

BioSystems

human - centred biotech

Registered office
BioSystems Diagnostics Pvt. Ltd.,
A4, SIPCOT Industrial Park, Irungalkottai,
Tamil Nadu - 602105, India
Ph: +91 44 30341911 / 12 / 13 / 14
Email: support@biosystems.in
CIN - U20207TN2003PTC051492

BA400 – Fully Auto Biochemistry Analyser

Installation Qualification Certificate

For

***CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL
SCIENCES, BANARAS HINDU UNIVERSITY
VARANASI***

BioSystems Diagnostics Pvt. Ltd

BioSystems S.A.
Costa Brava 30,
08030 Barcelona (Spain)
t. +34 933 110 000

www.biosystems.in
www.biosystems-global



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CERTIFICATE OF INSTALLATION

Instrument Name: BA400 Fully Auto Biochemistry Analyzer

Serial Number : 834002703

Customer : CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES,
BANARAS HINDU UNIVERSITY, VARANASI

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

Authorized Signatory

KRUNAL GORDHANBHAI MADHU
Digitally signed by KRUNAL GORDHANBHAI MADHU
DN: cn=KRUNAL GORDHANBHAI MADHU, o=PERSONAL, email=krunalmadhu@biosystems.in
Date: 2023.07.08 17:01:09 +05'30'

Name

: Mr. Rohit Singh

Designation

: Service Engineer

Company

: BioSystems Diagnostics Pvt. Ltd.,

Customer Signature

Name

: Dr. S.P. Mishra

Designation

: Prof. Incharge

Company

: CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES, BANARAS
HINDU UNIVERSITY, VARANASI

INSTALLATION REPORT

Customer Name : CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES, BANARAS HINDU
UNIVERSITY, VARANASI

Department : Bio-chemistry
Contact Person : Dr. S.P. Mishra
Instrument Model : BA400
Serial Number : 834002703
Date of Installation : 03/04/2023

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.

SP
3/7/2023

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Registered office:

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AA, SIPCOT Industrial Park, Irungattukottai,
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Ph: +91 44 30341011 / 12 / 13 / 14
Email: support@biosystems.in
CIN - U20207TN2003PTC051492

INSTRUMENT SETUP :

- Instrument and computer installed
- Printer Installed
- User software 5.7.1.0 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

KRUNAL
GORDHANBHAI
MADHU

Digitally signed by KRUNAL
GORDHANBHAI MADHU
DN: cn=KRUNAL GORDHANBHAI
MADHU, c=IN, o=PERSONAL,
email=krunalmadhu@biosystems.in
Date: 2023.07.08 17:01:26 +05'30'

Mr. Rohit Singh
Service Engineer



INSTALLATION QUALIFICATION

Customer Name : CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES, BANARAS
HINDU UNIVERSITY, VARANASI

Address : CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF
MEDICAL SCIENCES, BANARAS HINDU
UNIVERSITY, VARANASI

Instrument Model : BA400

Serial No. : 834002703

Operational requirement for the Instrument:

Requirement	Acceptable Range	Observed Range
Input Voltage	220 \pm 10 V	221 V
Line Frequency	50 or 60 Hz	50 Hz
Ambient Temperature	18 - 30 deg. C	23 deg. C
Distill Water	Type II NCCLS	Available

For Biosystems Diagnostics Pvt. Ltd

KRUNAL
GORDHANBHAI
MADHU
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GORDHANBHAI MADHU
DN: cn=GORDHANBHAI MADHU, o=BIOSYSTEMS
INDIA, email=krunal@biosystems.in
Date: 2023.07.08 17:01:37 +05'30'

Mr. Rohit Singh
Service Engineer

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A4, SIPCOT Industrial Park, Irungattukottai,
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Ph: +91 -44 - 30341911 / 12 / 13 / 14
Email: support@biosystems.in
CIN - U29297TN2003PTC051492

BA400 - Fully Auto Biochemistry Analyzer

Operational Qualification

For

***CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL
SCIENCES, BANARAS HINDU UNIVERSITY
VARANASI***

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CIN - U29297TN2003PTC051492

BA400 – Fully Auto Biochemistry Analyzer

OPERATIONAL QUALIFICATION

1. System Decontamination
2. Maintenance Procedures
3. System Performance check procedures
4. Customer Training Operation and Maintenance

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System Decontamination

Users carrying out disinfection processes must wear gloves and protective apparel. All consumable materials (reaction rotor, reagent bottles and sample tubes) will be treated as potentially infectious waste.

Check whether there are any reaction rotors in their compartments or reagent bottles in the refrigerator. If there are, dispose of them.

Clean the fluidics of the instrument with 5% Hypo chloride.

Empty the high contamination waste tank and washing solution tank periodically.

Wash the inside of the equipment using a damp cloth and neutral soap. If there are splashes, wash them with alcohol

Follow the applicable national guidelines for disposing of waste that is considered potentially infectious.

