



# CHRISTIAN MEDICAL COLLEGE

VELLORE, TAMIL NADU - 632004. INDIA

## DEPARTMENT OF CLINICAL BIOCHEMISTRY

### CMC EXTERNAL QUALITY ASSURANCE SCHEME



PC-1024

### MONTHLY SUMMARY REPORT - MAY 2024

LAB NO: 19896

LAB NAME: **GAUTAM LABDHI MEDICAL & RESEARCH CHARITAE**

CONSTITUENT GROUP

**Chemistry I**

Date of Result Entered: 07/05/2024

Date of Result Published: 30/05/2024

PT Item: Lyophilized human serum based

S. No.	Analyte	Method / Principle	Analyser	No. of Participants	AV	Participants		Your Value	Z Score	u*
						CV	SDPA			
1	GLUCOSE	GOD-POD	Any Analyser (Automation / Semi Automation )	1236	172.76	5.94	10.27	178.3 mg/dL	0.54	0.58
2	UREA	Urease UV / GLDH	Any Analyser (Automation / Semi Automation )	1115	92.31	7.71	7.12	88 mg/dL	-0.61	0.43
3	CREATININE	Enzymatic Colorimetric	Any Analyser (Automation / Semi Automation )	232	4.05	7.41	0.3	3.81 mg/dL	-0.8	0.04
4	T.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Any Analyser (Automation / Semi Automation )	774	3.87	11.24	0.44	3.96 mg/dL	0.21	0.03
5	T-PROTEIN	Biuret - Colorimetric	Any Analyser (Automation / Semi Automation )	1155	5.23	6.56	0.34	5.64 g/dL	1.2	0.02
6	ALBUMIN	BCG - colorimetric	Any Analyser (Automation / Semi Automation )	1174	3.11	9.07	0.28	2.83 g/dL	-0.99	0.02
7	CALCIUM	Arsenazo III	Any Analyser (Automation / Semi Automation )	994	9.45	5.6	0.53	9.07 mg/dL	-0.72	0.03
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Any Analyser (Automation / Semi Automation )	365	4.62	10.02	0.46	5.2 mg/dL	1.25	0.05
9	URIC ACID	Enzymatic / Uricase Colorimetric	Any Analyser (Automation / Semi Automation )	975	5.91	9.9	0.58	6.32 mg/dL	0.7	0.04
10	CHOLESTEROL	CHOD-PAP	Any Analyser (Automation / Semi Automation )	1229	102.69	7.38	7.58	94 mg/dL	-1.15	0.43
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Any Analyser (Automation / Semi Automation )	1164	168.51	6.16	10.37	149.9 mg/dL	-1.79	0.61
12	HDL	Direct method / Enzymatic colorimetric	Any Analyser (Automation / Semi Automation )	887	23.44	10.01	2.35	26.8 mg/dL	1.43	0.16
13	SODIUM	ISE - Direct	Transasia / Erba	260	133.65	3.11	4.15	132.8 mmol/L	-0.2	0.52
14	POTASSIUM	ISE - Direct	Transasia / Erba	260	4.75	5.29	0.25	4.9 mmol/L	0.6	0.03
15	CHLORIDE	ISE - Direct	Transasia / Erba	210	99.35	4.42	4.39	97.1 mmol/L	-0.51	0.61



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						CV	SDPA			
16	AST	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	1115	55.28	9.9	5.47	55.2 U/L	-0.01	0.33
17	ALT	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	1010	103.7	11.18	11.6	110.5 U/L	0.59	0.73
18	ALP	PNP DEA kinetic	Any Analyser (Automation / Semi Automation )	150	112.64	10.95	12.33	122.8 U/L	0.82	2.01

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

GAUTAM LABDHI MEDICAL & RESEARCH  
CHARITABLE TRUST,  
SHOP NO.106, 107, ASHOKA PLAZA, NEXT TO  
HOTEL HYAT, PUNE VIMANNAGAR ROAD,

