

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY

Cycle No	C5
Ref.No.	NEUQAP610
Sample ID	NEUQAP BIO SERUM/2023/9/C5/S6

Report Date : 22/11/2023

Sample : SEP 2023

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
19	CHOLESTEROL (CHOD-PAP)	15	158.82	mg/dL	130.00	9.14		3.15	Unsatisfactory
20	DIRECT BILIRUBIN (Diazonium salt)	4	14.42	mg/dL	4.03	3.82		2.72	Questionable
21	GGTP (IFCC)	13	71.31	U/L	57.42	* 12.67	4.151	1.10	Satisfactory
22	CHLORIDE (ISE, Direct)	14	111.40	mmol/L	101.35	5.52		1.82	Satisfactory
23	TOTAL PROTEIN (Biuret)	27	1.08	g/dL	1.93	0.50	0.121	1.68	Satisfactory
24	SODIUM (ISE, Direct)	15	143.50	mmol/L	131.90	* 8.06	2.476	1.44	Satisfactory
25	CREATININE (Enzymatic)	13	6.38	mg/dL	7.81	* 1.36	0.445	1.05	Satisfactory
26	UREA (Urease)	17	57.79	mg/dL	54.15	* 6.67	1.990	0.55	Good
27	GLUCOSE (Hexokinase)	17	16.20	mg/dL	18.25	* 5.83	1.737	0.35	Good
28	TRIGLYCERIDES (GPO-PAP Method)	2	136.30	mg/dL	119.11	24.32		0.71	Good
29	ALBUMIN (BCG)	27	1.84	g/dL	1.95	0.28	0.068	0.38	Good
30	CALCIUM (Arsenazo III)	6	9.42	mg/dL	9.21	0.87		0.25	Good
31	HDL-CHOL (Enzymatic)	8	45.92	mg/dL	55.46	10.65		0.90	Good
32	URIC ACID (Uricase PAP)	8	8.28	mg/dL	8.61	1.53		0.22	Good
33	AST (IFCC without P5P)	17	16.60	U/L	15.28	* 7.46	2.292	0.18	Good

Authorised Signatory

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

Technical Advisor




Dr. Sujay Prasad
Technical Manager and Program coordinator

This report is for use only by the intended participant.

Dr Venkatesh

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Report Date : 22/11/2023

Sample : SEP 2023

Peer group

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
34	ALT (IFCC without P5P)	15	12.18	U/L	12.18	6.36			Good
35	BILIRUBIN (Diazonium Salt)	4	20.00	mg/dL	16.35	6.46		0.57	Good
36	ALKALINE PHOSPHATASE (PNPP AMP Buffer)	10	74.94	U/L	82.50	10.27		0.74	Good
37	POTASSIUM (ISE, Direct)	15	5.03	mmol/ L	4.61	* 0.45	0.138	0.93	Good

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

Authorised Signatory



Dr. Sujay Prasad
Technical Manager and Program coordinator

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INVESTIGATION FORM FOR PT / EQAS OUTLIERS

Date: 04th March 2024

1. Proficiency test provider: NeuQAP September 2023 Cycle
2. Proficiency test analyte: Cholesterol
3. Details of outlier / failure: 'Unsatisfactory' result with Z Score of 3.15. The value was reported as '158.82 mg/dL) against expected result of 130 ± 18.28 mg/dL
4. Investigation done, Root cause analysis and action taken:
 - a) Verified the data updated for transcriptional errors and method chosen for peer group comparison and found no errors. Retained sample could not be retested due to stability issues.
 - b) Internal QC, reagent stability, calibration stability, QC stability was found acceptable and equipment maintenance was also done as per schedule.
 - c) An inter laboratory comparison was initiated with the following results

Laboratory result	Referral lab result	% Difference	Acceptable criteria	Comments
132.13	129.8	1.77	≤10%	Acceptable

- d) Since, the inter laboratory comparison was acceptable, the deviation is considered as 'random error'
5. Signatures :

Lab manager / Sr. Technician:

Saraswathi

Laboratory Director:

[Signature]



Patient Name : MRS. R-- 001064
Age / Gender : 35 years / Female
Mobile No. : -
Patient ID : 7657
Source : SAMI SABINSA

Referral : Dr. LAKSHMI HOSPITAL
Collection Time : 01/03/2024, 01:53 p.m.
Receiving Time : 01/03/2024, 01:53 p.m.
Reporting Time : 01/03/2024, 05:56 p.m.
Sample ID :



Test Description	Value(s)	Reference Range	Unit(S)
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LIPID PROFILE [Chol, TGL, HDL, LDL, VLDL & Ratios]

Total Cholesterol Method : CHOD-PAP	132.13	Desirable : < 200 Borderline High : 201 - 240 High : > 240	mg/dl
Triglycerides Method : GPO-PAP	125.1	Normal : < 150 Borderline High : 151 - 199 High : ? 200	mg/dl
HDL Cholesterol Method : Enzymatic	42	< 35 Low ? 60 High	mg/dl
Non HDL Cholesterol	90.13	Desirable : < 130 Boderline high : 130 - 159 High : ? 160	mg/dl
LDL Cholesterol	65.11	Optimal : <100 Near / Above Optimal : 101 - 129 Borderline High : 130 - 159 High : ? 160	mg/dl
VLDL Cholesterol	25.02	Below 30	mg/dl
CHOL/HDL Ratio	3.15	Desirable/Low Risk : 3.3 - 4.4 Borderline/Middle Risk : 4.5 - 7.1 Elevated/High Risk : 7.2 - 11.0	
Cholesterol LDL/HDL Ratio	1.55	Desirable/Low Risk : 0.5 - 3.0 Borderline/Middle Risk : 3.1 - 6.0 Elevated/High Risk : >6.1	