Maintenance Procedures

Activities at the start of the day

- 1 Replenish the washing solution bottle.
- 2 Initialise the analyser. Perform the warm-up with the programme.
- 3 Perform 2 conditioning cycles (only when the analyser has been switched off for several days).
- 4 Check the temperature of the reaction rotor and the reagent rotor.
- 5 Check the reagent volume.
- 6 Calibrate the ISE module peristaltic pumps.
- 7 Calibrate the ISE electrodes.

Activities at the end of the day

- 1 Wash the ISE module.
- 2 Switch off the analyser by executing the Shut-down with the program.
- 3 Empty the high contamination bottle.
- 4 Remove the calibration solutions, controls and samples from the sample rotor.

Activities to be executed every week

- 1 Change the reaction rotor.
- 2 Calibrate the ISE module air bubble detector.
- 3 Clean the ISE module inlet cup with a cotton bud.
- 4 Clean the working surface.
- 5 Clean the interior of the samples and reagents rotor vessel.
- 6 Check the capacity of the ISE module reagent pack and replace it, if used up.
- 7 Rinse the ISE module waste tubes with distilled water.
- 8 Clean the stirrer paddle with a cloth soaked in washing solution.

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CIN - U29207TN2003PTC051492

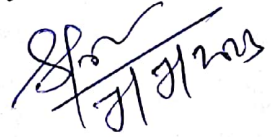
CERTIFICATE OF OPERATION

Instrument Name : BA400 Fully Auto Biochemistry Analyzer
Serial Number : 834002703
Customer : CENTER FOR CLINICAL INVESTIGATIONS,
SIR SUNDERLAL HOSPITAL, INSTITUTE OF
MEDICAL SCIENCES, BANARAS HINDU
UNIVERSITY, VARANASI - VARANASI

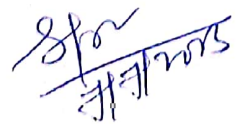
The undersigned performer certifies that the Operational Qualification Protocol has been successfully completed for the instrument stated above.

Authorized Signatory : KRUNAL GORDHANBHAI MADHU
Name : Mr. Rohit Singh
Designation : Service Engineer
Company : BioSystems Diagnostics Pvt. Ltd

Digitally signed by KRUNAL GORDHANBHAI MADHU
DN: cn=KRUNAL GORDHANBHAI MADHU, c=IN, o=PERSONAL, email=krunalmadhu@biosystems.in
Date: 2023.07.06 17:01:52 +05'30'



Customer Signature :
Name : Dr. S.P. Mishra
Designation : Prof. Incharge
Company : CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES, BANARAS HINDU
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Email: support@biosystems.in
CIN - U29297TN2003PTC051492

SYSTEM PERFORMANCE CHECK PROCEDURE

SYSTEM CHECK	PERFORMANCE
LED Photometric Check	Done
Warm Up	Done
Mechanical Adjustments	Done
Temperature Check	Done
Internal/External Dosing Check	Done

Customer Signature:

Sfor
31/01/2023

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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. Rohit Singh
Title : Service Engineer
Company : Biosystems Diagnostics Pvt Ltd

Customer Authorization: CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES, BANARAS HINDU
UNIVERSITY, VARANASI


Name : Dr. S.P. Mishra
Title : Prof. Incharge

KRUNAL
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MADHU
Digitally signed by KRUNAL
GORDHANBHAI MADHU
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MADHU, c=IN, o=PERSONAL,
email=krunalmadhu@biosystems.in
Date: 2023.07.06 17:02:03 +05'30'

AUTHORIZED SIGNATORY

DATE:




CUSTOMER SIGNATURE
DATE:

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Email: support@biosystems.in
CIN - U29207TN2003PTC051492

BA400 - Fully Auto Bio Chemistry Analyzer

Performance Qualification

For

***CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL
SCIENCES, BANARAS HINDU
UNIVERSITY, VARANASI
VARANASI***

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BA400 Fully Auto Biochemistry Analyzer

PERFORMANCE QUALIFICATION:

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

S.No	Measurement at 505 nm wavelength	Parameters	Result	Limit
1	Repeatability measured at 0 Abs	Standard Deviation	0.0001	< 0.0002 Abs
2	Stability measured at 0 Abs	Range	0.0006	< 0.0015 Abs
3	-	Darkness count	4052	1000 - 6000

Precision was checked for following parameters

PARAMETERS	INTRA RUN PRECISION	INTER RUN PRECISION
GLUCOSE	1.3%	3.4%
UREA	1.1%	2.9%
ALP	1.2%	0.8%
ALB	1.5%	0.33%
ALT	0.9%	3.7%
AST	0.9%	2.0%
BILI-D	0.01%	2.5%
BILI-T	0.01%	1.8%
CHOL-HDL	2.1%	2.6%
CHOL-LDL	1.5%	1.3%
CHOL	0.9%	0.3%

