

CALIBRATION CERTIFICATE

Customer name And Address	Government Primary Health Center, Elampillai.	Certificate No.	SB/2022/0137
		Date of calibration	24.09.2022
		Valid up to	23.09.2023
		Date of issue	26.09.2022
		Calibrated at	On site

Details of Test Instrument			
Instrument name	Centrifuge	S.no	T-10-616
Make	Microsil	Model	-
Range/Size	1000rpm to 5000rpm	Location	Blood Storage Center
Least Count	1°C	Accuracy	As per manual
I.D No.	-	Visual Inspection	Ok

Details of standards used	
Name	RTD with Indicator
Certificate No.	PC-02-22/ATL/0240-01
Valid up to	08/02/2023
Traceability	yes


Environmental Condition	Temperature	30°C		
	Relative Humidity	60%		


Calibration Results			
Serial No.	UUC Reading in rpm	Standard Reading in rpm	Uncertainty At 95% C.L. (coverage factor K=2)
1	1000	1001	2
2	2000	2000	
3	3000	3000	
4	4000	4000	
5	5000	5000	

Remarks:

- ❖ The above UUC was calibrated at On-site
- ❖ UUC is defined as Unit under Calibration.
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- ❖ The above results are valid at the time of and under the stated conditions measurement.

Note: This machine is working fine and measured values are within the range


 கருத்துலா விஜயவாசர்
 அரசு மேம்படுத்தப்பட்ட ஆரம்ப
 சுகாதார நிலையம்,
 இளம்பிள்ளை-637 502 கோவை (த.ம.)


 Chief Technical Coordinator
 Karthick Madheswaran B.E, MBA,

PERFECT



Determine Perfection

Perfect Calibration Centre Pvt. Ltd.

No 40, 71st Cross, 5th Block, Rajaji Nagar, Bangalore - 560 010

Ph : 080-2315 5522, 2315 5577, 2315 5588, 99726 97733

E mail : infobir@perfectcallab.in / perfectblr@yahoo.in

Website : www.perfectcallab.in



CC - 2247

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

PCR-CC-224722000001964
ISSUE DATE : 07/01/2022

CUSTOMER : M/s.PERFECT CALIBRATION CENTRE PVT.LTD; NO.417-B, 1st FLOOR, 6th STREET EXTENSION, 100 FEET ROAD, GANDHINAGAR, COIMBATORE-641012	REPORT NO. : PC-01-22-ATL-0022-01
CUST REF : LETTER DATE : 04/01/2022	CAL DATE : 05/01/2022
DEPT : AT LAB	DUE DATE : 04/01/2023
	PAGE NO. : 1/1

DATE OF RECEIPT : 05/01/2022

PHYSICAL CONDITION ON RECEIPT : SATISFACTORY

DETAILS OF DEVICE UNDER CALIBRATION

SENSOR DETAILS

RTD SENSOR WITH INDICATOR

MAKE	TEMPSENS	RANGE	- 200 to 400°C
SERIAL NO.	000142	CAL RANGE	- 95 to 400°C
ID. NO.	PCCPL/TH/RTD-02	TYPE	PT-100 (4 -WIRE) . CLASS A

INDICATOR DETAILS

MAKE	BEAMAX	SERIAL NO.	23376
MODEL	MC2	TYPE	RTD (PT-100)
ID. NO.	PCCPL/TH/MF-05	LC	0.01°C

ENVIRONMENTAL CONDITIONS:

TEMPERATURE : (25 ± 4) °C
HUMIDITY : 30 TO 75 % RH

NO.	STANDARD USED	ID.NO./SL.NO.	CERT.NO	VALIDITY
1	SPRT WITH INDICATOR	PCCPL/TH/SPRT/02	21090661/D1 03/C -089	29/09/2023

The standards used are traceable to National / International Standards

CALIBRATION PROCEDURE : PCCPL/CAL/TH/001 & PCCPL/CAL/TH/002

COMPARISON METHOD

CALIBRATION RESULTS

THERMAL CALIBRATION

NOMINAL SET TEMPERATURE IN °C	DUC TEMPERATURE READING IN °C	STANDARD TEMPERATURE IN °C	CORRECTION TO READING IN °C	UNCERTAINTY in ±°C
-95.0	-95.25	-94.892	-0.358	0.10
-70.0	-70.21	-69.956	-0.254	0.10
-20.0	-20.06	-19.867	-0.193	0.10
0.0	0.09	0.021	0.069	0.09
25.0	24.92	25.039	-0.119	0.17
100.0	99.93	100.121	-0.191	0.17
200.0	199.86	200.087	-0.227	0.17
300.0	299.81	300.106	-0.296	0.18
400.0	399.77	400.139	-0.369	0.24

THE REPORTED UNCERTAINTY IS AT COVERAGE FACTOR k = 2, WHICH CORRESPONDS TO A CONFIDENCE LEVEL AT 95%.

