



Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY



PC-1047

Cycle No	C3
Ref.No.	NEUQAP189
Sample ID	NEUQAP BIO SERUM/2021/7/C3/S7

Report Date : 10/08/2021

Sample : JUL 2021

All Methods

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
1	ALT	34	11.00	U/L	24.01	1.86	0.400	6.98	Unsatisfactory
2	HDL-CHOL	18	98.00	mg/dL	50.43	4.84	1.426	9.83	Unsatisfactory
3	GGTP	21	22.00	U/L	60.37	4.90	1.336	7.83	Unsatisfactory
4	Alkaline Phosphatase	21	35.00	U/L	59.01	4.32	1.179	5.56	Unsatisfactory
5	SODIUM	19	124.00	mmol/L	141.33	6.54	1.876	2.65	Questionable
6	TRIGLYCERIDES	30	77.00	mg/dL	69.86	5.51	1.258	1.29	Satisfactory
7	UREA	33	16.50	mg/dL	18.51	1.84	0.401	1.09	Satisfactory
8	AST	41	28.00	U/L	31.82	3.48	0.679	1.10	Satisfactory
9	ALBUMIN	33	4.20	g/dL	3.80	0.36	0.079	1.12	Satisfactory
10	POTASSIUM	27	2.00	mmol/L	2.36	0.23	0.055	1.56	Satisfactory
11	CHLORIDE	10	32.90	mmol/L	44.97	6.30		1.91	Satisfactory
12	CALCIUM	28	3.90	mg/dL	4.42	0.42	0.099	1.23	Satisfactory
13	Direct Bilirubin	27	0.20	mg/dL	0.35	0.13	0.032	1.11	Satisfactory
14	GLUCOSE	38	114.00	mg/dL	117.46	4.89	0.991	0.71	Good
15	CHOLESTEROL	29	99.00	mg/dL	101.21	6.02	1.396	0.37	Good
16	CREATININE	41	1.00	mg/dL	1.04	0.12	0.023	0.37	Good
17	BILIRUBIN	30	0.70	mg/dL	0.65	0.12	0.028	0.44	Good
18	TOTAL PROTEIN	31	3.90	g/dL	3.81	0.19	0.042	0.49	Good
19	URIC ACID	31	1.40	mg/dL	1.49	0.14	0.030	0.69	Good

Authorised Signatory

\* denotes adjusted SDPA as per ISO 13528:2015(E)  
SDPA - Standard Deviation for Proficiency Assessment

Dr. Sujay Prasad  
Technical Manager and Program coordinator

This report is for use only by the intended participant.

Page 1 of 22



An external quality assurance program from  
NEUBERGER ANAND ACADEMY OF LABORATORY MEDICINE PVT.LTD.

Anand Tower, 54, Bowring Hospital Road,  
Shivajinagar, Bangalore - 560001  
+91-9902277355 - qap@naalm.com - www.naalm.com  
CIN: U85300KA2018PTC115147



Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY



PC-1047

Cycle No	C3
Ref.No.	NEUQAP189
Sample ID	NEUQAP BIO SERUM/2021/7/C3/S7

Report Date : 10/08/2021

Sample : JUL 2021

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
20	SODIUM (ISE, Direct)	8	124.00	mmol/L	138.91	2.93		5.09	Unsatisfactory
21	Alkaline Phosphatase (PNPP AMP Buffer)	6	35.00	U/L	60.57	2.59		9.88	Unsatisfactory
22	UREA (Urease)	17	16.50	mg/dL	18.70	2.02	0.613	1.09	Satisfactory
23	ALBUMIN (BCG)	26	4.20	g/dL	3.74	0.41	0.100	1.12	Satisfactory
24	POTASSIUM (ISE, Direct)	12	2.00	mmol/L	2.35	0.27		1.27	Satisfactory
25	CHLORIDE (ISE, Direct)	7	32.90	mmol/L	42.81	5.33		1.86	Satisfactory
26	CALCIUM (Arsenazo III)	5	3.90	mg/dL	4.65	0.52		1.46	Satisfactory
27	Direct Bilirubin (Diazotised Sulphanilic)	7	0.20	mg/dL	0.34	0.08		1.71	Satisfactory
28	GLUCOSE (GOD-POD)	15	114.00	mg/dL	118.76	* 5.00	1.535	0.95	Good
29	TRIGLYCERIDES (Enzymatic)	9	77.00	mg/dL	72.63	5.13		0.85	Good
30	CREATININE (Enzymatic)	11	1.00	mg/dL	1.08	0.08		0.99	Good
31	AST (IFCC with P5P)	6	28.00	U/L	31.12	3.49		0.89	Good
32	BILIRUBIN (Dry Chemistry)	6	0.70	mg/dL	0.70	0.04			Good
33	TOTAL PROTEIN (Biuret)	26	3.90	g/dL	3.79	0.21	0.051	0.51	Good
34	URIC ACID (Uricase PAP)	7	1.40	mg/dL	1.50	0.11		0.93	Good