PROT	0.4%	0.6%
TRIG	1.8%	0.9%
U-ACID	0.2%	0.4%

CERTIFICATE OF PERFORMANCE

Instrument Name : BA400 Fully Auto Biochemistry Analyzer

Serial Number : 834002703

Customer : CENTER FOR CLINICAL INVESTIGATIONS, SIR
SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES, BANARAS
HINDU UNIVERSITY, VARANASI - VARANASI


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

Authorized Signatory Name : Mr. Rohit Singh
Designation : Service Engineer
Company : BioSystems Diagnostics Pvt Ltd.,

KRUNAL
GORDHANBHAI
MADHU

Digitally signed by KRUNAL
GORDHANBHAI MADHU
DN: cn=KRUNAL GORDHANBHAI
MADHU, c=IN, o=PERSONAL,
email=krunalmadhu@biosystems.in
Date: 2023.07.06 17:02:16 +05'30'



Customer Signature : 
Name : Dr. S.P. Mishra
Designation : Prof. Incharge
Company : CENTER FOR CLINICAL INVESTIGATIONS,
SIR SUNDERLAL HOSPITAL, INSTITUTE OF MEDICAL SCIENCES,
BANARAS HINDU UNIVERSITY - VARANASI

17-May-2023 11:48 AM

Patient ID **PRECISION L1**

Tests	Type	No. Abs.	Result	Unit	Ref. ranges	Date
ALBUMIN	SER	1.1438	4.28	g/dL		17-May-2023 12:13 PM
		1 1.1476	4.30	g/dL		17-May-2023 12:11 PM
		2 1.1473	4.30	g/dL		17-May-2023 12:12 PM
		3 1.1453	4.29	g/dL		17-May-2023 12:12 PM
		4 1.1400	4.27	g/dL		17-May-2023 12:12 PM
		5 1.1444	4.29	g/dL		17-May-2023 12:12 PM
		6 1.1454	4.29	g/dL		17-May-2023 12:12 PM
		7 1.1476	4.30	g/dL		17-May-2023 12:12 PM
		8 1.1371	4.26	g/dL		17-May-2023 12:13 PM
		9 1.1398	4.27	g/dL		17-May-2023 12:13 PM
10 1.1443	4.29	g/dL		17-May-2023 12:13 PM		
ALP-DGKC	SER	0.0584	148	U/L		17-May-2023 12:07 PM
		1 0.0582	148	U/L		17-May-2023 12:06 PM
		2 0.0581	147	U/L		17-May-2023 12:06 PM
		3 0.0578	146	U/L		17-May-2023 12:06 PM
		4 0.0581	147	U/L		17-May-2023 12:06 PM
		5 0.0587	149	U/L		17-May-2023 12:06 PM
		6 0.0581	147	U/L		17-May-2023 12:07 PM
		7 0.0587	149	U/L		17-May-2023 12:07 PM
		8 0.0581	147	U/L		17-May-2023 12:07 PM
		9 0.0589	149	U/L		17-May-2023 12:07 PM
10 0.0591	150	U/L		17-May-2023 12:07 PM		
ALT-GPT	SER	0.0159	25.7	U/L		17-May-2023 01:25 PM
		1 0.0162	26.3	U/L		17-May-2023 01:23 PM
		2 0.0153	24.7	U/L		17-May-2023 01:23 PM

SP
4/7/2023

17-May-2023 11:48 AM

AST-GOT

SER

3	0.0165	26.8	U/L
4	0.0159	25.7	U/L
5	0.0148	23.9	U/L
6	0.0164	26.6	U/L
7	0.0156	25.2	U/L
8	0.0165	26.8	U/L
9	0.0156	25.2	U/L
10	0.0159	25.7	U/L

17-May-2023 01:23 PM
17-May-2023 01:24 PM
17-May-2023 01:24 PM
17-May-2023 01:24 PM
17-May-2023 01:24 PM
17-May-2023 01:24 PM
17-May-2023 01:24 PM
17-May-2023 01:24 PM

BILIRUBIN DIRECT

SER

1	0.0260	48.5	U/L
2	0.0261	48.8	U/L
3	0.0259	48.4	U/L
4	0.0257	48.0	U/L
5	0.0255	47.6	U/L
6	0.0254	47.5	U/L
7	0.0253	47.2	U/L
8	0.0243	45.4	U/L
9	0.0259	48.5	U/L
10	0.0257	48.0	U/L
1	0.0364	0.42	mg/dL
2	0.0355	0.41	mg/dL
3	0.0349	0.41	mg/dL
4	0.0353	0.41	mg/dL
5	0.0341	0.40	mg/dL
6	0.0347	0.40	mg/dL
7	0.0356	0.41	mg/dL

