

## **CHRISTIAN MEDICAL COLLEGE**

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2023



Lab Name	TELANGANA DIAGNOSTIC HUB	Lab No	18032
Constituent Group	Chemistry I	Date of Result Entered :	25/01/2023
PT item	Lyophilized Serum	Date of Report Published :	09/02/2023

SI.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Partic CV	ipants SD	Your Value	SDI	U
1	GLUCOSE	Hexokinase	Any Analyser (Automation / Semi Automation )	157	174.21	4.68	8.15	175 mg/dL	0.10	1.30
2	UREA	Urease UV / GLDH	Any Analyser (Automation / Semi Automation )	588	31.57	10.65	3.36	14 mg/dL	-5.23	0.28
3	CREATININE	Enzymatic Colorimetri	Any Analyser c (Automation / Semi Automation )	138	1.39	10.91	0.15	1.23 mg/dL	-1.05	0.03
4	T.BILIRUBIN	Others ( DPD, Vanadat Oxidation )	(Automation / Semi Automation )	205	3.20	12.17	0.39	4.3 mg/dL	2.82	0.05
5	T-PROTEIN	Biuret - Colorimetric	Any Analyser (Automation / Semi Automation )	956	5.25	9.77	0.51	5.1 g/dL	-0.29	0.03
6	ALBUMIN	BCG - colorimetric	Any Analyser (Automation / Semi Automation )	674	3.31	8.11	0.27	3.2 g/dL	-0.41	0.02
7	CALCIUM	OCPC ( O - Cresolpthalein Compleazone )	Any Analyser (Automation / Semi Automation )	177	9.32	8.24	0.77	8.9 mg/dL	-0.55	0.12
8	URIC ACID	Enzymatic / Uricase Colorimetric	Any Analyser (Automation / Semi Automation )	939	4.83	16.02	0.77	4 mg/dL	-1.07	0.05
9	CHOLESTEROL	CHOD-PAP	Any Analyser (Automation / Semi Automation )	974	113.44	5.89	6.68	118 mg/dL	0.68	0.43
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Poir	Automation )	935	109.13	7.82	8.54	120 mg/dL	1.27	0.56
11	HDL	Direct method / Enzymatic colorimetric	Hatermation	780	30.17	20.45	6.17	26.7 mg/dL	-0.56	0.44
12	SODIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	969	132.67	2.93	3.88	139.3 mmol/L	1.71	0.25
13	POTASSIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	997	3.42	5.15	0.18	3.52 mmol/L	0.57	0.01
14	CHLORIDE	ISE - Direct	Any Analyser (Automation / Semi Automation )	809	97.51	4.13	4.03	106.3 mmol/L	2.18	0.28
15	AST	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	967	50.29	10.00	5.03	65 U/L	2.92	0.32
16	ALT	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	958	57.78	13.00	7.51	68 U/L	1.36	0.49
17	ALP	PNP AMP kinetic	Any Analyser (Automation / Semi Automation )	793	101.50	10.81	10.97	91 U/L	-0.96	0.78
18	AMYLASE	Enzymatic Colorimetri G7PNP Blocked	c (Automation / Semi Automation )	154	44.10	17.79	7.84	56 U/L	1.52	1.26
SDI Range			Interpretation							
Within -1.00 to +1.00			Excellent.							
Within ±1.01 to ±2.00			Good.							
Withi	n ±2.01 to ±2.99		Accept with caution. Warning Signal.							
Beyo	nd ±3.0		Unacceptable performance	nacceptable performance. Action Signal.						

LAB ADDRESS : TELANGANA DIAGNOSTIC HUB GOVERNMENT GENERAL HOSPITAL External Quality Assurance Scheme - Print Monthly Summary

NIZAMABAD TELANGANA503001

Panela Christudoss

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

Coordinator Contact Details: Email:clinqc@cmcvellore.ac.in Contact Number: 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



