

## CALIBRATION CERTIFICATE

FCU/FM/CL/06

Name of the Customer : M/s.	<b>Vijayanagar Institute of Medical Sciences.,</b>	Page No.
Address	Ballari-583104.	

## Customer Reference:

SRF No.	:2518	SRF Date	:22-09-2023
Certificate No.	:FCL/23/2518-01	Calibrated On	:22-09-2023
ULR No.	:CC310323000013112F	Recommended Cal. Due	:21-09-2024

## Details of device under calibration (DUC):

Description	:ILR Refrigerator	Cal. Procedure	: FCL-SOP-THE-01
Make	:Microtechnic	DUC received on	:22-09-2023
Model / Type	:JRS-5L	Status on receipt	:Satisfactory
SI No.	: NA	Loc.	: PPTCT Lab
ID No.	:VIMS/GYN/PPTCT/EQUIP-02	Certificate issue date	:24-09-2023

## Environmental Conditions:

Temperature	: 25 ± 4 °C	Humidity	: 30% RH to 75% RH
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## Standards used for Calibration and Traceability Details:

Sl. No.	Nomenclature	Make	Sl. No./ID No	Traceable to	Validity
1	4 Wire RTD Sensor With Handy Calibrator	Yokogawa-CA71,Tempens	23000079 & TIN5010	TMS/23/56-01	03-Apr-24

## Note:

- The Calibration Certificate relates only to the above DUC.
- Calibration Certificate Shall not be reproduced except in full, without written approval of the Flowcal
- The usage of NABL symbol is as per NABL guide
- Standard maintained are traceable to National / International Standard through accredited laboratories.


## Results:

Sl. No.	Range/LC	DUC Reading in °C	STD Reading in °C	Error Claimed ± in °C	Error Observed in °C	Measurement Uncertainty ± in °C
1	2 °C to 8°C	5.1	5.6	1.0	-0.5	0.80

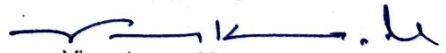
## Conclusion Remarks:-

- Measurement Uncertainty reported is at 95.45 % confidence level K=2  
.....End of Calibration Certificate.....

Calibrated By

  
Rajashakar  
(Calibration Engineer)


Authorised Signatory

  
Vinay kumar.M  
(Quality Manager)





## CALIBRATION CERTIFICATE

FCL/FMCL/06

Name of the Customer : M/s. <b>Vijayanagar Institute of Medical Sciences.,</b> Address <b>Ballari-583104.</b>	<b>Page No.</b> 1 of 1
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Customer Reference:

SRF No. :2518	SRF Date :22-09-2023
Certificate No. :FCL/23/2518-02	Calibrated On :22-09-2023
ULR No. :CC310323000013113F	Recommended Cal. Due :21-09-2024

Details of device under calibration (DUC):

Description :Digital Thermometer	Cal. Procedure : FCL-SOP-THE-01
Make :Mextech	DUC received on :22-09-2023
Model / Type :---	Status on receipt :Satisfactory
SI No. :---	Loc. : PPTCT Lab
ID No. :VIMS/GYN/PPTCT/EQUIP-03	Certificate issue date :24-09-2023

Environmental Conditions:

Temperature : 25 ± 4 °C	Humidity : 30% RH to 75% RH
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Standards used for Calibration and Traceability Details:

Sl. No.	Nomenclature	Make	Sl. No/ID No	Traceable to	Validity
1	4 Wire RTD Sensor With Handy Calibrator	Yokogawa-CA71,Tempens	23000079 & TIN5010	TMS/23/56-01	03-Apr-24

Note:

- The Calibration Certificate relates only to the above DUC.
- Calibration Certificate Shall not be reproduced except in full, without written approval of the Flowcal
- The usage of NABL symbol is as per NABL guide
- Standard maintained are traceable to National / International Standard through accredited laboratories.

