Neu-QAP

(an EXTERNAL QUALITY ASSURANCE PROGRAMME)

PC-1047

## PARTICIPANT FINAL ASSESSMENT REPORT (SUMMARY)

### PT SCHEME:SPECIAL CHEMISTRY

| | |
|---|---|
| Cycle No | *C3* |
| Ref.No. | NEUQAP109 |
| Sample ID | *NEUQAP SBIO 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 | T3 | 18 | **0.99** | ng/mL | 0.33 | 0.20 | 0.058 | 3.38 | Unsatisfactory |
| 2 | T4 | 20 | **0.82** | mcg/dl | 1.19 | 0.54 | 0.151 | 0.69 | Good |
| 3 | TSH | 22 | **0.20** | mcIU/mL | 0.24 | 0.04 | 0.012 | 0.83 | Good |
| 4 | HbA1c | 20 | **5.60** | % | 5.59 | 0.28 | 0.079 | 0.04 | Good |
| 5 | FSH | 11 | **Not Recvd.** | mIU/mL | 0.49 | 0.11 | | | N/A |
| 6 | PROLACTIN | 12 | **Not Recvd.** | ng/mL | 1.47 | 0.18 | | | N/A |
| 7 | CPK | 12 | **Not Recvd.** | U/L | 53.29 | 4.10 | | | N/A |
| 8 | LDH(pyruvate to Lactate) | 5 | **Not Recvd.** | U/L | 28.80 | 1.75 | | | N/A |
| 9 | MAGNESIUM | 11 | **Not Recvd.** | mg/dL | 2.12 | 0.19 | | | N/A |
| 10 | PHOSPHORUS | 16 | **Not Recvd.** | mg/dL | 4.04 | 0.19 | 0.060 | | N/A |
| 11 | LH | 12 | **Not Recvd.** | mIU/mL | 0.60 | 0.07 | | | N/A |
| 12 | Iron | 9 | **Not Recvd.** | mcg/dl | 26.32 | 5.19 | | | N/A |
| 13 | TIBC | 6 | **Not Recvd.** | mcg/dl | 59.80 | 9.78 | | | N/A |
| 14 | AMYLASE | 12 | **Not Recvd.** | U/L | 127.06 | 6.69 | | | N/A |
| 15 | Apo A | 4 | **Not Recvd.** | mg/dL | 13.50 | 2.01 | | | N/A |
| 16 | Apo B | 5 | **Not Recvd.** | mg/dL | 12.60 | 4.76 | | | N/A |
| 17 | LDL- Cholesterol | 5 | **Not Recvd.** | mg/dL | 16.46 | 1.00 | | | N/A |
| 18 | LDH(Lactate to Pyruvate) | 9 | **Not Recvd.** | U/L | 30.81 | 2.13 | | | N/A |

Authorised Signatory

* denotes adjusted SDPA as per ISO 13528:2015(E)

SDPA - Standard Deviation for Proficiency Assessment



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An external quality assurance program from

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# RCA FORM OF ILC / PT / EQAS OUTLIERS

**Department:** **Date:**

1. Proficiency test exception for: T3
2. Proficiency test provider: NEQ-QAP
3. Proficiency test analyte group:
4. Cause for PT exception: (1) This is the 3rd PT Analyte with NEQ-QAP as per NABL (MELT) program
5. How did the section investigate the cause: (2) The earlier PT provider BIORAD-PT Analytes was satisfactory and reports of this have been attached.
6. What was the status of the internal QC on the day PT initially analysed: passed
7. Category into which the cause will fit into:
   - A. Method
   - B. Technical
   - C. Clerical
   - D. Problem with PT material Other
   - E. No explanation after investigation

(3) PT with NEQ-QAP 3 parameters under observation

(4) Cross lab comparison satisfactory reports attached

8. Evidence that the problem was corrected successfully: Attached
9. Specific corrections taken to prevent the recurrence if possible:
10. Signatures :

Quality manager:

Pathologist:

**Troubleshooting Guidelines**

| Method | Technical | Clerical | Problem with PT material | No explanation after investigation |
|---|---|---|---|---|
| Equipment function checks | Misinterpretation / Wrong identification / Wrong labeling | Transcription error | Leaked / broken vial / not fit for analysis | Use this choice only when the investigation has yielded no satisfactory explanation |
| Scheduled maintenance not carried out or out of acceptable range | Dilution error / incorrect pipetting | Registration of wrong method or method change is not updated | Bacterial contamination | |
| Problem with data processing functions | Time delay between reconstitution and analysis | | Perceived survey bias / inappropriate target value | |
| Faulty standard or other reagent | Calculation error | | | |
| Incorrect calibration | Analysis accepted in nonlinear range | | Unstable material | |
| Carry over from previous specimen | Analysis done even though controls were out of range or controls not assayed | | Matrix effect incompatible with method | |
| Result close to the detection limit of method | QC data within acceptable limits but showed trend suggestive of problem with the assay | | No comparable peer group | |
| | | | Acceptable range too low | |
| | Sample mix up | | Late shipment | |
| Other method related problem | Other technical problem | | Improper package and temperature control | |

Note: When all identifiable sources of error have been excluded, a single unacceptable result may be attributed to random error, particularly when the result of repeat analysis is acceptable. In such cases, no corrective action should be taken; as such an action may actually increase the probability of a future unacceptable result.

