



Department of Clinical Biochemistry
Christian Medical College, Vellore

CMC EXTERNAL QUALITY ASSURANCE SCHEME

(Under the aegis of ACBI)



PC-1024

Certificate of Participation

This is to certify that
SOUTH ZONE HOSPITALS & RESEARCH CENTRE

.....
THRISSUR
.....

Lab No. 17471 has participated

*in the Chemistry I Program of the External Quality Assurance Scheme
during the year 2023.*

Pamela Christudoss

Dr. Pamela Christudoss, M.Sc., Ph.D.,

EQAS Coordinator

Professor of Clinical Biochemistry



**CHRISTIAN MEDICAL
COLLEGE**
DEPARTMENT OF CLINICAL BIOCHEMISTRY
**CMC EXTERNAL QUALITY ASSURANCE
SCHEME**
EQAS YEARLY SUMMARY - 2023



PC-1024

Lab Name **SOUTH ZONE HOSPITALS & RESEARCH CENTRE** Lab No **17471**
 Constituent Group **Chemistry I**
 PT item **Lyophilized human serum based** Date of Report Published **10-01-2024**

Group I : Laboratories who reported 10 to 12 months during 2023

Group II : Laboratories who reported 6 to 9 months during 2023

Group III : Laboratories who reported less than 6 months during 2023

| Sl.No | Parameter | Rank Group | No of Labs | OMZ-Score | Grade |
|-------|--------------|------------|------------|-----------|-------|
| 1 | GLUCOSE | Group I | 3988 | 0.28 | A |
| 2 | UREA | Group I | 3646 | 0.48 | A |
| 3 | CREATININE | Group I | 3965 | 0.50 | A |
| 4 | T.BILIRUBIN | Group I | 3885 | 0.42 | A |
| 5 | T-PROTEIN | Group I | 3874 | 0.53 | A |
| 6 | ALBUMIN | Group I | 3528 | 0.39 | A |
| 7 | CALCIUM | Group I | 3286 | 0.54 | A |
| 8 | PHOSPHORUS | Group I | 2069 | 0.61 | A |
| 9 | URIC ACID | Group I | 3805 | 0.59 | A |
| 10 | CHOLESTEROL | Group I | 3891 | 0.64 | A |
| 11 | TRIGLYCERIDE | Group I | 3799 | 0.36 | A |
| 12 | HDL | Group I | 3353 | 0.28 | A |
| 13 | AST | Group I | 3726 | 0.62 | A |
| 14 | ALT | Group I | 3736 | 0.69 | A |
| 15 | ALP | Group I | 3762 | 0.44 | A |

| OMZ Score | Grade | Interpretation |
|-------------------|-------|----------------|
| $ Z \leq 1.0$ | A | Excellent |
| $1.0 < Z < 2.0$ | B | Good |
| $2.0 < Z < 3.0$ | C | Satisfactory |
| $ Z \geq 3.0$ | D | Unacceptable |

LAB ADDRESS

**SOUTH ZONE HOSPITALS & RESEARCH CENTRE
CHANDANAM PLAZA, GURUVAYOOR ROAD, KUNNAMKULAM
THRISSUR
KERALA680503**

Coordinator Contact Details:
Email: clinqc@cmcvellore.ac.in
Contact number: 0416-2283102

Pamela Christudoss

**Dr. Pamela Christudoss
CMC EQAS Coordinator
Christian Medical College,
Vellore**

Data in CMC EQAS reports is confidential
CMC EQAS does not sub contract any components
***** End of Report *****



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - FEBRUARY 2024



PC-1024

Lab Name **SOUTH ZONE HOSPITALS & RESEARCH CENTRE**

Lab No **17471**

Constituent Group **Chemistry I**

Date of Result Entered : **13/02/2024**

PT item **Lyophilized human serum based**

Date of Report Published : **05/03/2024**

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | AV | Participants | | Your Value | Z Score | u* |
|-------|--------------|--|---------------|--------------------|--------|--------------|-------|--------------|---------|------|
| | | | | | | CV | SDPA | | | |
| 1 | GLUCOSE | GOD-POD | Agape | 209 | 257.71 | 6.67 | 17.20 | 252.42 mg/dL | -0.31 | 2.38 |
| 2 | UREA | Urease UV / GLDH | Agape | 218 | 64.51 | 7.34 | 4.74 | 59.09 mg/dL | -1.14 | 0.64 |
| 3 | CREATININE | Enzymatic Colorimetric | Agape | 90 | 5.81 | 5.95 | 0.35 | 5.81 mg/dL | 0.00 | 0.07 |
| 4 | T.BILIRUBIN | Diazonium salt (Colorimetric) / Jendrassik | Agape | 194 | 2.94 | 10.85 | 0.32 | 2.86 mg/dL | -0.25 | 0.05 |
| 5 | T-PROTEIN | Biuret - Colorimetric | Agape | 221 | 5.38 | 5.82 | 0.31 | 5.57 g/dL | 0.61 | 0.04 |
| 6 | ALBUMIN | BCG - colorimetric | Agape | 210 | 3.43 | 5.86 | 0.20 | 3.39 g/dL | -0.20 | 0.03 |
| 7 | CALCIUM | Arsenazo III | Agape | 163 | 10.88 | 6.93 | 0.75 | 10.66 mg/dL | -0.29 | 0.12 |
| 8 | PHOSPHORUS | Molybdate UV / Phosphomolybdate complex | Agape | 111 | 3.81 | 7.93 | 0.30 | 3.86 mg/dL | 0.17 | 0.06 |
| 9 | URIC ACID | Enzymatic / Uricase Colorimetric | Agape | 216 | 7.68 | 6.07 | 0.47 | 7.63 mg/dL | -0.11 | 0.06 |
| 10 | CHOLESTEROL | CHOD-PAP | Agape | 228 | 107.67 | 7.95 | 8.56 | 105.75 mg/dL | -0.22 | 1.13 |
| 11 | TRIGLYCERIDE | GPO-PAP / Enzymatic Colorimetric / End Point | Agape | 221 | 187.73 | 6.28 | 11.79 | 187.73 mg/dL | 0.00 | 1.59 |
| 12 | HDL | Direct method / Enzymatic colorimetric | Agape | 193 | 27.40 | 8.70 | 2.38 | 26.6 mg/dL | -0.34 | 0.34 |
| 13 | AST | UV kinetic(with & without PLP (P-5-P)) | Agape | 224 | 66.50 | 9.85 | 6.55 | 66.94 U/L | 0.07 | 0.88 |
| 14 | ALT | UV kinetic(with & without PLP (P-5-P)) | Agape | 225 | 95.02 | 16.83 | 15.99 | 101.01 U/L | 0.37 | 2.13 |
| 15 | ALP | PNP AMP kinetic | Agape | 113 | 105.41 | 19.31 | 20.36 | 104.91 U/L | -0.02 | 3.83 |

u* - Method of Uncertainty

| Z-Score | Interpretation |
|-------------------|------------------------------|
| $ z \leq 2.0$ | Acceptable |
| $2.0 < z < 3.0$ | Warning Signal |
| $ z \geq 3.0$ | Unacceptable (action Signal) |

LAB ADDRESS :

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Coordinator Contact Details:
Email:clinqc@cmcvellore.ac.in
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Dr. Pamela Christudoss
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Christian Medical College, Vellore

Homogeneity and Stability of the sample is passed.

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******* End of Report *******