	5.22	
667	11/14/2021 4:46:05 PM	48	mg/dL	5	10.83	1-2s
669	11/15/2021 6:36:34 PM	46	mg/dL	2	5.37	
671	11/16/2021 8:49:28 PM	46	mg/dL	2	5.02	
673	11/17/2021 5:32:45 PM	47	mg/dL	3	7.71	
675	11/18/2021 5:44:48 PM	46	mg/dL	3	6.48	
677	11/19/2021 6:45:53 PM	47	mg/dL	3	7.52	
679	11/20/2021 6:53:27 PM	48	mg/dL	4	10.17	1-2s
682	11/22/2021 6:27:36 PM	45	mg/dL	1	2.69	
684	11/23/2021 6:59:07 PM	45	mg/dL	1	2.56	
685	11/24/2021 7:38:45 AM	45	mg/dL	2	4.36	
686	11/25/2021 8:01:30 AM	42	mg/dL	-1	-2.98	
688	11/26/2021 5:27:10 PM	43	mg/dL	0	-0.65	
693	11/29/2021 8:37:15 PM	43	mg/dL	-1	-1.15	
696	11/30/2021 12:02:11 PM	45	mg/dL	2	3.45	
697	11/30/2021 7:17:20 PM	40	mg/dL	-4	-9.15	

## Results by test/sample type

Test name	Sample type	Calculation mode	Dates
URIC ACID	SER	Manual	11/1/2021 - 11/30/2021

## Controls

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANDOX L3	1069UE	8.95	mg/dL	0.383		7.80-10.10

n	Date	Result	Unit	ABS Err	REL error %	Alarms
501	11/1/2021 7:46:52 AM	9.17	mg/dL	0.22	2.41	
502	11/2/2021 8:21:16 AM	9.41	mg/dL	0.46	5.11	
503	11/3/2021 7:46:31 AM	8.96	mg/dL	0.01	0.10	
504	11/4/2021 7:53:21 AM	8.94	mg/dL	-0.01	-0.14	
505	11/5/2021 7:13:05 AM	9.09	mg/dL	0.14	1.55	
506	11/6/2021 7:04:58 AM	8.66	mg/dL	-0.29	-3.22	
507	11/7/2021 7:01:41 AM	9.61	mg/dL	0.66	7.35	
508	11/8/2021 7:07:41 AM	9.22	mg/dL	0.27	3.04	
509	11/9/2021 6:54:37 AM	8.72	mg/dL	-0.23	-2.53	
511	11/11/2021 6:53:28 AM	8.76	mg/dL	-0.19	-2.16	
512	11/12/2021 7:11:04 AM	9.29	mg/dL	0.34	3.84	
513	11/13/2021 7:39:08 AM	9.28	mg/dL	0.33	3.64	
514	11/14/2021 5:46:33 AM	9.16	mg/dL	0.21	2.37	
515	11/15/2021 7:17:42 AM	9.05	mg/dL	0.10	1.16	
516	11/16/2021 8:22:37 AM	9.41	mg/dL	0.46	5.13	
517	11/17/2021 7:51:25 AM	9.37	mg/dL	0.42	4.74	
518	11/18/2021 7:38:29 AM	9.54	mg/dL	0.59	6.55	
519	11/19/2021 8:13:01 AM	9.32	mg/dL	0.37	4.18	
520	11/20/2021 7:06:48 AM	9.53	mg/dL	0.58	6.48	
521	11/21/2021 7:58:46 AM	9.84	mg/dL	0.89	9.99	1-2s
522	11/22/2021 7:09:14 AM	9.46	mg/dL	0.51	5.73	
524	11/23/2021 7:53:38 AM	9.21	mg/dL	0.26	2.91	
528	11/26/2021 6:28:15 AM	9.61	mg/dL	0.66	7.37	
530	11/27/2021 7:11:21 AM	8.99	mg/dL	0.04	0.45	
531	11/28/2021 6:44:53 AM	9.58	mg/dL	0.63	7.04	
532	11/28/2021 11:51:23 AM	9.69	mg/dL	0.74	8.27	
533	11/29/2021 7:08:42 AM	9.51	mg/dL	0.56	6.26	
534	11/30/2021 6:45:34 AM	9.02	mg/dL	0.07	0.78	

535 11/30/2021 9:46:14 AM 9.07 mg/dL 0.12 1.34

Name	Lot number	Mean	Unit	SD	CV	Ranges
RANODX L2	1390UN	5.75	mg/dL	0.250		5.00-6.50

n	Date	Result	Unit	ABS Err	REL error %	Alarms
510	11/10/2021 8:06:14 AM	5.62	mg/dL	-0.13	-2.22	
523	11/22/2021 6:26:42 PM	6.00	mg/dL	0.25	4.35	
525	11/23/2021 6:58:12 PM	5.46	mg/dL	-0.29	-5.12	
526	11/24/2021 7:37:51 AM	5.57	mg/dL	-0.18	-3.09	
527	11/25/2021 8:00:36 AM	5.76	mg/dL	0.01	0.13	
529	11/26/2021 5:26:16 PM	5.80	mg/dL	0.05	0.92	
536	11/30/2021 12:00:59 PM	5.41	mg/dL	-0.34	-5.89	