Results:

Sl. No.	Range/LC	DUC Reading in °C	STD Reading in °C	Error Claimed ± in °C	Error Observed in °C	Measurement Uncertainty ± in °C
1	2 °C to 8°C	5.2	5.6	1.0	-0.4	0.80

Conclusion Remarks:-

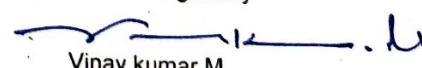
- Measurement Uncertainty reported is at 95.45 % confidence level K=2  
.....End of Calibration Certificate.....

Calibrated By

  
Rajashekar  
(Calibration Engineer)



Authorised Signatory

  
Vinay kumar.M  
(Quality Manager)





## CALIBRATION CERTIFICATE

**Customer Name & Address :** M/s Vijayanagar Institute of Medical Sciences.,  
Ballari-583104.

ULR-CC310323000013114F

**Customer Reference :** SRF No: 2518 **Date :** 22-09-2023

Calibration Certificate Number	Calibrated On	Customer Recom Due Date	Page No.
FCL/23/2518-03	22-09-2023	21-09-2024	1 of 1

**Details of device under calibration(DUC)**

DUC:	Centrifuge	ID No:	VIMS/GYN/PPTCT/EQUIP-01
Make/Model:	Trans	DUC condition on Receipt:	Good
Range(LC):	0 to 5000 RPM/0.1 RPM	Cal At:	PPTCT Lab
Sl.No:	NA	Date of Receipt	22-09-2023

Cal Procedure No: FCL-SOP-MECH-02

**Environmental conditions** Temperature: 20.4 °C Relative Humidity: 42 %RH

**Standards used:**

Sl.No	Nomenclature	Make & Model	Sl.No	Traceability	Validity
1	Tachometer	Lutron	Q652919	TMS/23/132-07	20.08.2024

**Observation:** Non Contact Mode :

SI No.	Standard Reading	UUC Set	Deviation Observed	Expanded Uncertainty Ue
	in RPM	in RPM	in RPM	in ± RPM%
1	0.0	1	-----	2.5
2	2591.0	2	-----	2.5
3	2591.0	3	-----	2.5
4	2591.0	4	-----	2.5
5	2591.0	5	-----	2.5

standard followed -SANAS TR 45-01

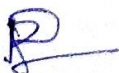
The above UUC was calibrated using comparison method

The reported expanded uncertainty is calculated at Confidence level =95.45%. Coverage factor k = 2


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Calibrated by

Authorized by

  
**Rajashekar**  
(Calibration engineer)



  
**Vinay kumar.M**  
(Quality Manager)





# Sarvashree

L-95, 5th Cross, 1st Main, Kirloskar Colony 3rd Stage,  
Water Tank Road, Basaveshwaranagar, Bangalore-560079.  
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calibration@sarvashree.com  
www.sarvashree.com



NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 with vide Certificate No: CC-2291

## CALIBRATION CERTIFICATE

SS/FF-20/v1

Page No. 1 of 2

**1 Name and Full Address of Customer** M/s.Vijayanagar Institute of Medical Science,  
Ballari-583104

### 2 Customer Reference

2.1 SRF No : A4271 Date of Receipt : 23 September 2023  
2.2 Certification No. : SS/23/A4271-02 ULR LNo : CC229123016152F  
2.3 Date of Calibration : 23 September 2023 Date of Issue: 27 September 2023  
2.4 Next Calibration Due : 22 September 2024

### 3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature : Micro Pipette  
3.2 Make : VARIABLE Volume Model : --  
3.3 SI.No : -- ID. No. : VIMS/GYN/PPTC/EQUIP-05  
3.4 No.of Pages : 2 Range : 100-1000  $\mu$ l  
3.5 Calibration Procedure No. : SOP-M&V-04 LC: 1  $\mu$ l  
3.6 DUC Condition : Satisfactory Location : QC Lab  
3.7 Calibration done at : Mech Lab, Sarvashree  
3.8 Discipline - Group : Mechanical - Volume