17-May-2023 01:25 PM
17-May-2023 01:23 PM
17-May-2023 01:22 PM
17-May-2023 01:22 PM
17-May-2023 01:22 PM
17-May-2023 01:22 PM
17-May-2023 01:23 PM
17-May-2023 01:23 PM
17-May-2023 01:23 PM
17-May-2023 01:23 PM
17-May-2023 01:23 PM
17-May-2023 01:23 PM
17-May-2023 01:04 PM
17-May-2023 01:03 PM
17-May-2023 01:03 PM
17-May-2023 01:03 PM
17-May-2023 01:03 PM
17-May-2023 01:03 PM
17-May-2023 01:04 PM
17-May-2023 01:04 PM

Handwritten signature and date: 17/5/2023

17-May-2023 11:48 AM

BILIRUBIN TOTAL	SER	8	0.0351	0.41	mg/dL	17-May-2023 01:04 PM
		9	0.0373	0.43	mg/dL	17-May-2023 01:04 PM
		10	0.0372	0.43	mg/dL	17-May-2023 01:04 PM
			0.0757	0.93	mg/dL	17-May-2023 01:03 PM
		1	0.0768	0.95	mg/dL	17-May-2023 01:01 PM
		2	0.0779	0.96	mg/dL	17-May-2023 01:02 PM
		3	0.0760	0.94	mg/dL	17-May-2023 01:02 PM
		4	0.0745	0.92	mg/dL	17-May-2023 01:02 PM
		5	0.0747	0.92	mg/dL	17-May-2023 01:02 PM
		6	0.0747	0.92	mg/dL	17-May-2023 01:02 PM
CHOL HDL DIRECT	SER	7	0.0770	0.95	mg/dL	17-May-2023 01:02 PM
		8	0.0763	0.94	mg/dL	17-May-2023 01:02 PM
		9	0.0754	0.93	mg/dL	17-May-2023 01:03 PM
		10	0.0739	0.91	mg/dL	17-May-2023 01:03 PM
			0.3307	80.9	mg/dL	17-May-2023 12:34 PM
		1	0.3447	84.3	mg/dL	17-May-2023 12:32 PM
		2	0.3317	81.1	mg/dL	17-May-2023 12:32 PM
		3	0.3362	82.2	mg/dL	17-May-2023 12:32 PM
		4	0.3418	83.6	mg/dL	17-May-2023 12:33 PM
		5	0.3254	79.6	mg/dL	17-May-2023 12:33 PM
CHOL LDL DIRECT	SER	6	0.3272	80.0	mg/dL	17-May-2023 12:33 PM
		7	0.3201	78.3	mg/dL	17-May-2023 12:33 PM
		8	0.3197	78.2	mg/dL	17-May-2023 12:33 PM
		9	0.3253	79.5	mg/dL	17-May-2023 12:34 PM
		10	0.3351	82.0	mg/dL	17-May-2023 12:34 PM
			0.3222	118	mg/dL	17-May-2023 12:31 PM
		1	0.3285	121	mg/dL	17-May-2023 12:29 PM

SP
27/5/2023



17-May-2023 11:48 AM

		2	0.3257	120	mg/dL	17-May-2023 12:29 PM
		3	0.3181	117	mg/dL	17-May-2023 12:29 PM
		4	0.3197	117	mg/dL	17-May-2023 12:30 PM
		5	0.3170	116	mg/dL	17-May-2023 12:30 PM
		6	0.3195	117	mg/dL	17-May-2023 12:30 PM
		7	0.3233	119	mg/dL	17-May-2023 12:30 PM
		8	0.3216	118	mg/dL	17-May-2023 12:30 PM
		9	0.3234	119	mg/dL	17-May-2023 12:30 PM
		10	0.3253	119	mg/dL	17-May-2023 12:31 PM
CHOLESTEROL	SER		0.5188	246	mg/dL	17-May-2023 12:09 PM
		1	0.5213	247	mg/dL	17-May-2023 12:07 PM
		2	0.5181	246	mg/dL	17-May-2023 12:08 PM
		3	0.5188	246	mg/dL	17-May-2023 12:08 PM
		4	0.5214	247	mg/dL	17-May-2023 12:08 PM
		5	0.5154	244	mg/dL	17-May-2023 12:08 PM
		6	0.5192	246	mg/dL	17-May-2023 12:08 PM
		7	0.5192	246	mg/dL	17-May-2023 12:08 PM
		8	0.5208	247	mg/dL	17-May-2023 12:08 PM
		9	0.5176	245	mg/dL	17-May-2023 12:09 PM
		10	0.5166	245	mg/dL	17-May-2023 12:09 PM
CREATININE	SER		0.0263	2.07	mg/dL	17-May-2023 01:26 PM
		1	0.0282	2.22	mg/dL	17-May-2023 01:23 PM
		2	0.0283	2.22	mg/dL	17-May-2023 01:23 PM
		3	0.0267	2.10	mg/dL	17-May-2023 01:23 PM
		4	0.0252	1.98	mg/dL	17-May-2023 01:23 PM
		5	0.0277	2.18	mg/dL	17-May-2023 01:24 PM
		6	0.0260	2.04	mg/dL	17-May-2023 01:24 PM

