

Calibration Certificate

Model Name: PRIESTEST TOUCH Sr. No: AT1550815RBK The Medical Officer Govt. Primary Health Centre, Mudalur.	Certificate No. : Analyzer-ATCD-361/2023-2024 Date of Calibration : 04.10.2023 Calibration Due on : 03.10.2024
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STANDARD USED FOR CALIBRATION

Parameters	Inst. Name & Sr. No.	Cert. No.	Calibrated by	Validity
Temperature Calibration	Digital Thermometer	UCS/CAL/21100315	Universal Instrument	31/12/2024
Temperature Calibration	Digital Thermometer	UCS/CAL/21100314	Universal Instrument	31/12/2024
Film readings Calibration	Spectrophotometer, Make, Shimadzu, Model No. UV-1800, Sr. No. A-1145 4702871	REG/18/2207	QC dept. of Raigunt Robonik India Pvt.Ltd	31/12/2024

OBSERVATIONS (Temperature Calibration)

Temperature Details	Incubator Temperature	Cuvette Temperature
Thermometer Sr. No.	025	012
Observed Value	37.5°C	37.4°C
Range	37°C (± 1°C)	37°C (± 0.5°C)

OPTICAL FILM READING CALIBRATION

Wavelength	Film Type	Range	Absorbance Obtained
340 nm	1SP	0.540 - 0.620	0.890
	1HP + 1SP	0.842 - 0.975	0.914
	1TP	1.627 - 1.853	1.737
	2DP + 1HP	2.643 - 3.427	2.714
405 nm	1SP	0.307 - 0.348	0.318
	1TP	0.929 - 1.062	1.007
	2DP + 1HP	1.432 - 1.642	1.572
	3TP	2.809 - 3.318	3.034
510 nm	1SP	0.299 - 0.337	0.300
	1TP	0.913 - 1.054	0.997
	2DP + 1HP	1.386 - 1.576	1.505
	3TP	2.784 - 3.232	2.997
545 nm	1SP	0.264 - 0.313	0.286
	1TP	0.844 - 0.956	0.918
	2DP + 1HP	1.287 - 1.446	1.393
	3TP	2.512 - 2.849	2.790
578 nm	1SP	0.265 - 0.302	0.292
	1TP	0.791 - 0.904	0.874
	2DP + 1HP	1.200 - 1.391	1.337
	3TP	2.387 - 2.702	2.660
630 nm	1SP	0.300 - 0.352	0.331
	1TP	0.977 - 1.115	1.065
	2DP + 1HP	1.443 - 1.648	1.584
	3TP	2.806 - 3.230	3.165

Biochemistry Analyzer bearing serial no. AT1550815RBK has been calibrated for above parameter and found to be within its acceptance criteria.

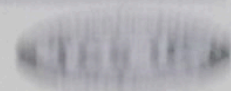


calibrated by:

M.P.S

Approved by:

[Signature]



REPORT ON

ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION

Report No. MS-TR-02-0113	Estimate No. 10-08-2013
Page 1 of 2	Contract No. 10-08-2013
1.1 CUSTOMER DETAILS	
Name and address of the organization	PRIMARY HEALTH CENTER ALHAMBRA, SAN FRANCISCO CALIFORNIA FACHS/MS/0000
Reference and Date	AS PER THE SIGN CONFIRMATION
Test performed by	MECOM 0001

1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)

Name/Make	CENTRIFUGE
A. Manufactured by	BCI
B. Model	BCI
C. Serial No.	BC 1117

1.3 CONDITION OF THE ITEM WHEN RECEIVED

No visible damage and in working order

1.4 Applicable Specification: IEC 60601-1

1.5 Test Done: Performance Test and Electrical Safety Test

1.6 STATUS

Manufactures Specification	Users Specification	Within Specification	Out of Specification	Calibration	Electrical Safety Test	Performance Analysis
✓		✓		✓	✓	✓

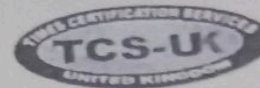
1.7 TRACEABILITY DETAILS OF INSTRUMENTS USED FOR TESTING

SL No	Name of the Instrument	Make	Model	Serial No	Exp Date
1.	ELECTRICAL SAFETY ANALYZER	FLUKE	ESA 612	3005050	MAY 2013
2.	DIGITAL TACHOMETER	LUTRON	DT 2230	0656879	SEP 2013