Authorised Signatory

\* denotes adjusted SDPA as per ISO 13528:2015(E)  
SDPA - Standard Deviation for Proficiency Assessment

Dr. Sujay Prasad  
Technical Manager and Program coordinator

This report is for use only by the intended participant.

Page 2 of 22



An external quality assurance program from  
NEUBERGER ANAND ACADEMY OF LABORATORY MEDICINE PVT.LTD.

Anand Tower, 54, Bowring Hospital Road,  
Shivajinagar, Bangalore - 560001  
+91-9902277355 - qap@naalm.com - www.naalm.com  
CIN: U85300KA2018PTC115147



Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY



PC-1047

Cycle No	C3
Ref.No.	NEUQAP189
Sample ID	NEUQAP BIO SERUM/2021/7/C3/S7

Report Date : 10/08/2021

Sample : JUL 2021

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
35	CHOLESTEROL ((CE/CO/HPO))	2	99.00	mg/dL					N/A
36	ALT (IFCC with P5P)	2	11.00	U/L					N/A
37	HDL-CHOL (DEXTRAN SULPHATE)	0	98.00	mg/dL					N/A
38	GGTP (LGamma glutamyl3carboxy4)	2	22.00	U/L					N/A

Interpretation of z scores is as follows:

- | Z score |  $\leq 1.0$  - Good
- | Z score | between 1.0 to 2.0 - Satisfactory
- | Z score | between 2.0 to 3.0 - Questionable
- | Z score |  $\geq 3.0$  - Unsatisfactory

Authorised Signatory

Dr. Sujay Prasad  
Technical Manager and Program coordinator

\* denotes adjusted SDPA as per ISO 13528:2015(E)  
SDPA - Standard Deviation for Proficiency Assessment

Page 3 of 22

This report is for use only by the intended participant.



An external quality assurance program from  
NEUBERG ANAND ACADEMY OF LABORATORY MEDICINE PVT.LTD.

Anand Tower, 54, Bowring Hospital Road,  
Shivajinagar, Bangalore - 560001  
+91-990227355 qap@naalm.com - www.naalm.com  
CIN: U85300KA2018PTC115147

RCA FORM OF ILC / PT / EQAS OUTLIERS

Department: BIOCHEMISTRY

Date: JUL 2021

1. Proficiency test exception for: ALT, HDL, CRP, & ALP - July 2021
2. Proficiency test provider: - Neo-CCAP-Neuberg Amund diagnostics
3. Proficiency test analyte group: Peer-Method group.
4. Cause for PT exception: Random error.
5. How did the section investigate the cause:
  - Sample was inadequate after the analysis for cross checking.
  - Same day IQC, July month LJ, Equipment maintenance every thing is fine that day.
6. What was the status of the internal QC on the day PT initially analysed:
  - fine.

7. Category into which the cause will fit into:
- Method  Technique
- Clerical  No explanation after investigation
- Problem with PT material  Other

8. Evidence that the problem was corrected successfully:
  - done inter lab comparison with NABL accredited lab so parameter kept under observation for further follow up.
9. Specific corrections taken to prevent the recurrence if possible:
  - As per peer group parameters are coming within the range. But peer group Z-score is not updated because of less number of participants.
10. Signatures:
  - Quality manager: M. H. C. → a. If the same parameter coming outlier for continuous months we will ask the statement from PT provider.
  - Pathologist: S. S. S.



ame : Mrs. 21WP107294 Ref. Doctor : DR. SELF  
ge / Sex : 1 Year(s) / Female Client : Walk-in  
atient ID : PDW051399  
isit No. : 21WP107375

