



# CHRISTIAN MEDICAL COLLEGE

VELLORE, TAMIL NADU - 632004. INDIA

DEPARTMENT OF CLINICAL BIOCHEMISTRY  
CMC EXTERNAL QUALITY ASSURANCE SCHEME



PC-1024

## MONTHLY SUMMARY REPORT - SEPTEMBER 2024

LAB NO: 10193

LAB NAME: QRIS HEALTH

CONSTITUENT GROUP

Chemistry I

Date of Result Entered: 06/09/2024

Date of Result Published: 01/10/2024

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	Mindray	298	101.98	5.52	5.63	105.8 mg/dL	0.68	0.65
2	UREA	Urease UV / GLDH	Mindray	365	58.25	6.01	3.5	64.55 mg/dL	1.8	0.37
3	CREATININE	Enzymatic Colorimetric	Mindray	135	1.89	5.54	0.1	1.91 mg/dL	0.2	0.02
4	T.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Mindray	324	3.85	8.81	0.34	3.92 mg/dL	0.21	0.04
5	T-PROTEIN	Biuret - Colorimetric	Mindray	371	5.24	6.04	0.32	5.4 g/dL	0.5	0.03
6	ALBUMIN	BCG - colorimetric	Mindray	359	3.28	6.32	0.21	3.5 g/dL	1.05	0.02
7	CALCIUM	Arsenazo III	Mindray	294	9.36	6.37	0.6	10.37 mg/dL	1.68	0.07
8	URIC ACID	Enzymatic / Uricase Colorimetric	Mindray	362	4.56	7.46	0.34	4.47 mg/dL	-0.26	0.04
9	CHOLESTEROL	CHOD-PAP	Mindray	367	112.36	6.22	6.99	116.7 mg/dL	0.62	0.73
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Mindray	364	118.43	8.25	9.77	128.4 mg/dL	1.02	1.02
11	HDL	Direct method / Enzymatic colorimetric	Mindray	310	24.41	8.71	2.13	28.2 mg/dL	1.78	0.24
12	SODIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	1516	134.37	3.07	4.12	138.1 mmol/L	0.91	0.21
13	POTASSIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	1520	3.39	5.52	0.19	4.01 mmol/L	3.26	0.01
14	CHLORIDE	ISE - Direct	Any Analyser (Automation / Semi Automation )	1237	98.42	4.22	4.15	108 mmol/L	2.31	0.24
15	AST	UV kinetic(with & without PLP (P-5-P))	Mindray	356	32.62	9.69	3.16	36.1 U/L	1.1	0.34
16	ALT	UV kinetic(with & without PLP (P-5-P))	Mindray	353	41.63	14.81	6.17	45.9 U/L	0.69	0.66
17	ALP	PNP AMP kinetic	Mindray	281	128.91	14.34	18.48	138.3 U/L	0.51	2.21
18	AMYLASE	CNPG3	Any Analyser (Automation / Semi Automation )	597	164.12	21.56	35.39	160.7 U/L	-0.1	2.9



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**MONTHLY SUMMARY REPORT - JULY 2024**

LAB NO: 10193  
LAB NAME: **QRIS HEALTH**

CONSTITUENT GROUP

**Chemistry I**

PT Item: Lyophilized human serum based

Date of Result Entered: 09/07/2024

Date of Result Published: 08/08/2024

S. No.	Analyte	Method / Principle	Analyser	No. of Participants	AV	Participants		Your Value	Z Score	u*
						CV	SDPA			
1	GLUCOSE	GOD-POD	Mindray	285	130.22	5.14	6.69	127.2 mg/dL	-0.45	0.79
2	UREA	Urease UV / GLDH	Mindray	354	48.91	6.06	2.96	52.46 mg/dL	1.2	0.32
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Mindray	189	2.45	10.4	0.25	2 mg/dL	-1.8	0.04
4	T.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Mindray	310	7.46	9.28	0.69	6.5 mg/dL	-1.39	0.08
5	T-PROTEIN	Biuret - Colorimetric	Mindray	355	5.24	6.04	0.32	5.1 g/dL	-0.44	0.03
6	ALBUMIN	BCG - colorimetric	Mindray	347	3.29	6.24	0.21	3.4 g/dL	0.52	0.02
7	CALCIUM	Arsenazo III	Mindray	285	9.84	5.8	0.57	10.4 mg/dL	0.98	0.07
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Mindray	212	7.59	8.09	0.61	7.93 mg/dL	0.56	0.08
9	URIC ACID	Enzymatic / Uricase Colorimetric	Mindray	346	8.7	5.57	0.48	8.33 mg/dL	-0.77	0.05
10	CHOLESTEROL	CHOD-PAP	Mindray	354	107.37	6.28	6.74	109.9 mg/dL	0.38	0.72
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Mindray	351	126.05	9	11.34	121.9 mg/dL	-0.37	1.21
12	HDL	Direct method / Enzymatic colorimetric	Mindray	297	24.47	7.6	1.86	23 mg/dL	-0.79	0.22
13	SODIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	1469	133.18	3.17	4.23	132.2 mmol/L	-0.23	0.22
14	POTASSIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	1472	3.82	4.9	0.19	3.91 mmol/L	0.47	0.01
15	CHLORIDE	ISE - Direct	Any Analyser (Automation / Semi Automation )	1198	97.9	4.58	4.48	99.9 mmol/L	0.45	0.26
16	BICARBONATE	Enzymatic - PEPC ( Phosphoenolpyruvate )	Any Analyser (Automation / Semi Automation )	254	21.29	14.96	3.19	28.11 mmol/L	2.14	0.4
17	AST	UV kinetic(with & without PLP (P-5-P))	Mindray	340	111.23	9.63	10.72	105.2 U/L	-0.56	1.16



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						CV	SDPA			
18	ALT	UV kinetic(with & without PLP (P-5-P))	Mindray	339	52.57	18.43	9.69	41.6 U/L	-1.13	1.05
19	ALP	PNP AMP kinetic	Mindray	265	186.46	14.01	26.13	179.9 U/L	-0.25	3.21
20	AMYLASE	Enzymatic Colorimetric / G7PNP Blocked	Mindray	67	53.26	6.48	3.45	40.5 U/L	-3.7	0.84
21	IRON	Ferro Zine ( No Protein Removal )	Any Analyser (Automation / Semi Automation )	425	149.81	1.63	2.44	157 ug/dL	2.95	0.24
22	MAGNESIUM	Others ( Any other principles / Methods)	Any Analyser (Automation / Semi Automation )	190	2.69	19.39	0.52	2.58 mg/dL	-0.21	0.08
23	UIBC	Ferro Zine ( No Protein Removal )	Any Analyser (Automation / Semi Automation )	36	90.79	22.13	20.1	90 ug/dL	-0.04	6.7
24	LITHIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	41	1.22	19.2	0.23	0.97 mmol/L	-1.09	0.07

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

QRIS HEALTH,  
F24/25, SECTOR-3, ROHINI,  
Delhi

#### Coordinator Contact Details:

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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.