SPOR
4/27/2023



17-May-2023 11:48 AM

		7	0.0271	2.13	mg/dL	17-May-2023 01:24 PM
		8	0.0262	2.05	mg/dL	17-May-2023 01:26 PM
		9	0.0245	1.92	mg/dL	17-May-2023 01:26 PM
		10	0.0234	1.83	mg/dL	17-May-2023 01:26 PM
GLUCOSE	SER		0.0113	65.1	mg/dL	17-May-2023 12:56 PM
		1	0.0111	64.1	mg/dL	17-May-2023 12:55 PM
		2	0.0114	65.8	mg/dL	17-May-2023 12:55 PM
		3	0.0114	65.7	mg/dL	17-May-2023 12:55 PM
		4	0.0116	67.1	mg/dL	17-May-2023 12:55 PM
		5	0.0117	67.5	mg/dL	17-May-2023 12:55 PM
		6	0.0112	64.4	mg/dL	17-May-2023 12:55 PM
		7	0.0109	62.7	mg/dL	17-May-2023 12:56 PM
		8	0.0119	68.7	mg/dL	17-May-2023 12:56 PM
		9	0.0110	63.1	mg/dL	17-May-2023 12:56 PM
		10	0.0108	62.0	mg/dL	17-May-2023 12:56 PM
PROTEIN TOTALBIR	SER		0.3011	7.33	g/dL	17-May-2023 12:08 PM
		1	0.3034	7.41	g/dL	17-May-2023 12:07 PM
		2	0.3021	7.37	g/dL	17-May-2023 12:07 PM
		3	0.3013	7.34	g/dL	17-May-2023 12:07 PM
		4	0.3008	7.32	g/dL	17-May-2023 12:07 PM
		5	0.3030	7.40	g/dL	17-May-2023 12:07 PM
		6	0.2999	7.29	g/dL	17-May-2023 12:07 PM
		7	0.2998	7.29	g/dL	17-May-2023 12:07 PM
		8	0.2995	7.28	g/dL	17-May-2023 12:08 PM
		9	0.3010	7.33	g/dL	17-May-2023 12:08 PM
		10	0.3005	7.31	g/dL	17-May-2023 12:08 PM
TRIGLYCERIDES	SER		0.3353	192	mg/dL	17-May-2023 12:10 PM

Handwritten signature and date: 5/17/2023



17-May-2023 11:48 AM

		1	0.3355	192	mg/dL	17-May-2023 12:09 PM
		2	0.3340	191	mg/dL	17-May-2023 12:09 PM
		3	0.3367	193	mg/dL	17-May-2023 12:09 PM
		4	0.3345	192	mg/dL	17-May-2023 12:10 PM
		5	0.3381	194	mg/dL	17-May-2023 12:10 PM
		6	0.3401	196	mg/dL	17-May-2023 12:10 PM
		7	0.3332	190	mg/dL	17-May-2023 12:10 PM
		8	0.3325	190	mg/dL	17-May-2023 12:10 PM
		9	0.3342	191	mg/dL	17-May-2023 12:10 PM
		10	0.3342	191	mg/dL	17-May-2023 12:10 PM
UREA-BUN-UV	SER		0.0553	29.6	mg/dL	17-May-2023 12:07 PM
		1	0.0523	27.8	mg/dL	17-May-2023 12:06 PM
		2	0.0559	30.0	mg/dL	17-May-2023 12:06 PM
		3	0.0566	30.4	mg/dL	17-May-2023 12:06 PM
		4	0.0546	29.2	mg/dL	17-May-2023 12:06 PM
		5	0.0546	29.2	mg/dL	17-May-2023 12:07 PM
		6	0.0571	30.7	mg/dL	17-May-2023 12:07 PM
		7	0.0555	29.7	mg/dL	17-May-2023 12:07 PM
		8	0.0562	30.2	mg/dL	17-May-2023 12:07 PM
		9	0.0539	28.8	mg/dL	17-May-2023 12:07 PM
		10	0.0558	29.9	mg/dL	17-May-2023 12:07 PM
URIC ACID	SER		0.1616	4.98	mg/dL	17-May-2023 12:12 PM
		1	0.1614	4.97	mg/dL	17-May-2023 12:11 PM
		2	0.1627	5.03	mg/dL	17-May-2023 12:11 PM
		3	0.1621	5.00	mg/dL	17-May-2023 12:11 PM
		4	0.1615	4.98	mg/dL	17-May-2023 12:11 PM
		5	0.1620	5.00	mg/dL	17-May-2023 12:11 PM