MECOM SERVICES

Reg Office
15/582B, ST MARY'S BUILDING, AM ROAD, SOUTH VAZHAKULAM, ALIYA,
COCHIN - 683105
Ph: 8589015996 / 25996 E Mail: mecomcalibration@gmail.com Web: www.mecomservices.in



REPORT ON	
ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION	
Report No: MS/TR/22/M14	Calibration Date: 10-08-2022
Page 1 Of 2	Calibration Due: 10-08-2023
1.1 CUSTOMER DETAILS	
Name and address of the organisation	PRIMARY HEALTH CENTER MUDALUR, SANTHANKULAM TOOTHUKKUDI TAMILNADU-628702
Reference and Date	AS PER THE MAIL CONFIRMATION
Test performed by	MECOM team-1

1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)	
Nomenclature	MICROSCOPE
A. Manufactured by	LABOMED
B. Model	VISION-2000
C. Serial No.	CM/L9435282
1.3 CONDITION OF THE ITEM WHEN RECEIVED	
No visible damage and in working order	
1.4 Applicable Specification	IEC Specification IEC 60601-1

1.5 Test Done	Electrical Safety Test
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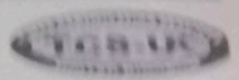
1.6 STATUS						
Manufactures Specification	Users Specification	Within Specification	Out of Specification	Calibration	Electrical Safety Test	Perform Analy
✓	-	✓	-	-	✓	-

1.7 TRACEABILITY DETAILS OF INSTRUMENTS USED FOR TESTING					
SL No	Name of the Instrument	Make	Model	Serial No	Cal
1	ELECTRICAL SAFETY ANALYZER	FLUKE	ESA 612	3005050	MAY



MECOM SERVICES

15/889 St Mary's Building
110/112, 114/116, 118/120, 122/124, 126/128, 130/132, 134/136, 138/140, 142/144, 146/148, 150/152, 154/156, 158/160, 162/164, 166/168, 170/172, 174/176, 178/180, 182/184, 186/188, 190/192, 194/196, 198/200, 202/204, 206/208, 210/212, 214/216, 218/220, 222/224, 226/228, 230/232, 234/236, 238/240, 242/244, 246/248, 250/252, 254/256, 258/260, 262/264, 266/268, 270/272, 274/276, 278/280, 282/284, 286/288, 290/292, 294/296, 298/300, 302/304, 306/308, 310/312, 314/316, 318/320, 322/324, 326/328, 330/332, 334/336, 338/340, 342/344, 346/348, 350/352, 354/356, 358/360, 362/364, 366/368, 370/372, 374/376, 378/380, 382/384, 386/388, 390/392, 394/396, 398/400, 402/404, 406/408, 410/412, 414/416, 418/420, 422/424, 426/428, 430/432, 434/436, 438/440, 442/444, 446/448, 450/452, 454/456, 458/460, 462/464, 466/468, 470/472, 474/476, 478/480, 482/484, 486/488, 490/492, 494/496, 498/500, 502/504, 506/508, 510/512, 514/516, 518/520, 522/524, 526/528, 530/532, 534/536, 538/540, 542/544, 546/548, 550/552, 554/556, 558/560, 562/564, 566/568, 570/572, 574/576, 578/580, 582/584, 586/588, 590/592, 594/596, 598/600, 602/604, 606/608, 610/612, 614/616, 618/620, 622/624, 626/628, 630/632, 634/636, 638/640, 642/644, 646/648, 650/652, 654/656, 658/660, 662/664, 666/668, 670/672, 674/676, 678/680, 682/684, 686/688, 690/692, 694/696, 698/700, 702/704, 706/708, 710/712, 714/716, 718/720, 722/724, 726/728, 730/732, 734/736, 738/740, 742/744, 746/748, 750/752, 754/756, 758/760, 762/764, 766/768, 770/772, 774/776, 778/780, 782/784, 786/788, 790/792, 794/796, 798/800, 802/804, 806/808, 810/812, 814/816, 818/820, 822/824, 826/828, 830/832, 834/836, 838/840, 842/844, 846/848, 850/852, 854/856, 858/860, 862/864, 866/868, 870/872, 874/876, 878/880, 882/884, 886/888, 890/892, 894/896, 898/900, 902/904, 906/908, 910/912, 914/916, 918/920, 922/924, 926/928, 930/932, 934/936, 938/940, 942/944, 946/948, 950/952, 954/956, 958/960, 962/964, 966/968, 970/972, 974/976, 978/980, 982/984, 986/988, 990/992, 994/996, 998/1000