### 4 Environmental Condition

Temperature 21.1 °C Humidity 45 %RH

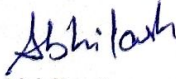
### 5 Standards Used for calibration

Sl. No.	Nomenclature	Make & Model	Sl. No	Traceable Cert. No.	Validity
1	Electronic Balance	Radwag-AS82/220.R2	585650	TVCSPL 23/03/482-02	14-Mar-24

### 6 Conclusion / Remarks/Notes:


6.1. Kindly refer to Note(s) Section mentioned as below.

Calibrated By

  
Abhilash  
(Calibration Engineer)



Authorised By

  
Noushad N  
(Lab In-charge)

**NOTE:** 1. Measurement Uncertainty reported is at approx 95.45% confidence level with coverage factor k=2. 2. Publication or reproduction of this Certificate in any form other than by complete set of the whole report & in the language, written, is not permitted without the written consent of Sarvashree. 3. The Calibration Certificate relates only to the above DUC. DUC Indicates Device Under Calibration. 4. Corrections/Erasing invalidate the calibration certificate. 5. All Standards / Masters used for calibration are traceable to National / International Standards. 6. Any error in this cert should be brought to our knowledge within 45 days from the date of this certificate. 7. Results reported are valid at the time of and under stated conditions of measurements. 8. Conformity statements are given only when requested by the customer. 9. NABL 122 Guidelines are adopted for use of NABL Symbol.



# MEASUREMENT REPORT

NABL Accredited Calibration Lab as per  
ISO/IEC 17025 : 2017 with vide Certificate No: CC-2291

CAL CERT. NO. SS/23/A4271-02 ULR LN<sub>o</sub> : CC229123016152F

Page No: 2 of 2

Range : 100-1000  $\mu$ l  
LC : 1  $\mu$ l

Sl. No.	Micropipette Set Volume in $\mu$ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in $\mu$ l	Average Volume in $\mu$ l	Systematic Error, $\pm$ in %	Random Error, in $\pm$ in %
1	100	0.09995	100.247	100.380	0.38	0.47
2		0.09990	100.197			
3		0.10018	100.478			
4		0.10023	100.528			
5		0.10015	100.448			
6		0.09977	100.067			
7		0.10063	100.929			
8		0.10056	100.859			
9		0.10021	100.508			
10		0.10140	101.702			
11	500	0.50011	501.598	501.703	0.34	0.04
12		0.50036	501.849			
13		0.50041	501.899			
14		0.50021	501.699			
15		0.49998	501.468			
16		0.50021	501.699			
17		0.50002	501.508			
18		0.49988	501.368			
19		0.49996	501.448			
20		0.49999	501.478			
21	1000	1.00014	1003.116	1003.060	0.31	0.02
22		1.00032	1003.297			
23		0.99998	1002.956			
24		0.99996	1002.936			
25		1.00032	1003.297			
26		0.99998	1002.956			
27		1.00032	1003.297			
28		0.99998	1002.956			
29		0.99996	1002.936			
30		0.99988	1002.856			

Measurement Uncertainty :  $\pm$  0.58  $\mu$ l

**Conclusion / Remarks:**

- 1 Measurement uncertainty is at confidence level 95.45% which corresponds to a coverage factor of k=2
- 2 Calibration is performed as per ISO 8655 - 6 : 2022 ( E )
- 3 Gravimetric Method is adopted for calibration

Calibrated By

*Abhilash*  
Abhilash  
(Calibration Engineer)



Authorised By

*Noushad N*  
Noushad N  
(Lab In-charge)

\*\*\*\*\*End of Certificate\*\*\*\*\*





# Sarvashree

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### 2 Customer Reference

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2.2 Certification No. : SS/23/A4271-01 ULR LNo : CC229123000016151F  
2.3 Date of Calibration : 23 September 2023 Date of Issue: 27 September 2023  
2.4 Next Calibration Due : 22 September 2024