#### Coordinator Contact Details:

E-Mail: [clinqc@cmcvellore.ac.in](mailto:clinqc@cmcvellore.ac.in)  
Contact No.: 0416-2283102

Homogeneity and Stability of the sample is passed.  
Data in CMC EQAS reports is confidential.  
CMC EQAS does not sub contract any components.  
\*\*\*\*\* End of Report \*\*\*\*\*

*Pamela Christudoss*

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



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#### MONTHLY SUMMARY REPORT - JUNE 2024

LAB NO: 19896

LAB NAME: **GAUTAM LABDHI MEDICAL & RESEARCH CHARITAE**

CONSTITUENT GROUP

**Chemistry I**

Date of Result Entered: 10/06/2024

Date of Result Published: 27/06/2024

PT Item: Lyophilized human serum based

S. No.	Analyte	Method / Principle	Analyser	No. of Participants	AV	Participants		Your Value	Z Score	u*
						CV	SDPA			
1	D.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Any Analyser (Automation / Semi Automation )	279	1.09	23.28	0.25	1.17 mg/dL	0.32	0.03

u\* - method of uncertainty

Z-Score	Interpretation
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						CV	SDPA			
1	GLUCOSE	GOD-POD	Any Analyser (Automation / Semi Automation )	1290	303.92	5.91	17.97	325.1 mg/dL	1.18	1
2	UREA	Urease UV / GLDH	Any Analyser (Automation / Semi Automation )	1166	78.13	7.68	6	85 mg/dL	1.14	0.35
3	CREATININE	Enzymatic Colorimetric	Any Analyser (Automation / Semi Automation )	249	1.68	9.37	0.16	1.56 mg/dL	-0.76	0.02
4	T.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Any Analyser (Automation / Semi Automation )	1161	2.46	18.18	0.45	3.01 mg/dL	1.23	0.03
5	T-PROTEIN	Biuret - Colorimetric	Any Analyser (Automation / Semi Automation )	1256	5.37	7.71	0.41	5.64 g/dL	0.65	0.02
6	ALBUMIN	BCG - colorimetric	Any Analyser (Automation / Semi Automation )	1226	3.24	8.36	0.27	1.93 g/dL	-4.83	0.02
7	CALCIUM	Arsenazo III	Any Analyser (Automation / Semi Automation )	1036	9.76	6.21	0.61	11 mg/dL	2.05	0.04
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Any Analyser (Automation / Semi Automation )	506	5.44	13.5	0.73	5.56 mg/dL	0.16	0.07
9	URIC ACID	Enzymatic / Uricase Colorimetric	Any Analyser (Automation / Semi Automation )	1205	4.11	15.24	0.63	3.74 mg/dL	-0.59	0.04
10	CHOLESTEROL	CHOD-PAP	Any Analyser (Automation / Semi Automation )	1235	114.86	5.63	6.47	115 mg/dL	0.02	0.37
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Any Analyser (Automation / Semi Automation )	1212	101.55	8.87	9.01	106.7 mg/dL	0.57	0.52
12	HDL	Direct method / Enzymatic colorimetric	Any Analyser (Automation / Semi Automation )	1000	26.27	11.71	3.08	33.9 mg/dL	2.48	0.19
13	SODIUM	ISE - Direct	Transasia / Erba	267	125.36	4.02	5.04	122.4 mmol/L	-0.59	0.62
14	POTASSIUM	ISE - Direct	Transasia / Erba	263	3.08	6.11	0.19	3.03 mmol/L	-0.27	0.02
15	CHLORIDE	ISE - Direct	Transasia / Erba	212	92.19	4.92	4.53	93.3 mmol/L	0.24	0.62



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16	AST	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	1154	77.15	10.14	7.82	81.5 U/L	0.56	0.46
17	ALT	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	1180	205.62	16.45	33.83	190.6 U/L	-0.44	1.97
18	ALP	PNP DEA kinetic	Any Analyser (Automation / Semi Automation )	444	77.94	33	25.72	73.5 U/L	-0.17	2.44

u\* - method of uncertainty

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