



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

ALL ANALYSER SUMMARY REPORT - OCTOBER 2022



Lab Name **ARASU DIAGNOSTIC CENTRE**

Lab No **2405**

Constituent Group **Chemistry I**

Date of Result Entered **20/10/2022**

PT item **Lyophilized Serum**

Date of Report Published **03/11/2022**

Sl.No	Constituent Name	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	GOD-POD	Siemens (Advia Series / Dimension Series)	38	110.97	7.08	7.86			2.55
			Mindray	192	112.72	5.86	6.60			0.95
			Biosystems	299	109.54	6.80	7.45	119 mg/dL	1.27	0.86
			Transasia / Erba	916	114.55	6.42	7.35			0.49
			Agape	158	113.43	6.18	7.01			1.12
			Randox rX Series	46	112.43	5.53	6.21			1.83
			CPC (Turbochem 100 / 240 Prime)	70	107.01	7.87	8.42			2.01
			Any Analyser (Automation / Semi Automation)	746	110.76	7.99	8.85			0.65
2	UREA	Urease UV / GLDH	Roche C111, C311, Integra 400 plus, C501, C502, C702	302	128.21	5.31	6.81			0.78
			Beckman AU480/680/5800/DXC700AU	207	131.10	5.16	6.76			0.94
			Siemens (Advia Series / Dimension Series)	123	130.55	5.42	7.07			1.28
			Mindray	235	129.02	7.49	9.66			1.26
			Biosystems	282	120.13	7.21	8.66	127.4 mg/dL	0.84	1.03
			Transasia / Erba	895	130.44	7.26	9.47			0.63
			Agape	181	127.43	7.14	9.10			1.35
			Randox rX Series	51	129.35	8.11	10.50			2.94
			CPC (Turbochem 100 / 240 Prime)	65	128.77	8.53	10.98			2.72
			Any Analyser (Automation / Semi Automation)	652	126.23	9.59	12.11			0.95
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Roche C111, C311, Integra 400 plus, C501, C502, C702	257	8.36	5.49	0.46			0.06
			Beckman AU480/680/5800/DXC700AU	152	8.19	5.74	0.47			0.08
			Siemens (Advia Series / Dimension Series)	108	8.34	4.24	0.35			0.07
			Mindray	127	7.78	11.90	0.93			0.16
			Biosystems	228	7.58	9.72	0.74	7.97 mg/dL	0.53	0.10
			Transasia / Erba	442	7.70	9.52	0.73			0.07
			Agape	105	7.02	9.22	0.65			0.13
			Randox rX Series	38	7.09	9.98	0.71			0.23
			CPC (Turbochem 100 / 240 Prime)	61	7.78	8.71	0.68			0.17
			Any Analyser (Automation / Semi Automation)	529	7.71	10.73	0.83			0.07
4	T.BILIRUBIN	Diazonium salt (Roche C111, C311, Integra	287	5.35	5.55	0.30			0.04

		Colorimetric) / Jendrassik	400 plus, C501, C502, C702							
			Beckman AU480/680/5800/DXC700AU	167	5.89	4.07	0.24			0.04
			Siemens (Advia Series / Dimension Series)	114	5.61	3.46	0.19			0.04
			Mindray	205	5.54	10.49	0.58			0.08
			Biosystems	282	5.48	10.41	0.57	6 mg/dL	0.91	0.07
			Transasia / Erba	929	5.76	9.20	0.53			0.03
			Agape	167	5.70	9.89	0.56			0.09
			Randox rX Series	39	6.04	9.39	0.57			0.18
			CPC (Turbochem 100 / 240 Prime)	74	5.54	8.66	0.48			0.11
			Any Analyser (Automation / Semi Automation)	667	5.68	12.89	0.73			0.06
5	T-PROTEIN	Biuret - Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	303	5.07	4.16	0.21			0.02
			Beckman AU480/680/5800/DXC700AU	200	5.08	3.94	0.20			0.03
			Siemens (Advia Series / Dimension Series)	121	5.21	3.41	0.18			0.03
			Mindray	244	5.48	7.03	0.38			0.05
			Biosystems	307	5.54	7.43	0.41	5.7 g/dL	0.39	0.05
			Transasia / Erba	946	5.83	7.82	0.46			0.03
			Agape	186	5.52	6.36	0.35			0.05
			Randox rX Series	54	5.30	6.57	0.35			0.09
			CPC (Turbochem 100 / 240 Prime)	71	5.28	8.67	0.46			0.11
			Any Analyser (Automation / Semi Automation)	801	5.61	9.70	0.54			0.04
6	ALBUMIN	BCG - colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	280	3.32	4.52	0.15			0.02
			Beckman AU480/680/5800/DXC700AU	201	3.15	4.09	0.13			0.02
			Siemens (Advia Series / Dimension Series)	53	3.18	6.39	0.20			0.06
			Mindray	228	3.36	7.21	0.24			0.03
			Biosystems	294	3.30	8.35	0.28	3.5 g/dL	0.72	0.03
			Transasia / Erba	951	3.31	5.80	0.19			0.01
			Agape	184	3.55	6.00	0.21			0.03
			Randox rX Series	52	3.23	4.34	0.14			0.04
			CPC (Turbochem 100 / 240 Prime)	71	3.33	6.85	0.23			0.05
			Any Analyser (Automation / Semi Automation)	766	3.35	7.79	0.26			0.02
7	CALCIUM	Arsenazo III	Beckman AU480/680/5800/DXC700AU	193	11.03	3.70	0.41			0.06
			Mindray	192	10.84	7.15	0.78			0.11
			Biosystems	213	10.91	8.01	0.87			0.12
			Transasia / Erba	676	10.97	8.99	0.99			0.08
			Agape	132	11.12	7.55	0.84			0.15
			Randox rX Series	45	11.16	5.51	0.62			0.18
			CPC (Turbochem 100 / 240 Prime)	54	11.03	8.27	0.91			0.25
			Any Analyser (Automation / Semi Automation)	640	10.60	8.98	0.95	10.7 mg/dL	0.10	0.08
8	PHOSPHORUS	Molybdate UV / Phosphomolybdate complex	Roche C111, C311, Integra 400 plus, C501, C502, C702	237	7.10	4.07	0.29			0.04
			Beckman AU480/680/5800/DXC700AU	161	7.07	4.41	0.31			0.05
			Siemens (Advia Series / Dimension Series)	64	7.25	4.51	0.33			0.08
			Mindray	147	6.68	9.97	0.67			0.11