Registered Date : 11/09/2021 12:42 PM  
Collected On : 11/09/2021 12:44 PM  
Received On : 11/09/2021 12:44 PM  
Reported On : 11/09/2021 01:09 PM



eport Type : Final

Test	Results	Units	Biological Reference Range
<b>BIOCHEMISTRY</b>			
Alanine Transaminase(ALT/ SGPT) - Serum IFCC without P-5-P	29.0	U/L	0-55
Alkaline Phosphatase - Serum IFCC PNPP	85.0	U/L	Female: 13 - 15 Year(s) : < 500 Both: 0 - 12 Year(s) : < 500 Both: 16 - 120 Year(s) : 40 - 150
Gamma-Glutamyl Transferase (GGT) - Serum Gamma--Glutamyl-p-nitroanilide IFCC	<u>10.0</u>	U/L	12-64
HDL Cholesterol - Serum Accelerator selective detergent	<u>15.00</u>	mg/dL	40-60

-- End of Report --

Kindly correlate clinically. If necessary discuss/repeat

*Rajeshwari G.*

Dr. Rajeshwari.G,  
Pathologist  
KMC-NO:85082

Page 1 / 1

**GURURAJGOVIND LIFESCIENCES WHITEFIELD LLP**

Regd Office : 28/4, Siddapura Village, Varthur-Whitefield Main Road, Bengaluru - 560 066. PH: 080 46284444  
Corp Office : 4/16, 9th Main Road, 3rd Block, Jayanagar, Bengaluru - 560 011 ☎: +91 9148524444  
Home collection : ☎ +91 78294 90000 | +91 78294 93333, www.primadiagnostics.com | admin.pw@primadiagnostics.com



Name : Mrs. GEETHANJALI K  
Age / Sex : 57 Year(s) / Female  
Patient ID : PDW051330  
Visit No. : 21WP107294  
Ref. Doctor : C/O EKINCARE  
Client : EKINCARE

Registered Date : 11/09/2021 08:39 AM  
Collected On : 11/09/2021 08:45 AM  
Received On : 11/09/2021 11:25 AM  
Reported On : 11/09/2021 02:02 PM



Report Type : Amendend

Test Results Units Biological Reference Range

**BIOCHEMISTRY**

**LFT - LIVER FUNCTION TEST**

TOTAL BILIRUBIN - Serum 0.50 mg/dL 0.2-1.3  
Diazotized sulphanilic acid Dry Chemistry

	Reference Range
Birth - 1 Day	< 5.8
1 - 2 Day	< 8.2
3 - 5 Days	< 11.7
1 Month - Adult	< 1.0
Bottle fed infants	< 14.8
Bottle fed infants	< 12.4

DIRECT BILIRUBIN - Serum 0.10 mg/dL Adult: 0.0-0.3  
Dual Wavelength - Reflectance Spectrophotometry Neonate: 0.0-0.6  
INDIRECT BILIRUBIN - Serum 0.40 mg/dL Adult: 0.0-1.1  
Dual Wavelength - Reflectance Spectrophotometry Neonate: 0.6-10.5  
Aspartate Transaminase(AST/ SGOT) - Serum 28.0 U/L Female: 14-36  
UV with P-5-P Dry Chemistry 7 - 9 Year: 15-40  
Alanine Transaminase(ALT/ SGPT) - Serum 28.0 U/L Female: < 35  
UV with P-5-P 7 - 9 year: 10-35  
Alkaline Phosphatase - Serum 87.0 U/L 40-150  
p-nitrophenyl Phosphate, AMP buffer Dry Chemistry  
Total Protein - Serum 7.3 gm/dL 6.3-8.2  
Biuret Method Dry Chemistry  
Albumin - Serum 4.1 g/dL 3.5-5.0

*Sruthi M.*

Mrs. Sruthi M,  
Biochemist



ame : Mrs. GEETHANJALI K Ref. Doctor : C/O EKINCARE  
 ge / Sex : 57 Year(s) / Female Client : EKINCARE  
 atient ID : PDW051330  
 isit No. : 21WP107294