1.0 PERFORMANCE ANALYSIS OF CENTRIFUGE

RPM Measurement

Sl. No	Value set on Meter Under Test (DUT) in RPM	Measured value in RPM	Mean Value	Deviation in \pm RPM	Spec. limit as per mfr. Spec	Remark	
1	1000	993	1019	1006	06	\pm 5%	PASS
2	2000	2040	2052	2049	49	\pm 5%	PASS
3	3000	3110	3122	3119	119	\pm 5%	PASS

2.0 ELECTRICAL SAFETY TEST

Sl. No	Parameter	Observed value	Acceptable limits as per the std.	Remarks
1	Protective earth resistance	0.201 Ω	$<$ 0.3 Ω	ok
2	Earth leakage	101.2 μ A	$<$ 250 μ A AC	ok
3	Patient leakage current	NA	$<$ 100 μ A BF	ok
4	Equipment current	0.2 A	As per manufacture spec	ok
5	Main voltage	220.5 V	As per manufacture spec	ok

3.0 REMARKS

- 3.1 This report is applicable to the sample tested only.
- 3.2 The instruments used for testing are under valid calibration and are traceable to National Standards.
- 3.3 Parameter of the DUT were verified and found to be within the specified limits.
- 3.4 refer NABL Dir. No. 121 Clause 7.0 Accommodation and environmental conditions sub Clause 7.2.11 below in line with ISO/IEC 17025:2005 Clause 5.3

Verified By :



07-10-2023

LEGAL IDENTITY CERTIFICATE

This is to certify that the following Primary Health Centre is functioning under the Department of Public Health and Preventive Medicine, Government of Tamil Nadu.

Name of the District	Name of the Health Unit District	Name of the Block	Name of the Primary Health
Thoothukudi	THOOTHUKUDI	SATHANKULAM	MUDALUR

This certificate is issued for submitting the Application for the "NABL Medical Entry Level Testing (MELT) Labs Program"

Block Medical Officer
Govt. Primary Health Center
Mudalur

BLOCK MEDICAL OFFICER
Mudalur, Counselling & Testing Centre
GOVT. MARY HEALTH CENTRE
MUDALUR, THOOTHUKUDI DIST.
TAMILNADU



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - AUGUST 2023



PC-1024

Lab Name	Govt. Block PHC, Mudalur	Lab No	3912
Constituent Group	Chemistry III	Date of Result Entered :	18/08/2023
PT Item	Lyophilized human serum based	Date of Report Published :	01/09/2023

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE III	GOD-POD III	Robonik (Semi automatic / Fully Automatic)	1841	175.58	5.13	9.00	172 mg/dL	-0.40	0.42
2	UREA III	Others (Urease Berthelot / Ned Dye) III	Any Analyser (Automation / Semi Automation)	59	28.92	13.99	4.05	24 mg/dL	-1.22	1.05
3	CREATININE III	Jaffes Kinetic - Alkaline Picrate III	Robonik (Semi automatic / Fully Automatic)	1852	1.76	6.77	0.12	1.9 mg/dL	1.18	0.01
4	CHOLESTROL III	CHOD-PAP III	Robonik (Semi automatic / Fully Automatic)	1764	113.80	4.07	4.64	118 mg/dL	0.91	0.22

SDI Range		Interpretation
Within -1.00 to +1.00		Excellent.
Within ± 1.01 to ± 2.00		Good.

9/28/23, 1:47 PM



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
 CMC EXTERNAL QUALITY ASSURANCE SCHEME
 MONTHLY SUMMARY REPORT - JUNE 2023



PC-1024

Lab Name: Govt. Block PHC, Mudalur
 Constituent Group: Chemistry III
 PT Item: Lyophilized human serum based

Lab No: 3912
 Date of Result Entered: 20/06/2023
 Date of Report Published: 04/07/2023

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE III	GOD-POD III	Robonik (Semi automatic / Fully Automatic)	1823	286.63	5.17	14.82	265 mg/dL	-1.46	0.69
2	UREA III	Others (Urease Berthelot / Ned Dye) III	Any Analyser (Automation / Semi Automation)	50	33.99	14.82	5.04	29 mg/dL	-0.99	1.42
3	CREATININE III	Jaffes Kinetic - Alkaline Picrate III	Robonik (Semi automatic / Fully Automatic)	1848	2.57	6.64	0.17	2.6 mg/dL	0.18	0.01
4	CHOLESTROL III	CHOD-PAP III	Robonik (Semi automatic / Fully Automatic)	1804	113.73	4.46	5.07	113 mg/dL	-0.14	0.24

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.