			Biosystems	121	7.15	11.25	0.80			0.15
			Transasia / Erba	439	7.14	9.90	0.71			0.07
			Agape	93	7.07	6.68	0.47			0.10
			Randox rX Series	35	6.90	6.71	0.46			0.16
			CPC (Turbochem 100 / 240 Prime)	33	6.94	9.54	0.66			0.23
			Any Analyser (Automation / Semi Automation)	404	6.82	11.97	0.82	6.2 mg/dL	-0.76	0.08
9	URIC ACID	Enzymatic / Uricase Colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	295	5.90	4.98	0.29			0.03
			Beckman AU480/680/5800/DXC700AU	199	5.92	3.06	0.18			0.03
			Siemens (Advia Series / Dimension Series)	111	5.90	3.07	0.18			0.03
			Mindray	241	6.06	8.60	0.52			0.07
			Biosystems	302	6.88	8.65	0.60	6.9 mg/dL	0.03	0.07
			Transasia / Erba	940	6.56	9.17	0.60			0.04
			Agape	195	6.08	9.85	0.60			0.09
			Randox rX Series	54	5.96	7.25	0.43			0.12
			CPC (Turbochem 100 / 240 Prime)	73	6.17	8.36	0.52			0.12
			Any Analyser (Automation / Semi Automation)	748	6.25	13.83	0.86			0.06
10	CHOLESTEROL	CHOD-PAP	Roche C111, C311, Integra 400 plus, C501, C502, C702	301	107.60	4.40	4.74			0.55
			Beckman AU480/680/5800/DXC700AU	197	109.07	5.96	6.50			0.93
			Siemens (Advia Series / Dimension Series)	106	88.72	7.02	6.23			1.21
			Mindray	249	110.37	6.54	7.22			0.91
			Biosystems	323	110.48	7.23	7.99	111 mg/dL	0.07	0.89
			Transasia / Erba	918	105.66	8.20	8.66			0.57
			Agape	196	107.16	7.55	8.09			1.16
			Randox rX Series	56	119.90	6.39	7.66			2.05
			CPC (Turbochem 100 / 240 Prime)	73	109.23	7.98	8.72			2.04
			Any Analyser (Automation / Semi Automation)	756	111.32	8.47	9.43			0.69
11	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Roche C111, C311, Integra 400 plus, C501, C502, C702	283	147.88	4.11	6.08			0.72
			Beckman AU480/680/5800/DXC700AU	199	135.52	4.84	6.55			0.93
			Siemens (Advia Series / Dimension Series)	119	140.49	6.17	8.66			1.59
			Mindray	238	136.98	7.93	10.87			1.41
			Biosystems	270	137.41	7.29	10.01	153 mg/dL	1.56	1.22
			Transasia / Erba	887	117.66	8.49	9.99			0.67
			Agape	185	130.35	7.17	9.34			1.37
			Randox rX Series	58	143.42	5.97	8.56			2.25
			CPC (Turbochem 100 / 240 Prime)	66	125.98	10.98	13.84			3.41
			Any Analyser (Automation / Semi Automation)	748	138.64	11.17	15.48			1.13
12	HDL	Direct method / Enzymatic colorimetric	Roche C111, C311, Integra 400 plus, C501, C502, C702	275	23.94	5.47	1.31			0.16
			Beckman AU480/680/5800/DXC700AU	168	24.66	5.89	1.45			0.22
			Siemens (Advia Series / Dimension Series)	98	27.52	9.47	2.61			0.53
			Mindray	183	25.97	10.48	2.72			0.40
			Biosystems	208	27.55	13.78	3.80	31.2 mg/dL	0.96	0.53
			Transasia / Erba	704	27.93	11.08	3.10			0.23