Registered Date : 11/09/2021 08:39 AM  
 Collected On : 11/09/2021 08:45 AM  
 Received On : 11/09/2021 11:25 AM  
 Reported On : 11/09/2021 02:02 PM



Report Type : Amendend

Bromo-Cresol Green Dry chemistry

Globulins - Serum 3.2 g/dL 1.8-3.6  
 Calculated

A G Ratio - Serum 1.28 1.5-2.5  
 Derived

Gamma-Glutamyl Transferase (GGT) - Serum 9.0 U/L  
 Y-glutamyl-P-nitroanilide Dry Chemistry  
 Adult: 12-58  
 Female: 12-43  
 Male: 15-73  
 1 - 3 Years: 5-16

**LIPID PROFILE**

Cholesterol Total - Serum 105.0 mg/dl  
 Cholesterol Oxidase Dry Chemistry  
 Desirable: < 200  
 Borderline High: 200-239  
 High: >= 240

Triglycerides (TGL) - Serum 99.0 mg/dl  
 Lip/Glycerol Kinase Dry Chemistry  
 Normal: < 150  
 Borderline High: 150-199  
 High: 200-499  
 Very High: >= 500

HDL Cholesterol - Serum 13.0 mg/dL  
 Colorimetric: non HDL precipitation method  
 Low: < 40.0  
 High: >= 60.0

LDL - CHOLESTEROL - Serum 72.2 mg/dL  
 Derived  
 Very High Risk: > 190  
 High Risk: 160-189  
 Moderate Risk: 130-159  
 Desirable: < 100  
 Near Desirable: 100-129

VLDL - Serum 19.8 mg/dL  
 Calculated  
 < 30

TOTAL CHOLESTEROL/HDL CHOLESTEROL RATIO - Serum 8.08  
 manual  
 Less than 4.5

CREATININE - Serum 0.5 mg/dl  
 Modified Jaffe's / Kinetic Alkaline Picrate  
 Male: 0.66-1.25  
 Female: 0.52-1.04

*Signature*

Mrs. Sruthi M,  
 Biochemist



ame : Mrs. GEETHANJALI K Ref. Doctor : C/O EKINCARE  
 ge / Sex : 57 Year(s) / Female Client : EKINCARE  
 atient ID : PDW051330  
 isit No. : 21WP107294

Registered Date : 11/09/2021 08:39 AM  
 Collected On : 11/09/2021 08:45 AM  
 Received On : 11/09/2021 11:25 AM  
 Reported On : 11/09/2021 02:02 PM



Report Type : Amendend

Bromo-Cresol Green Dry chemistry

Globulins - Serum 3.2 g/dL 1.8-3.6  
 Calculated

A G Ratio - Serum 1.28 1.5-2.5  
 Derived

Gamma-Glutamyl Transferase (GGT) - Serum 9.0 U/L  
 Y-glutamyl-P-nitroanilide Dry Chemistry  
 Adult: 12-58  
 Female: 12-43  
 Male: 15-73  
 1 - 3 Years: 5-16

**LIPID PROFILE**

Cholesterol Total - Serum 105.0 mg/dl  
 Cholesterol Oxidase Dry Chemistry  
 Desirable: < 200  
 Borderline High: 200-239  
 High: >= 240

Triglycerides (TGL) - Serum 99.0 mg/dl  
 Lip/Glycerol Kinase Dry Chemistry  
 Normal: < 150  
 Borderline High: 150-199  
 High: 200-499  
 Very High: >= 500

HDL Cholesterol - Serum 13.0 mg/dL  
 Colorimetric: non HDL precipitation method  
 Low: < 40.0  
 High: >= 60.0

LDL - CHOLESTEROL - Serum 72.2 mg/dL  
 Derived  
 Very High Risk: > 190  
 High Risk: 160-189  
 Moderate Risk: 130-159  
 Desirable: < 100  
 Near Desirable: 100-129

VLDL - Serum 19.8 mg/dL  
 Calculated  
 < 30

TOTAL CHOLESTEROL/HDL CHOLESTEROL 8.08  
 RATIO - Serum  
 manual  
 Less than 4.5

CREATININE - Serum 0.5 mg/dl  
 Modified Jaffe's / Kinetic Alkaline Picrate  
 Male: 0.66-1.25  
 Female: 0.52-1.04