Specimen Type : Serum

Appearance of Serum

Clear

Notes:

- Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL& LDL Cholesterol.
- NLA-2014 recommends a complete lipoprotein profile as the initial test for evaluating cholesterol.
- Friedewald equation to calculate LDL cholesterol is most accurate when Triglyceride level is < 400 mg/dL. Measurement of Direct LDL cholesterol is recommended when Triglyceride level is > 400 mg/dL

****END OF REPORT****





SHREERAKSHA LABS PRIVATE LIMITED

Care forever

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NABL-M(EL)T-00393

Reg No. R13453
Name Mrs. R 001064
Ref. by Dr.cluepath lab

Reg. Date 02/03/2024 14:21
Age / Sex 35 Year(s) / Female
Coll. Date

Test Name	Result	Biological Reference Interval	Sample
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Bio Chemistry

CHOLESTEROL (TOTAL), SERUM
Cholesterol Oxidase Method

129.8 mg/dL

<200 mg/dL : Desirable
200-239 mg/dL : Borderline High
>240 mg/dL : High
(ref - ATP 3 Guidelines)

SERUM

----- End Of Bio Chemistry Report -----

Vivek Hegde

Consultant Biochemist

Reported On : 02/03/2024 14:38

Tests marked by ' # ' is referred test

INVESTIGATION FORM FOR PT / EQAS OUTLIERS

Date: 26th November 2024

1. Proficiency test provider: NeuQAP September 2023 Cycle
2. Proficiency test analyte: Direct Bilirubin
3. Details of outlier / failure: 'Questionable' result with Z Score of 2.72. The value was reported as '14.42 mg/dL against expected result of 4.03 ± 7.64 mg/dL
4. Investigation done, Root cause analysis and action taken:
 - a) Verified the data updated for transcriptional errors found no errors.
 - b) It was observed that the method for peer group comparison is erroneously chosen as 'Diazonium Salt'. On consultation with the service provider, the same was corrected as 'Vanadate Oxidation method'.
 - c) The peer group for this method also was small (4), whereas the result was acceptable on comparison with all methods (Z Score = 1.98) which is taken into consideration and the result is considered 'acceptable' and the same would be taken into consideration going further for this analyte.
5. Signatures :

Lab manager / Sr. Technician: *Saralwadi*

Laboratory Director:





Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

PT SCHEME: BIOCHEMISTRY



PC-1047

Cycle No	C5
Ref.No.	NEUQAP610
Sample ID	NEUQAP BIO SERUM/2023/9/C5/S6

Report Date : 22/11/2023

Sample : SEP 2023

All Methods

	Parameters	Labs (n)	Lab Value	Unit	Assigned value	SDPA	Um	Z-Score	Remarks
1	CHOLESTEROL	34	158.82	mg/dL	134.47	8.28	2.029	2.94	Questionable
2	CREATININE	36	6.38	mg/dL	7.82	0.93	0.202	1.56	Satisfactory
3	DIRECT BILIRUBIN	33	14.42	mg/dL	6.80	3.86	0.928	1.98	Satisfactory
4	CHLORIDE	30	111.40	mmol/L	100.81	6.96	1.644	1.52	Satisfactory
5	TOTAL PROTEIN	35	1.08	g/dL	2.08	0.57	0.121	1.75	Satisfactory
6	SODIUM	31	143.50	mmol/L	130.81	7.48	1.680	1.70	Satisfactory
7	POTASSIUM	31	5.03	mmol/L	4.65	0.40	0.090	0.95	Good
8	GLUCOSE	36	16.20	mg/dL	18.49	5.41	1.177	0.42	Good
9	ALBUMIN	35	1.84	g/dL	1.92	0.28	0.059	0.30	Good
10	CALCIUM	27	9.42	mg/dL	9.71	1.92	0.462	0.15	Good
11	HDL-CHOL	29	45.92	mg/dL	54.05	10.45	2.785	0.78	Good
12	URIC ACID	34	8.28	mg/dL	8.12	1.74	0.372	0.09	Good
13	ALKALINE PHOSPHATASE	35	74.94	U/L	81.62	10.78	2.593	0.62	Good
14	ALT	36	12.18	U/L	10.45	4.60	1.050	0.38	Good
15	BILIRUBIN	35	20.00	mg/dL	17.82	6.56	1.577	0.33	Good
16	UREA	36	57.79	mg/dL	56.61	7.87	1.739	0.15	Good
17	AST	36	16.60	U/L	15.32	5.86	1.337	0.22	Good
18	TRIGLYCERIDES	30	136.30	mg/dL	122.19	23.04	6.005	0.61	Good

Authorised Signatory

Dr. Sujay Prasad

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