			Agape	152	26.36	8.76	2.31			0.37
			Randox rX Series	42	25.77	8.70	2.24			0.69
			CPC (Turbochem 100 / 240 Prime)	46	25.84	14.71	3.80			1.12
			Any Analyser (Automation / Semi Automation)	496	27.84	14.72	4.10			0.37
13	SODIUM	ISE - Direct	Transasia / Erba	201	129.99	3.00	3.90			0.55
			Any Analyser (Automation / Semi Automation)	1055	130.41	3.40	4.43	133.8 mmol/L	0.77	0.27
14	POTASSIUM	ISE - Direct	Transasia / Erba	212	4.32	4.40	0.19			0.03
			Any Analyser (Automation / Semi Automation)	1086	4.31	5.25	0.23	4.37 mmol/L	0.27	0.01
15	CHLORIDE	ISE - Direct	Transasia / Erba	144	97.48	3.90	3.80			0.63
			Any Analyser (Automation / Semi Automation)	904	97.99	4.49	4.40	97.9 mmol/L	-0.02	0.29
16	BICARBONATE	Enzymatic - PEPC (Phosphoenolpyruvate)	Roche C111, C311, Integra 400 plus, C501, C502, C702	31	14.72	8.39	1.23			0.44
			Any Analyser (Automation / Semi Automation)	173	18.58	19.54	3.63	17 mmol/L	-0.44	0.55
17	AST	UV kinetic(with & without PLP (P-5-P))	Roche C111, C311, Integra 400 plus, C501, C502, C702	272	36.44	7.95	2.90			0.35
			Beckman AU480/680/5800/DXC700AU	186	41.26	7.14	2.95			0.43
			Siemens (Advia Series / Dimension Series)	111	53.78	9.33	5.02			0.95
			Mindray	222	37.45	9.82	3.68			0.49
			Biosystems	265	42.60	10.77	4.59	44.7 U/L	0.46	0.56
			Transasia / Erba	844	38.01	14.25	5.42			0.37
			Agape	176	35.53	13.07	4.64			0.70
			Randox rX Series	48	39.65	9.06	3.59			1.04
			CPC (Turbochem 100 / 240 Prime)	58	38.45	14.93	5.74			1.51
			Any Analyser (Automation / Semi Automation)	687	38.71	14.68	5.68			0.43
18	ALT	UV kinetic(with & without PLP (P-5-P))	Roche C111, C311, Integra 400 plus, C501, C502, C702	275	298.70	8.96	26.77			3.23
			Beckman AU480/680/5800/DXC700AU	187	316.82	8.74	27.70			4.05
			Siemens (Advia Series / Dimension Series)	102	338.19	9.90	33.47			6.63
			Mindray	211	309.33	16.40	50.72			6.98
			Biosystems	263	314.95	13.33	41.98	364.9 U/L	1.19	5.18
			Transasia / Erba	819	276.92	16.40	45.41			3.17
			Agape	152	303.43	16.06	48.73			7.91
			Randox rX Series	42	336.21	13.28	44.64			13.78
			CPC (Turbochem 100 / 240 Prime)	39	257.59	15.89	40.93			13.11
			Any Analyser (Automation / Semi Automation)	632	273.06	19.96	54.49			4.34
19	ALP	PNP AMP kinetic	Roche C111, C311, Integra 400 plus, C501, C502, C702	285	200.84	6.85	13.76			1.63
			Beckman AU480/680/5800/DXC700AU	195	236.20	9.68	22.86			3.27
			Siemens (Advia Series / Dimension Series)	110	188.50	6.90	13.00			2.48
			Mindray	168	230.13	14.46	33.27			5.13
			Biosystems	284	222.75	12.48	27.80	222 U/L	-0.03	3.30
			Transasia / Erba	816	209.35	15.19	31.81			2.23
			Agape	92	230.45	17.38	40.06			8.35
			Randox rX Series	48	206.96	11.72	24.26			7.00
			CPC (Turbochem 100 / 240 Prime)	66	223.25	12.17	27.17			6.69

			Any Analyser (Automation / Semi Automation)	537	202.06	16.96	34.28			2.96
20	AMYLASE	CNPG3	Beckman AU480/680/5800/DXC700AU	80	94.73	8.87	8.40			1.88
			Siemens (Advia Series / Dimension Series)	61	99.59	5.51	5.48			1.40
			Biosystems	95	102.95	12.36	12.73	86 U/L	-1.33	2.61
			Transasia / Erba	430	74.20	16.57	12.29			1.19
			Agape	80	82.05	12.33	10.12			2.26
			CPC (Turbochem 100 / 240 Prime)	23	102.29	10.02	10.25			4.28
			Any Analyser (Automation / Semi Automation)	417	98.84	15.63	15.45			1.51

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 *****