# **TELANGANA DIAGNOSTICS HUB,** NIZAMABAD

Form: TD/QSP/08-EQCAR

TITLE

Dr. M. SWATHI

### EQAS CORRECTIVE ACTION FORM

Issue No. 01 Page 1 of 1

	EQAS Details CM C-	- EQAS				
	Analyte: Cheron	stry -I				
	Month: Janua	NY - 2023	2			
	Date Sample Tested: 24 -	d1-2022.	ke j			
		25-01-2	023.		٦	
	SPECIMEN HANDLING		Ves U		-	
Were specimens re	eceived in an acceptable condition?		Yes V		۲.	
Were specimens s	tored according to the instructions on the re-	sult forms?	Yes 🗆	No D	1	
Were the samples	hemolyzed?	-	Yes V	No 🗆	-	
Were samples tes	ted within the time allowed for sample stabili	ty?	Yes V	No 🗆	1	
If applicable, were	the samples reconstituted correctly?			rith 2n		
Notes: CMC -		stituted correction			-	
el distilled	inder and all all	nes consecutive	e y	0		
	CLERICAL ERRORS		Yes 🖌	No 🗆		
Were the results t	ranscribed onto the result forms correctly?	te correctly?	Yes 🗸	No 🗆		
Were the results t	ranscribed from the result forms to the webs		Yes 🔽	No 🗆		
Were the results r	ecorded on the correct result form?		Yes 🗸	No □		
Was the correct in	nstrument/reagent/kit selected?	for voea)	Yes 🖌	No 🗆	_	
Were the results r	recorded in the correct units? <u>except</u> on your evaluation the same as the results your		Yes 🔽	No 🗆	_	
		the methods	and	-then	-	
Notes:	rave crosschecked all		ed.		-	
Ontored					-	
Wore quality cont	i to within the acceptable range on	the date of PT testing?	Yes 🗹	No 🗆		
			Yes 🗆	No 🖵	7	
Is there any indica	ation of trending or shifting of the control resu	for all a	malite			
Notes: TQC	is with in the sange				_	,
Notes.	Calibration			4	_	ě
	roblems with the most recent calibration?	- for caleium.	Yes 🖻	No 🗆	_	
Were there any p	st calibration performed?	res the man	ifactives	13	_	
	libration performed?			ructions		2
How offer is a ca	st calibration verification performed? -> R	UNA MEL	oheneve		mation	
Colife	Konin is tone too eve		as the	es the		De.
Notes. Tashing		I verified and		er) al	expled.	r.
Lananifactor	C C	1 19100	6 00	1	<b>_</b>	1
	STRUMENT - Minor Te	enrical issues	· (- >0	mens 1	Feelica	/
				Analy.		
	AD MANAGER - SIRISHA	APPROVED	& ISSUED	BY:		
PREPARED E	SY : LAB MANAGER : SIRISHA	LAB HEAD: Dr. N		<b>TOIVYA</b>		
	BY CONSULTANT BIOCHEMIST	The second se	Jenzon.			
<b>REVIEWED E</b>	IT LUNSULTANT DIE L	D. 4	0	-144		

# CONTROLLED COPY

	TELAN NIZAN	IGANA DIAGNOSTICS HUB, IABAD	Form: TD/QSP/08-EQCAI				
The Dist	TITLE	FOAS CODDECTIVE A CENON DODA	Issue No. 01				
		EQAS CORRECTIVE ACTION FORM	Page 1 of 1				
	20191	The country of the country of the second					

Were instrument problems noted the day the samples were tested? - Minor breakdow	Yes		No		
Has there been any recent maintenance on the analyzer?	Yes		No		
Have you contacted your analyzer manufacturer for assistance? Yes I No					
Notes: Minor Greak downs like respect probe alignment Wate consultion legge - contained manual dorses	and	issne L o	ecti		H

REAGENTS			/	
Were the reagents stored properly?	Yes	Ø	No	
Were the reagents expired or was the open vial stability exceeded?	Yes		No	
Have there been any changes in reagent manufacturer or formulation?	Yes		No	Þ
Notes: All the reagents where Stored property	4.			
Notes: - the designed such such such such				
0				

TESTING PERSONNEL	
Date of last competency assessment for testing personnel $(0 - 1 - 202)$ Yes $1$ No $\Box$	
Review assay procedure and proficiency test sample preparation instructions with testing personnel to ensure that instructions were followed Yes 🖈 No 🗆	
Review with testing personnel how samples were loaded to rule out misidentification or transposition of samples.	
Notes: The technicians were trained and the tacutry at T-Hills Super	Vise te
corrective actions. EQAS sample is sun soutinely as provent	Samples.
corrective Action: - The CMe sample (Jan) is aliquotted after our and	l.
Stored at - 20°C. This sample is re-run for all the	11.
analytes, crossed 250, on 13-02-2023 and the res	ults
approved Mean + 25	D
AST Value is 60 and on sample (50.29+ 2x 5	·03)
D use value is wrongly rentered as BUN value on	\$
	±223.36
3 T. Bilisubin value, re-run is 3.8 and in range (3.20 +	2×0.39)
(4) chloride se-sun value is 104 and in sange (97.51 I	2×4.00)
Person Performing Investigation: Mrs. Shiva (L-T-Biochemiter) Date: 24 8 25 J Consultant Biochemist Dr. M. Bwathi Barthu	an-2023 223 ,
PREPARED BY : LAB MANAGER : SIRISHA APPROVED & ISSUED BY:	

PREPARED BY : LAB MANAGER : SIRISHA	APPROVED & ISSUED BY: LAB HEAD: Dr. NADIPALLY DIVYA
REVIEWED BY CONSULTANT BIOCHEMIST	N. Dinger.