9/28/23, 1:46 PM



External Quality Assurance Scheme - Print Monthly Summary

CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
CMC EXTERNAL QUALITY ASSURANCE SCHEME
MONTHLY SUMMARY REPORT - MAY 2023



3912
18/05/2023
05/06/2023

Lab Name Govt. Block PHC, Mudalur
Constituent Group Chemistry III
PT item Lyophilized human serum based

Lab No
Date of Result Entered :
Date of Report Published :

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE III	GOD-POD III	Robonik (Semi automatic / Fully Automatic)	1834	180.88	5.19	9.39	180 mg/dL	-0.09	0.44
2	UREA III	Others (Urease Berthelot / Ned Dye) III	Any Analyser (Automation / Semi Automation)	46	29.96	11.88	3.56	24 mg/dL	-1.67	1.05
3	CREATININE III	Jaffes Kinetic - Alkaline Picrate III	Robonik (Semi automatic / Fully Automatic)	1854	1.76	7.48	0.13	1.8 mg/dL	0.30	0.01
4	CHOLESTROL III	CHOD-PAP III	Robonik (Semi automatic / Fully Automatic)	1798	114.60	5.08	5.83	115 mg/dL	0.07	0.27

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.

8/11/2023 9:34 AM



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY
 CMC EXTERNAL QUALITY ASSURANCE SCHEME
 MONTHLY SUMMARY REPORT - APRIL 2023



3912

Lab Name: Govt. Block PHC, Mudalur
 Constituent Group: Chemistry III
 PT Item: Lyophilized human serum based

Lab No: 19/04/2023
 Date of Result Entered: 06/05/2023
 Date of Report Published:

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE III	GOD-POD III	Robonik (Semi automatic / Fully Automatic)	1832	119.45	6.04	7.21	120 mg/dL	0.08	0.34
2	UREA III	Others (Urease Berthelot / Ned Dye) III	Any Analyser (Automation / Semi Automation)	56	43.27	11.10	4.80	50 mg/dL	1.40	1.28
3	CREATININE III	Jaffes Kinetic - Alkaline Picrate III	Robonik (Semi automatic / Fully Automatic)	1820	2.16	8.09	0.18	2.2 mg/dL	0.23	0.01
4	CHOLESTROL III	CHOD-PAP III	Robonik (Semi automatic / Fully Automatic)	1750	111.61	5.19	5.79	106 mg/dL	-0.97	0.28

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.

LAB ADDRESS :
 Govt. Block PHC, Mudalur
 MUDALUR, THOOTHUKKUDI DISTRICT



5/11/23, 9:52 AM

External Quality Assurance Scheme - Print Monthly Summary



CHRISTIAN MEDICAL COLLEGE
 DEPARTMENT OF CLINICAL BIOCHEMISTRY
 CMC EXTERNAL QUALITY ASSURANCE SCHEME
 MONTHLY SUMMARY REPORT - MARCH 2023



Lab Name: Govt. Block PHC, Mudalur
 Constituent Group: Chemistry III
 PT Item: Lyophilized human serum based

Lab No: 3912
 Date of Result Entered: 20/03/2023
 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 III	GOD-POD III	Robonik (Semi automatic / Fully Automatic)	1878	91.48	7.46	6.82	92 mg/dL	0.08	0.31
2	CREATININE III	Jaffes Kinetic - Alkaline Picrate III	Robonik (Semi automatic / Fully Automatic)	1851	1.33	9.08	0.12	1.2 mg/dL	-1.07	0.01
3	CHOLESTROL III	CHOD-PAP III	Robonik (Semi automatic / Fully Automatic)	1761	110.93	5.23	5.80	113 mg/dL	0.36	0.28

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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LAB ADDRESS :

Equipment Label

Name of Instrument	-	REFRIGERATOR
Instrument Number	-	ICTC/MND/1
Model / Sr. No.	-	RA 18 / 2007
Manufacturer	-	SAMSUNG
Date of Installation	-	8/2007
Calibration Date	-	11/2022
Next Calibration Due Date	-	10/2023
Contact details for service & repairs	-	sahyadris@gmail.com 6322784688
Authorized to use	-	