KARTHIK

CALIBRATION ENGINEER
CALIBRATED BY

[Signature]
END OF CERTIFICATE
 கனகதாஸ் நினைப்படி,
 திருவிளங்கு-637 502 சென்னை (Tm)

[Signature]
 GOWDHAN
 SICALIBRATION ENGINEER
 AUTHORISED SIGNATORY

CALIBRATION CERTIFICATE

Customer name And Address	Government Primary Health Center, Elampillai.	Certificate No.	SB/2022/0142
		Date of calibration	24.09.2022
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		Date of issue	26.09.2022
		Calibrated at	On site

<u>Details of Test Instrument</u>			
Instrument name	Semi Auto Analyzer	S.no	AT0771010RBK
Make	Robonik	Model	Preitest Touch
Range/Size	-	Location	Blood Bank Storage Center
Least Count	-	Accuracy	As per manual
I.D No.	-	Visual Inspection	Ok

<u>Details of standards used</u>	
Name	-
Certificate No.	-
Valid up to	-
Traceability	-

Environmental Condition	Temperature	30 ⁰ C		
	Relative Humidity	60%		

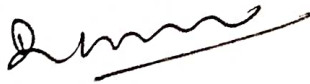
Calibration Results

- > Checked the analyzer and internal calibration done.
- > The machine found working in a good condition.

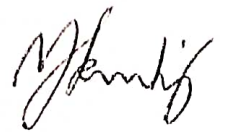
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Chief Technical Coordinator
Karthick Madheswaran B.E, MBA.

#236, Kamaraj Nagar Colony, Salem-636014.
Mobile: +91 9791849566, Email: standardbiomedical93@gmail.com

PIPETTE CALIBRATION REPORT

Manufacturer: Thermo Fisher Scientific
 Product code: 4640040
 Description: Finnpiquette F3 10-100µl
 Pipette SN: RW09152
 Tip: Finntip 250 Universal
 Nr. of channels: 1
 Comments: -
 Customer: --
 Address: --
 Service centre: Thermo Fisher Scientific, India Pvt. Ltd., D-96, C Road, MIDC Satpur, Nashik - 422007
 Tested by: 10829146

Module SN: -
 Tip lot: -

Date: 13/7/22
 Balance: Mettler XP26PC
 Environment device: Almemo 2590-4AS
 Air temperature: 26.14 °C
 Humidity: 78.4 %
 Z-factor: 1.0043
 Time: 8:47:15 PM
 Balance SN: B115129039, Calibrated 19.11.21
 Env dev SN: H19070544, Calibrated 09.10.21
 Water temperature: 26.34 °C
 Air pressure: 931.2 hPa

Volume:	10 µl	100 µl
1	9.96	100.25
2	9.99	100.01
3	9.96	99.89
4	9.95	100.05
5	9.94	100.01

Mean	9.96 µl	100.04 µl
A	-0.04 µl	0.04 µl
s	0.02 µl	0.13 µl
Acc%	-0.38	0.04
CV%	0.20	0.13
	PASSED	PASSED

Manufacturer specifications:

	Min. volume:	Max. volume:
	10 µl	100 µl
A±	0.3 µl	0.8 µl
s	0.1 µl	0.2 µl
Acc%±	3.00	0.80
CV%	1.00	0.20

Manufacturer specifications meet the requirements of ISO 8655



PIPETTE CALIBRATION REPORT

Manufacturer: Thermo Fisher Scientific
 Product code: 4640060
 Description: Finnpiptette F3 100-1000µl
 Pipette SN: RW11649
 Tip: Finntip 1000
 Nr. of channels: 1
 Comments: -
 Customer: --
 Address: --
 Service centre: Thermo Fisher Scientific, India Pvt. Ltd., D-96, C Road, MIDC Satpur, Nashik - 422007
 Tested by: 10829146

Module SN: -
 Tip lot: -

Date: 13/7/22
 Balance: Mettler XP205
 Environment device: Almemo 2590-4AS
 Air temperature: 26.24 °C
 Humidity: 78.2 %
 Z-factor: 1.0043
 Time: 8:38:33 PM
 Balance SN: B115129036, Calibrated 19.11.21
 Env dev SN: H19070544, Calibrated 09.10.21
 Water temperature: 26.34 °C
 Air pressure: 931.2 hPa

Volume:	100 µl	1000 µl
1	99.7	1000.0
2	100.1	1000.3
3	100.1	1001.0
4	99.7	999.6
5	99.8	1000.8

Mean	99.9 µl	1000.3 µl
A	-0.1 µl	0.3 µl
s	0.2 µl	0.6 µl
Acc%	-0.12	0.03
CV%	0.20	0.06
	PASSED	PASSED

Manufacturer specifications:

	Min.volume:	Max.volume:
	100 µl	1000 µl
A±	1.5 µl	5 µl
s	0.6 µl	2 µl
Acc%±	1.50	0.50
CV%	0.60	0.20

Manufacturer specifications meet the requirements of ISO 8655