Handwritten signature and date: 7/7/2023



				17-May-2023 11:48 AM
6	0.1617	4.98	mg/dL	17-May-2023 12:11 PM
7	0.1611	4.96	mg/dL	17-May-2023 12:11 PM
8	0.1611	4.96	mg/dL	17-May-2023 12:12 PM
9	0.1609	4.95	mg/dL	17-May-2023 12:12 PM
10	0.1617	4.98	mg/dL	17-May-2023 12:12 PM

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7/7/2023

17-May-2023 11:48 AM

Patient ID

PRECISION L2

Tests	Type	No. Abs.	Result	Unit	Ref. ranges	Date
ALBUMIN	SER	0.8590	3.13	g/dL		17-May-2023 12:33 PM
		1 0.8567	3.12	g/dL		17-May-2023 12:31 PM
		2 0.8596	3.13	g/dL		17-May-2023 12:31 PM
		3 0.8618	3.14	g/dL		17-May-2023 12:32 PM
		4 0.8620	3.14	g/dL		17-May-2023 12:32 PM
		5 0.8577	3.13	g/dL		17-May-2023 12:32 PM
		6 0.8549	3.12	g/dL		17-May-2023 12:32 PM
		7 0.8553	3.12	g/dL		17-May-2023 12:32 PM
		8 0.8577	3.13	g/dL		17-May-2023 12:32 PM
		9 0.8628	3.15	g/dL		17-May-2023 12:32 PM
ALP-DGKC	SER	0.2065	552	U/L		17-May-2023 12:22 PM
		1 0.2078	555	U/L		17-May-2023 12:21 PM
		2 0.2088	558	U/L		17-May-2023 12:21 PM
		3 0.2060	550	U/L		17-May-2023 12:21 PM
		4 0.2070	553	U/L		17-May-2023 12:22 PM
		5 0.2065	552	U/L		17-May-2023 12:22 PM
		6 0.2057	550	U/L		17-May-2023 12:22 PM
		7 0.2058	550	U/L		17-May-2023 12:22 PM
		8 0.2054	549	U/L		17-May-2023 12:22 PM
		9 0.2063	551	U/L		17-May-2023 12:22 PM
ALT-GPT	SER	0.0545	93.6	U/L		17-May-2023 01:31 PM
		1 0.0527	90.4	U/L		17-May-2023 01:29 PM
		2 0.0546	93.7	U/L		17-May-2023 01:29 PM

Handwritten signature and date: 7/7/23



17-May-2023 11:48 AM

AST-GOT

SER	Value	Unit	Time
3	0.0550	94.5 U/L	17-May-2023 01:30 PM
4	0.0551	94.6 U/L	17-May-2023 01:30 PM
5	0.0546	93.8 U/L	17-May-2023 01:30 PM
6	0.0548	94.1 U/L	17-May-2023 01:30 PM
7	0.0545	93.6 U/L	17-May-2023 01:30 PM
8	0.0553	95.0 U/L	17-May-2023 01:30 PM
9	0.0544	93.4 U/L	17-May-2023 01:31 PM
10	0.0542	93.0 U/L	17-May-2023 01:31 PM
SER	0.1217	230.6 U/L	17-May-2023 01:29 PM
1	0.1203	228.0 U/L	17-May-2023 01:28 PM
2	0.1196	226.6 U/L	17-May-2023 01:28 PM
3	0.1204	228.1 U/L	17-May-2023 01:28 PM
4	0.1209	229.0 U/L	17-May-2023 01:28 PM
5	0.1243	235.5 U/L	17-May-2023 01:29 PM
6	0.1234	233.9 U/L	17-May-2023 01:29 PM
7	0.1231	233.3 U/L	17-May-2023 01:29 PM
8	0.1231	233.3 U/L	17-May-2023 01:29 PM
9	0.1214	230.0 U/L	17-May-2023 01:29 PM
10	0.1204	228.1 U/L	17-May-2023 01:29 PM

BILIRUBIN DIRECT

SER	Value	Unit	Time
SER	0.1107	1.30 mg/dL	17-May-2023 01:07 PM
1	0.1102	1.30 mg/dL	17-May-2023 01:06 PM
2	0.1087	1.28 mg/dL	17-May-2023 01:06 PM
3	0.1092	1.29 mg/dL	17-May-2023 01:06 PM
4	0.1107	1.30 mg/dL	17-May-2023 01:06 PM
5	0.1084	1.28 mg/dL	17-May-2023 01:06 PM
6	0.1101	1.30 mg/dL	17-May-2023 01:07 PM
7	0.1106	1.30 mg/dL	17-May-2023 01:07 PM

