

Department of Biochemistry

Internal Quality Control (IQC) & CV% (Biochemistry)

S.NO	Date	Nature of Problem	Root cause analysis and corrective and preventive actions	Date of Closure	Signature
1	03/01/2022 (Date of Result)	Value of CV% of Glucose was high	We have done the machine maintenance checked for all parameter's, Distilled water has been changed, Probe has been checked and changed, again all parameter has been recalibrated by the service engineer. Temperature record were checked. Then value reports came normal.	22/02/2022	Janta DM

IMPULSE  
DIAGNOSTICS



## LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**  
 Month **December** Year **2021**  
 Constituent Group **Chemistry I**



Date of Result Entered : 03/12/2021

Date of Report Published : 03/01/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE	Hexokinase	Siemens ( Advia Series / Dimension Series )	86	186.26	3.53	6.57	166 mg/dl	-3.09	1.42
2	UREA	Urease UV / GLDH	Siemens ( Advia Series / Dimension Series )	108	89.78	5.81	5.21	88 mg/dl	-0.34	1.00
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Siemens ( Advia Series / Dimension Series )	96	7.33	3.89	0.28	7.14 mg/dl	-0.67	0.06
4	T.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Siemens ( Advia Series / Dimension Series )	105	2.41	4.78	0.12	2.4 mg/dl	-0.09	0.02
5	T-PROTEIN	Biuret - Colorimetric	Siemens ( Advia Series / Dimension Series )	109	5.07	3.43	0.17	5.1 g/dl	0.17	0.03
6	ALBUMIN	BCP - Bromocresol purple ( colorimetric )	Siemens ( Advia Series / Dimension Series )	89	3.05	5.48	0.17	2.9 g/dl	-0.90	0.04
7	CALCIUM	OCPC ( O - Cresolphthalein Compleazone )	Siemens ( Advia Series / Dimension Series )	60	10.47	5.46	0.57	10.9 mg/dl	0.75	0.15
8	URIC ACID	Enzymatic / Uricase Colorimetric	Siemens ( Advia Series / Dimension Series )	100	8.81	3.58	0.32	8.7 mg/dl	-0.35	0.06
9	CHOLESTEROL	CHOD-PAP	Siemens ( Advia Series / Dimension Series )	106	88.50	6.50	5.75	83 mg/dl	-0.96	1.12
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Siemens ( Advia Series / Dimension Series )	102	204.83	3.89	7.98	192 mg/dl	-1.61	1.58
11	HDL CHO	Direct method / Enzymatic colorimetric	Siemens ( Advia Series / Dimension Series )	95	26.50	5.34	1.42	27 mg/dl	0.35	0.29
12	AST	UV kinetic with PLP ( P-5-P )	Siemens ( Advia Series / Dimension Series )	99	117.92	6.33	7.46	106 U/L	-1.60	1.50
13	ALT	UV kinetic with PLP ( P-5-P )	Siemens ( Advia Series / Dimension Series )	91	66.71	9.89	6.60	51 U/L	-2.38	1.38
14	ALP	PNP AMP kinetic	Siemens ( Advia Series / Dimension Series )	95	198.87	7.44	14.79	165 U/L	-2.29	3.04
15	AMYLASE	CNPG3	Siemens ( Advia Series / Dimension Series )	63	56.08	5.65	3.17	52 U/L	-1.29	0.80
16	IRON	Ferrene ( No Protein Removal )	Siemens ( Advia Series / Dimension Series )	26	75.99	6.58	5.00	69 ug/dl	-1.40	1.96

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.

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

**Contact details:**

**Email:** [clinq@cmcvellore.ac.in](mailto:clinq@cmcvellore.ac.in)

**Contact Number:** 0416-2283102

*Pamela Christudoss*

**Dr. Pamela Christudoss**  
**CMC EQAS Co-Ordinator**  
**Christian Medical College, Vellore**

**\*\*\*\*\* End of Report \*\*\*\*\***

## LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**  
 Month **December** Year **2021**  
 Constituent Group **HbA1c**

Date of Result Entered : **03/12/2021**Date of Report Published : **03/01/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	HbA1c	HPLC-Ion Exchange	Biorad ( D10 / D100 / Variant Turbo )	549	5.91	4.90	0.29	5.9 %	-0.03	0.02

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

Homogeneity and Stability of the sample is passed.

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Contact details:

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Contact Number: 0416-2283102

Dr. Pamela Christudoss  
 CMC EQAS Co-Ordinator  
 Christian Medical College, Vellore

\*\*\*\*\* End of Report \*\*\*\*\*

## LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**  
 Month **December** Year **2021**  
 Constituent Group **Reproductive Hormones**

Date of Result Entered : **03/12/2021**Date of Report Published : **03/01/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	LH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	71	10.42	10.69	1.11	11.36 mIU/mL	0.84	0.26
2	FSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	65	18.11	12.77	2.31	22.06 mIU/mL	1.71	0.57
3	PROLACTIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	78	45.66	9.77	4.46	47.58 ng/mL	0.43	1.01

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

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 CMC EQAS Co-Ordinator  
 Christian Medical College, Vellore

\*\*\*\*\* End of Report \*\*\*\*\*

## LAB MONTHLY SUMMARY



Lab Name **IMPULSE DIAGNOSTICS** Lab No **14869**  
 Month **December** Year **2021**  
 Constituent Group **Thyroid Hormones & Cortisol**

Date of Result Entered : **03/12/2021**Date of Report Published : **03/01/2022**

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	TOTAL THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	104	6.82	9.43	0.64	6.5 ug/dL	-0.50	0.13
2	FREE THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	81	1.85	11.40	0.21	1.68 ng/dL	-0.81	0.05
3	TSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	121	6.89	10.73	0.74	6.78 uIU/ml	-0.15	0.13
4	TOTAL T3	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	104	116.44	11.42	13.30	107 ng/dL	-0.71	2.61

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

Homogeneity and Stability of the sample is passed.