### 3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature : Micro Pipette Model : --  
3.2 Make : Microlit ID. No. : VIMS/GYN/PPTC/EQUI-04  
3.3 SI.No : 5123891 Range : 200-1000 µl  
3.4 No.of Pages : 2 LC: 10 µl  
3.5 Calibration Procedure No. : SOP-M&V-04 Location : --  
3.6 DUC Condition : Satisfactory  
3.7 Calibration done at : Mech Lab, Sarvashree  
3.8 Discipline - Group : Mechanical - Volume

### 4 Environmental Condition


Temperature 21.1 °C Humidity 45 %RH

### 5 Standards Used for calibration

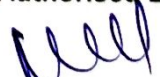
Sl. No.	Nomenclature	Make & Model	Sl. No	Traceable Cert. No.	Validity
1	Electronic Balance	Radwag- AS82/220.R2	585650	TVCSP 23/03/482-02	14-Mar-24

### 6 Conclusion / Remarks/Notes:

6.1. Kindly refer to Note (s) section mentioned as below.

Calibrated By  
  
Susindran  
(Calibration Engineer)



Authorised By  
  
Noushad N  
(Lab In-charge)

**NOTE:** 1. Measurement Uncertainty reported is at approx 95.45% confidence level with coverage factor k=2, 2. Publication or reproduction of this Certificate in any form other than by complete set of the whole report & in the language, written, is not permitted without the written consent of Sarvashree. 3. The Calibration Certificate relates only to the above DUC. DUC Indicates Device Under Calibration., 4. Corrections/Erasing invalidate the calibration certificate. 5. All Standards / Masters used for calibration are traceable to National / International Standards. 6. Any error in this cert should be brought to our knowledge within 45 days from the date of this certificate. 7. Results reported are valid at the time of and under stated conditions of measurements. 8. Conformity statement is given only when requested by the customer. 9. NABL-133 Guidelines are adopted for use of NABL Symbol.



CAL CERT. NO. SS/23/A4271-01 ULR LNo : CC229123000016151F Page No. 2 of 2

Range : 200-1000  $\mu$ l

LC : 10  $\mu$ l

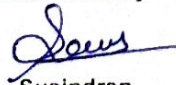
Sl. No.	Micropipette Set Volume in $\mu$ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in $\mu$ l	Average Volume in $\mu$ l	Systematic Error, $\pm$ in %	Random Error, in $\pm$ in %
1	200	0.20012	200.716	200.613	0.31	0.04
2		0.19995	200.545			
3		0.19999	200.585			
4		0.19993	200.525			
5		0.20010	200.695			
6		0.20006	200.655			
7		0.19988	200.475			
8		0.19996	200.551			
9		0.20008	200.675			
10		0.20009	200.685			
11	500	0.50010	501.588	501.524	0.30	0.03
12		0.50002	501.508			
13		0.50002	501.508			
14		0.50006	501.548			
15		0.49998	501.468			
16		0.50034	501.829			
17		0.50021	501.699			
18		0.49993	501.418			
19		0.49998	501.468			
20		0.49998	501.468			
21	1000	1.00022	1003.197	1002.954	0.30	0.01
22		1.00011	1003.086			
23		0.99982	1002.795			
24		0.99989	1002.866			
25		1.00011	1003.086			
26		0.99982	1002.795			
27		1.00011	1003.086			
28		0.99982	1002.795			
29		0.99989	1002.866			
30		0.99999	1002.966			

Measurement Uncertainty :  $\pm$  0.58  $\mu$ l

**Conclusion / Remarks:**


- 1 Measurement uncertainty is at confidence level 95.45% which corresponds to a coverage factor of k=2
- 2 Calibration is performed as per ISO 8655 - 6 : 2022 ( E )
- 3 Gravimetric Method is adopted for calibration

Calibrated By

  
Susindran  
(Calibration Engineer)



Authorised By

  
Noushad N  
(Lab In-charge)

\*\*\*\*\*End of Certificate\*\*\*\*\*