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BILIRUBIN TOTAL

SER	Value 1	Value 2	Unit	Time
8	0.1097	1.29	mg/dL	17-May-2023 11:48 AM
9	0.1102	1.30	mg/dL	17-May-2023 01:07 PM
10	0.1187	1.40	mg/dL	17-May-2023 01:07 PM
SER	0.3313	4.13	mg/dL	17-May-2023 01:07 PM
1	0.3318	4.13	mg/dL	17-May-2023 01:29 PM
2	0.3241	4.04	mg/dL	17-May-2023 01:27 PM
3	0.3325	4.14	mg/dL	17-May-2023 01:28 PM
4	0.3338	4.16	mg/dL	17-May-2023 01:28 PM
5	0.3314	4.13	mg/dL	17-May-2023 01:28 PM
6	0.3331	4.15	mg/dL	17-May-2023 01:28 PM
7	0.3293	4.10	mg/dL	17-May-2023 01:28 PM
8	0.3310	4.12	mg/dL	17-May-2023 01:28 PM
9	0.3297	4.11	mg/dL	17-May-2023 01:29 PM
10	0.3363	4.19	mg/dL	17-May-2023 01:29 PM

CHOL HDL DIRECT

SER	Value 1	Value 2	Unit	Time
SER	0.0786	19.2	mg/dL	17-May-2023 12:20 PM
1	0.0846	20.6	mg/dL	17-May-2023 12:19 PM
2	0.0808	19.7	mg/dL	17-May-2023 12:19 PM
3	0.0793	19.3	mg/dL	17-May-2023 12:19 PM
4	0.0775	18.9	mg/dL	17-May-2023 12:19 PM
5	0.0769	18.8	mg/dL	17-May-2023 12:19 PM
6	0.0785	19.2	mg/dL	17-May-2023 12:20 PM
7	0.0779	19.0	mg/dL	17-May-2023 12:20 PM
8	0.0756	18.4	mg/dL	17-May-2023 12:20 PM
9	0.0764	18.6	mg/dL	17-May-2023 12:20 PM
10	0.0783	19.1	mg/dL	17-May-2023 12:20 PM

CHOL LDL DIRECT

SER	Value 1	Value 2	Unit	Time
SER	0.1317	48	mg/dL	17-May-2023 12:22 PM
1	0.1327	48	mg/dL	17-May-2023 12:20 PM

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		2	0.1318	48	mg/dL	17-May-2023 11:48 AM
						17-May-2023 12:20 PM
		3	0.1299	47	mg/dL	17-May-2023 12:21 PM
						17-May-2023 12:21 PM
		4	0.1307	47	mg/dL	17-May-2023 12:21 PM
						17-May-2023 12:21 PM
		5	0.1320	48	mg/dL	17-May-2023 12:21 PM
						17-May-2023 12:21 PM
		6	0.1322	48	mg/dL	17-May-2023 12:21 PM
						17-May-2023 12:21 PM
		7	0.1314	48	mg/dL	17-May-2023 12:21 PM
						17-May-2023 12:21 PM
		8	0.1303	47	mg/dL	17-May-2023 12:21 PM
						17-May-2023 12:21 PM
		9	0.1320	48	mg/dL	17-May-2023 12:22 PM
						17-May-2023 12:22 PM
		10	0.1340	49	mg/dL	17-May-2023 12:22 PM
						17-May-2023 12:22 PM
CHOLESTEROL	SER		0.2490	100	mg/dL	17-May-2023 12:29 PM
						17-May-2023 12:23 PM
		1	0.2517	101	mg/dL	17-May-2023 12:23 PM
						17-May-2023 12:23 PM
		2	0.2504	101	mg/dL	17-May-2023 12:23 PM
						17-May-2023 12:23 PM
		3	0.2477	99	mg/dL	17-May-2023 12:23 PM
						17-May-2023 12:23 PM
		4	0.2481	99	mg/dL	17-May-2023 12:23 PM
						17-May-2023 12:23 PM
		5	0.2485	100	mg/dL	17-May-2023 12:23 PM
						17-May-2023 12:23 PM
		6	0.2493	100	mg/dL	17-May-2023 12:23 PM
						17-May-2023 12:23 PM
		7	0.2518	101	mg/dL	17-May-2023 12:24 PM
						17-May-2023 12:24 PM
		8	0.2464	98	mg/dL	17-May-2023 12:24 PM
						17-May-2023 12:24 PM
		9	0.2470	99	mg/dL	17-May-2023 12:24 PM
						17-May-2023 12:24 PM
		10	0.2496	100	mg/dL	17-May-2023 12:29 PM
						17-May-2023 12:29 PM
						17-May-2023 01:31 PM
CREATININE	SER		0.0629	5.01	mg/dL	17-May-2023 01:29 PM
						17-May-2023 01:29 PM
		1	0.0619	4.93	mg/dL	17-May-2023 01:29 PM
						17-May-2023 01:29 PM
		2	0.0625	4.99	mg/dL	17-May-2023 01:29 PM
						17-May-2023 01:29 PM
		3	0.0622	4.96	mg/dL	17-May-2023 01:29 PM
						17-May-2023 01:29 PM
		4	0.0634	5.06	mg/dL	17-May-2023 01:30 PM
						17-May-2023 01:30 PM
		5	0.0627	5.00	mg/dL	17-May-2023 01:30 PM
						17-May-2023 01:30 PM
		6	0.0625	4.98	mg/dL	17-May-2023 01:30 PM
						17-May-2023 01:30 PM