Form: TD/QSP/08-EQCAR

TITLE

#### **INVESTIGATION SUMMARY: ROOT CAUSE**

Post-Analytic Phase of Testing Pre-analytic Phase of Testing Analytic Phase of Testing CLERICAL ERROR METHODOLOGICAL PROBLEM PROBLEM WITH PT SAMPLE REPORTING PROBLEM TECHNICAL PROBLEM SAMPLE PROCESSING NO EXPLANATION AFTER REAGENT PROBLEM DATA ENTRY INVESTIGATION. **CALIBRATOR PROBLEM** OTHER (SPECIFY): **OTHER (SPECIFY):** DOTHER (SPECIFY): - NO --NO-FOS UP PREVENTION Preventive action proposed - Here after, maintenance schedule and calibration schedule - These areas, maintenance scheaue and automatic scheaute in followed as per 3.0. p: IQC is reviewed daily by faculty. - In view of fiequent minor preakdowns, preventive maintenance = instrument is recommended & contacted the manufactures. Preventive action Plan - Uter value is enabled for CMC-EQAS (instead of BUN) - All parameters IQC is maintained for and supervised by facuety of Diochemistry. If any outliers thends shifts, ponsibility corrective action is taken accordingly. Responsibility The faculty of Biochemistry in T-Hub supervise the routine work unber the guidance of consultant Biochemist and Lab pirector. Mr. shiva IL.T 13-02-202 **Testing Personnel** Date cRe-sun Department Technical In charges . Som deep Date 6-02-2022 pr M- South PREPARED BY : LAB MANAGER : SIRISHA **APPROVED & ISSUED BY:** LAB HEAD: Dr. NADIPALLY DIVYA **REVIEWED BY CONSULTANT BIOCHEMIST** N. Komyou Dr. M. SWATHI

**CONTROLLED COPY** 



## CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - FEBRUARY 2023



Lab Name	TELANGANA DIAGNOSTIC HUB	Lab No	18032
Constituent Group	Chemistry I	Date of Result Entered :	20/02/2023
PT item	Lyophilized human serum based	Date of Report Published :	08/03/2023

SI.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Partic CV	ipants SD	Your Value	SDI	U
1	GLUCOSE	Hexokinase	Any Analyser (Automation / Semi Automation )	182	120.06	5.58	6.70	120 mg/dL	-0.01	0.99
2	UREA	Urease UV / GLDH	Any Analyser (Automation / Semi Automation )	648	129.71	8.40	10.90	128.7 mg/dL	-0.09	0.86
3	CREATININE	Enzymatic Colorimetri	Any Analyser c (Automation / Semi Automation )	151	5.17	6.52	0.34	4.95 mg/dL	-0.65	0.05
4	T.BILIRUBIN	Others ( DPD, Vanadat Oxidation )	e Any Analyser (Automation / Semi Automation )	211	1.48	14.72	0.22	1.8 mg/dL	1.47	0.03
5	T-PROTEIN	Biuret - Colorimetric	'Any Analyser (Automation / Semi Automation )	1100	4.63	9.80	0.45	4.1 g/dL	-1.17	0.03
6	ALBUMIN	BCG - colorimetric	Any Analyser (Automation / Semi Automation )	730	2.91	8.69	0.25	2.7 g/dL	-0.83	0.02
7	CALCIUM	OCPC ( O - Cresolpthalein Compleazone )	Any Analyser (Automation / Semi Automation )	195	10.23	8.50	0.87	10.4 mg/dL	0.20	0.12
8	URIC ACID	Enzymatic / Uricase Colorimetric	Any Analyser (Automation / Semi Automation )	1011	6.92	10.14	0.70	6.2 mg/dL	-1.03	0.04
9	CHOLESTEROL	CHOD-PAP	Any Analyser (Automation / Semi Automation )	1046	98.66	7.43	7.33	100 mg/dL	0.18	0.45
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Poin	Automation / Semi Automation )	988	87.48	8.82	7.72	92 mg/dL	0.59	0.49
11	HDL	Direct method / Enzymatic colorimetrie	Automation	714	28.16	19.26	5.42	20.3 mg/dL	-1.45	0.41
12	SODIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	1147	120.46	4.12	4.96	126.4 mmol/L	1.20	0.29
13	POTASSIUM	ISE - Direct	Any Analyser (Automation / Semi Automation )	1129	5.00	5.46	0.27	4.86 mmol/L	-0.51	0.02
14	CHLORIDE	ISE - Direct	Any Analyser (Automation / Semi Automation )	921	92.85	4.47	4.15	98.7 mmol/L	1.41	0.27
15	AST	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	1021	190.14	15.11	28.72	251 U/L	2.12	1.80
16	ALT	UV kinetic(with & without PLP (P-5-P))	Any Analyser (Automation / Semi Automation )	1025	49.30	15.70	7.74	52 U/L	0.35	0.48
17	AMYLASE	Enzymatic Colorimetr / G7PNP Blocked	ic Any Analyser (Automation / Semi Automation )	187	79.27	16.96	13.45	102 U/L	1.69	1.97
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.							
Beyo	and ±3.0		Unacceptable performance. Action Signal.							

LAB ADDRESS : TELANGANA DIAGNOSTIC HUB **GOVERNMENT GENERAL HOSPITAL** NIZAMABAD TELANGANA503001

External Quality Assurance Scheme - Print Monthly Summary

Panela Christudos

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