



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - MARCH 2023



PC-1024

Lab Name TRAUMA CENTRE PATHOLOGY, POST GRADUATE, DEPARTMENT OF PATHOLOGY Lab No 16546

Constituent Group Chemistry I Date of Result Entered : 15/03/2023

PT item Lyophilized human serum based Date of Report Published : 04/04/2023

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	GOD-POD	Biosystems	319	324.71	6.41	20.81	348.6 mg/dL	1.15	2.33
2	UREA	Urease UV / GLDH	Biosystems	282	55.81	8.36	4.67	60.5 mg/dL	1.00	0.56
3	CREATININE	Enzymatic Colorimetric	Biosystems	30	1.98	7.74	0.15	1.75 mg/dL	-1.50	0.06
4	T.BILIRUBIN	Diazonium salt (Colorimetric) / Jendrassik	Biosystems	266	5.20	11.75	0.61	5 mg/dL	-0.33	0.07
5	T-PROTEIN	Biuret - Colorimetric	Biosystems	315	5.35	6.60	0.35	5.45 g/dL	0.28	0.04
6	ALBUMIN	BCG - colorimetric	Biosystems	267	3.17	7.15	0.23	3.41 g/dL	1.06	0.03
7	URIC ACID	Enzymatic / Uricase Colorimetric	Biosystems	276	4.65	8.84	0.41	5.6 mg/dL	2.32	0.05
8	CHOLESTEROL	CHOD-PAP	Biosystems	313	107.53	8.27	8.89	119.3 mg/dL	1.32	1.01
9	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Biosystems	290	144.19	7.60	10.95	154.8 mg/dL	0.97	1.29
10	HDL	Direct method / Enzymatic colorimetric	Biosystems	211	27.00	14.20	3.83	23.12 mg/dL	-1.01	0.53
11	SODIUM	ISE - Direct	Any Analyser (Automation / Semi Automation)	1170	137.65	3.04	4.19	4.08 mmol/L	-31.88	0.24
12	POTASSIUM	ISE - Direct	Any Analyser (Automation / Semi Automation)	1181	4.06	4.95	0.20	140.4 mmol/L	681.7	0.01
13	AST	UV kinetic(with & without PLP (P-5-P))	Biosystems	286	80.52	9.59	7.72	73.2 U/L	-0.95	0.91
14	ALT	UV kinetic(with & without PLP (P-5-P))	Biosystems	279	236.99	10.23	24.24	236.2 U/L	-0.03	2.90
15	ALP	PNP DEA kinetic	Any Analyser (Automation / Semi Automation)	259	79.56	18.89	15.03	80.2 U/L	0.04	1.87
16	AMYLASE	CNPG3	Biosystems	93	105.00	15.86	16.65	138.8 U/L	2.03	3.45
17	MAGNESIUM	Others (Any other principles / Methods)	Any Analyser (Automation / Semi Automation)	130	1.68	20.05	0.34	1.69 mg/dL	0.03	0.06

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

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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 *****

Remark: Outlier in sodium and potassium.

- Typographical error found.
- In place of sodium, potassium result has typed and vice-versa.

$$\text{new SDI for Sodium} = \frac{137.65 - 140.4}{4.19} = -0.65$$

$$\text{new SDI for potassium} = \frac{4.06 - 4.08}{0.20} = -0.10$$