Handwritten signature and date: 5/17/23

17-May-2023 11:48 AM

GLUCOSE	SER	7	0.0639	5.10	mg/dL	17-May-2023 01:30 PM
		8	0.0627	5.00	mg/dL	17-May-2023 01:30 PM
		9	0.0620	4.94	mg/dL	17-May-2023 01:30 PM
		10	0.0651	5.19	mg/dL	17-May-2023 01:31 PM
		1	0.0364	216.6	mg/dL	17-May-2023 12:58 PM
		2	0.0357	212.1	mg/dL	17-May-2023 12:56 PM
		3	0.0367	218.5	mg/dL	17-May-2023 12:56 PM
		4	0.0366	217.8	mg/dL	17-May-2023 12:56 PM
		5	0.0359	213.2	mg/dL	17-May-2023 12:57 PM
		6	0.0367	218.2	mg/dL	17-May-2023 12:57 PM
PROTEIN TOTALBIR	SER	6	0.0364	216.4	mg/dL	17-May-2023 12:57 PM
		7	0.0363	215.8	mg/dL	17-May-2023 12:57 PM
		8	0.0371	220.9	mg/dL	17-May-2023 12:57 PM
		9	0.0361	214.7	mg/dL	17-May-2023 12:57 PM
		10	0.0367	218.3	mg/dL	17-May-2023 12:58 PM
		1	0.2328	4.98	g/dL	17-May-2023 12:23 PM
		2	0.2341	5.03	g/dL	17-May-2023 12:22 PM
		3	0.2331	4.99	g/dL	17-May-2023 12:22 PM
		4	0.2327	4.98	g/dL	17-May-2023 12:22 PM
		5	0.2340	5.02	g/dL	17-May-2023 12:22 PM
TRIGLYCERIDES	SER	5	0.2332	4.99	g/dL	17-May-2023 12:22 PM
		6	0.2334	5.00	g/dL	17-May-2023 12:23 PM
		7	0.2328	4.98	g/dL	17-May-2023 12:23 PM
		8	0.2319	4.95	g/dL	17-May-2023 12:23 PM
		9	0.2307	4.91	g/dL	17-May-2023 12:23 PM
		10	0.2321	4.95	g/dL	17-May-2023 12:23 PM
		1	0.2018	85	mg/dL	17-May-2023 12:30 PM

SP
27/5/2023



17-May-2023 11:48 AM

		1	0.2033	87	mg/dL	17-May-2023 12:29 PM
		2	0.2031	86	mg/dL	17-May-2023 12:29 PM
		3	0.2018	85	mg/dL	17-May-2023 12:29 PM
		4	0.2035	87	mg/dL	17-May-2023 12:29 PM
		5	0.2015	85	mg/dL	17-May-2023 12:29 PM
		6	0.2015	85	mg/dL	17-May-2023 12:29 PM
		7	0.2011	85	mg/dL	17-May-2023 12:30 PM
		8	0.2001	84	mg/dL	17-May-2023 12:30 PM
		9	0.2011	85	mg/dL	17-May-2023 12:30 PM
		10	0.2011	85	mg/dL	17-May-2023 12:30 PM
UREA-BUN-UV	SER		0.1557	89.9	mg/dL	17-May-2023 12:23 PM
		1	0.1557	89.9	mg/dL	17-May-2023 12:21 PM
		2	0.1570	90.7	mg/dL	17-May-2023 12:21 PM
		3	0.1559	90.0	mg/dL	17-May-2023 12:22 PM
		4	0.1578	91.2	mg/dL	17-May-2023 12:22 PM
		5	0.1558	90.0	mg/dL	17-May-2023 12:22 PM
		6	0.1532	88.4	mg/dL	17-May-2023 12:22 PM
		7	0.1535	88.6	mg/dL	17-May-2023 12:22 PM
		8	0.1582	91.4	mg/dL	17-May-2023 12:22 PM
		9	0.1510	87.1	mg/dL	17-May-2023 12:22 PM
		10	0.1587	91.7	mg/dL	17-May-2023 12:23 PM
URIC ACID	SER		0.2609	9.55	mg/dL	17-May-2023 12:32 PM
		1	0.2608	9.54	mg/dL	17-May-2023 12:30 PM
		2	0.2585	9.44	mg/dL	17-May-2023 12:31 PM
		3	0.2604	9.52	mg/dL	17-May-2023 12:31 PM
		4	0.2620	9.60	mg/dL	17-May-2023 12:31 PM
		5	0.2635	9.67	mg/dL	17-May-2023 12:31 PM

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