BIO-RAD

**Lab 164803**
PRIMA DIAGNOSTICS
#93, 1ST MAIN ROAD, 1ST PHASE, SECTOR A,
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# Sample Summary Report
## Clinical Chemistry (Monthly) Program

**Cycle 19**
Jul 2020 – Jul 2021
Sample No: 12
Sample Date: 28 Jun 21
Lot No: 211800

EQAS
External Quality Assurance Services

### Instrument: SENSA CORE – ST-100/100B/100C /200

| Analyte | Unit | Result | Mean | Z-score | RMZ | Comparator |
|---|---|---|---|---|---|---|
| ✔ Chloride | mmol/L | 111.9 | 113 | -0.27 | -0.07 | Peer |
| ✔ Potassium | mmol/L | 5.45 | 5.86 | -1.58 | -0.90 | Peer |
| ✔ Sodium | mmol/L | 145.3 | 150 | -1.20 | -0.57 | Peer |

### Instrument: VITROS Microslide Series

| Analyte | Unit | Result | Mean | Z-score | RMZ | Comparator |
|---|---|---|---|---|---|---|
| ✔ Albumin | g/dL | 4.8 | 5.07 | -1.76 | -0.28 | Peer |
| ✔ Alkaline Phosphatase | U/L | 345 | 354 | -0.48 | 0.76 | Peer |
| ✔ ALT (ALAT/GPT) | U/L | 170 | 172 | -0.32 | -0.21 | Peer |
| ✔ AST/GOT | U/L | 361 | 343 | 1.45 | 0.76 | Peer |
| ✔ Bilirubin, Direct | mg/dL | 1.8 | 1.77 | 0.08 | -0.80 | Peer |
| ✔ Bilirubin, Indirect/BU | mg/dL | 6.1 | 6.17 | -0.27 | 1.37 | Peer |
| ✔ Bilirubin, Total | mg/dL | 7.9 | 8.01 | -0.43 | -0.10 | Peer |
| ✔ Calcium | mg/dL | 14.4 | 15.2 | -1.62 | 0.58 | Peer |
| ✔ Cholesterol, HDL | mg/dL | 70 | 72.5 | -0.55 | 0.40 | Peer |
| ✔ Cholesterol, Total | mg/dL | 358 | 374 | -0.79 | 0.17 | Peer |
| ✔ Creatinine | mg/dL | 1.29 | 1.33 | -0.88 | 0.37 | Peer |
| ✔ G-Glutamyltransferase | U/L | 449 | 435 | 0.98 | 1.40 | Peer |
| ✔ Glucose | mg/dL | 132 | 137 | -1.50 | -0.71 | Peer |
| ▽ Protein, Total | g/dL | 7.2 | 7.62 | -2.45 | -0.83 | Peer |
| ✔ Triglycerides | mg/dL | 213 | 223 | -1.23 | -0.44 | Peer |
| ✔ Urea | mg/dL | 170.7 | 171 | -0.04 | 0.09 | Peer |
| ✔ Uric Acid | mg/dL | 8.8 | 8.84 | -0.18 | -0.79 | Peer |

### Instrument: VITROS Microwell Series

| Analyte | Unit | Result | Mean | Z-score | RMZ | Comparator |
|---|---|---|---|---|---|---|
| ✔ T3, Total | ng/mL | 2.41 | 2.27 | 1.27 | 0.43 | Peer |
| ✔ T4, Total | µg/dL | 12.3 | 12.1 | 0.34 | -0.06 | Peer |
| ✔ TSH | µIU/mL | 19.5 | 20.0 | -0.52 | 0.41 | Peer |

Legend: ✔ No Warnings  Missing Result  [1] Late Results  ▽ 2.0 ≤ |Z-score| < 3.0  ✘ |Z-score| ≥ 3.0
* Amended Result (per participant's request)  ⌗ Non-robust determination of Mean and SD

**Problem Classification:** _____

**Corrective Action:** _____

**Reviewed by:** _____ **Date:** _____





[1] Expanded uncertainty coverage factor, k=2
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