*Mrs. Sruthi M.*

Mrs. Sruthi M,  
 Biochemist





Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY



PC-1047

Cycle No	C3
Ref.No.	NEUQAP189
Sample ID	NEUQAP BIO SERUM/2021/8/C3/S8

Report Date : 09/09/2021

Sample : AUG 2021

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
20	UREA (Dry chemistry)	7	66.10	mg/dL	67.56	0.72		2.02	Questionable
21	CREATININE (Dry chemistry)	6	8.80	mg/dL	8.53	0.25		1.06	Satisfactory
22	TOTAL PROTEIN (Dry chemistry)	6	2.70	g/dL	2.58	0.10		1.12	Satisfactory
23	ALBUMIN (Dry chemistry)	7	2.00	g/dL	1.90	0.07		1.40	Satisfactory
24	URIC ACID (Dry chemistry)	6	9.10	mg/dL	8.85	0.19		1.33	Satisfactory
25	GLUCOSE (Dry chemistry)	7	33.00	mg/dL	35.71	3.04		0.89	Good
26	CHOLESTEROL (Dry chemistry)	7	140.00	mg/dL	137.43	4.48		0.57	Good
27	AST (Dry chemistry)	4	50.00	U/L	49.00	1.25		0.80	Good
28	ALT (Dry chemistry)	5	26.00	U/L	33.40	7.52		0.98	Good
29	SODIUM (ISE, Direct)	15	139.30	mmol/L	143.98	* 8.22	2.523	0.57	Good
30	POTASSIUM (ISE, Direct)	16	2.42	mmol/L	2.45	0.18	0.055	0.16	Good
31	CHLORIDE (ISE, Direct)	8	90.10	mmol/L	103.89	14.87		0.93	Good
32	CALCIUM (Dry chemistry)	5	11.50	mg/dL	11.82	0.40		0.80	Good
33	HDL-CHOL (Dry chemistry)	5	53.00	mg/dL	56.80	6.77		0.56	Good
34	Alkaline Phosphatase (Dry chemistry)	5	76.00	U/L	75.40	4.26		0.14	Good

Authorised Signatory

\* denotes adjusted SDPA as per ISO 13528:2015(E)  
SDPA - Standard Deviation for Proficiency Assessment

Dr. Sujay Prasad  
Technical Manager and Program coordinator

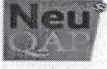
This report is for use only by the intended participant.

Page 2 of 22



An external quality assurance program from  
NEUBERG ANAND ACADEMY OF LABORATORY MEDICINE PVT.LTD.

Anand Tower, 54, Bowring Hospital Road,  
Shivajinagar, Bangalore - 560001  
+91-9902277355 : qap@naalm.com : www.naalm.com  
CIN: U85300KA2018PTC115147



Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY



PC-1047

Cycle No	C3
Ref.No.	NEUQAP189
Sample ID	NEUQAP BIO SERUM/2021/8/C3/S8

Report Date : 09/09/2021

Sample : AUG 2021

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
35	Direct Bilirubin (Dry chemistry)	5	16.10	mg/dL	14.96	1.60		0.71	Good
36	TRIGLYCERIDES (Dry chemistry)	0	167.00	mg/dL					N/A
37	BILIRUBIN (Dry Chemistry)	1	20.00	mg/dL					N/A
38	GGTP (Dry chemistry)	0	120.00	U/L					N/A

Interpretation of z scores is as follows:

| Z score | ≤ 1.0 - Good

| Z score | between 1.0 to 2.0 - Satisfactory

| Z score | between 2.0 to 3.0 - Questionable

| Z score | ≥ 3.0 - Unsatisfactory

*Journal*  
*9/10/21*

Authorised Signatory

Dr. Sujay Prasad  
Technical Manager and Program coordinator

\* denotes adjusted SDPA as per ISO 13528:2015(E)  
SDPA - Standard Deviation for Proficiency Assessment

Page 3 of 22

This report is for use only by the intended participant.



An external quality assurance program from  
NEUBERG ANAND ACADEMY OF LABORATORY MEDICINE PVT.LTD.

Anand Tower, 54, Bowring Hospital Road,  
Shivajinagar, Bangalore - 560001  
+91-9902277355 · qap@naalm.com · www.naalm.com  
CIN: UR5300KA2018PTC115147