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\*\*\*\*\* End of Report \*\*\*\*\*



# CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Chemistry I	Date of Result Entered :	19/01/2022
PT item	Lyophilized Serum	Date of Report Published :	07/02/2022

SI.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE	Hexokinase	Siemens ( Advia Series / Dimension Series )	82	132.31	4.25	5.63	134 mg/dl	0.30	1.24
2	UREA	Urease UV / GLDH	Siemens ( Advia Series / Dimension Series )	103	46.75	7.11	3.32	45 mg/dl	-0.53	0.66
3	CREATININE	Jaffes Kinetic - Alkaline picrate	Siemens ( Advia Series / Dimension Series )	94	1.78	5.90	0.10	1.68 mg/dl	-0.95	0.02
4	T.BILIRUBIN	Diazonium salt ( Colorimetric ) / Jendrassik	Siemens ( Advia Series / Dimension Series )	102	2.35	5.19	0.12	2.3 mg/dl	-0.41	0.02
5	T-PROTEIN	Biuret - Colorimetric	Siemens ( Advia Series / Dimension Series )	103	4.80	3.31	0.16	5.1 g/dl	1.89	0.03
6	ALBUMIN	BCP - Bromocresol purple ( colorimetric )	Siemens ( Advia Series / Dimension Series )	75	2.84	5.31	0.15	2.9 g/dl	0.40	0.03
7	CALCIUM	OCPC ( O - Cresolphthalein Compleazone )	Siemens ( Advia Series / Dimension Series )	66	8.64	4.92	0.42	8.6 mg/dl	-0.09	0.10
8	URIC ACID	Enzymatic / Uricase Colorimetric	Siemens ( Advia Series / Dimension Series )	97	6.79	3.99	0.27	6.8 mg/dl	0.04	0.05
9	CHOLESTEROL	CHOD-PAP	Siemens ( Advia Series / Dimension Series )	96	82.69	7.06	5.84	87 mg/dl	0.74	1.19
10	TRIGLYCERIDE	GPO-PAP / Enzymatic Colorimetric / End Point	Siemens ( Advia Series / Dimension Series )	100	128.52	4.95	6.36	127 mg/dl	-0.24	1.27
11	HDL CHO	Direct method / Enzymatic colorimetric	Siemens ( Advia Series / Dimension Series )	89	25.37	7.80	1.98	26 mg/dl	0.32	0.42
12	ALP	PNP AMP kinetic	Siemens ( Advia Series / Dimension Series )	96	65.23	7.85	5.12	89 U/L	4.64	1.05
13	AMYLASE	CNPG3	Siemens ( Advia Series / Dimension Series )	52	40.62	5.74	2.33	42 U/L	0.59	0.65
14	IRON	Ferrene ( No Protein Removal )	Siemens ( Advia Series / Dimension Series )	25	136.25	3.41	4.64	136 ug/dl	-0.05	1.86

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

LAB ADDRESS :  
IMPULSE DIAGNOSTICS

HAILAKANDI ROAD  
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Homogeneity and Stability of the sample is passed.

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CMC EQAS does not sub contract any components

\*\*\*\*\* End of Report \*\*\*\*\*





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DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	HbA1c	Date of Result Entered :	19/01/2022
PT item	Lyophilized Whole blood	Date of Report Published :	07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	HbA1c	HPLC-Ion Exchange	Biorad ( D10 / D100 / Variant Turbo )	545	6.22	4.60	0.29	6.1 %	-0.42	0.02

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

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DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME

MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Reproductive Hormones	Date of Result Entered :	19/01/2022
PT item	Lyophilized Serum	Date of Report Published :	07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	LH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	68	2.08	10.80	0.22	2.1 mIU/mL	0.09	0.05
2	FSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	69	13.66	11.29	1.54	14.39 mIU/mL	0.47	0.37
3	PROLACTIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	71	6.29	6.95	0.44	6.4 ng/mL	0.25	0.10

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

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MONTHLY SUMMARY REPORT - JANUARY 2022



PC-1024

Lab Name	IMPULSE DIAGNOSTICS	Lab No	14869
Constituent Group	Thyroid Hormones & Cortisol	Date of Result Entered :	19/01/2022
PT item	Lyophilized Serum	Date of Report Published :	07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	TOTAL THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	104	5.28	12.11	0.64	4.4 ug/dL	-1.38	0.13
2	FREE THYROXIN	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	88	1.56	9.88	0.15	1.81 ng/dL	1.62	0.03
3	TSH	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	117	1.38	11.26	0.16	1.36 uIU/ml	-0.13	0.03
4	TOTAL T3	CLIA-Chemiluminescence immunoassay / CMIA	Siemens Advia centaur, Immulite, Atellica Series	102	93.79	11.47	10.76	112 ng/dL	1.69	2.13

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

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