



# Sarvashree

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

## CALIBRATION CERTIFICATE

SSI/FF-20/ v1

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**1 Name and Full Address of Customer** : M/s ICTC General Hospital,  
T.Narsipura.

### 2 Customer Reference

2.1 SRF No : A4205 Date of Receipt : 20 September 2023  
2.2 Certification No. : SS/23/A4205-03 ULR No : CC2291230000016168F  
2.3 Date of Calibration : 20 September 2023 Date of Issue: 26 September 2023  
2.4 Next Calibration Due : 19 September 2024

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

3.1 Nomenclature : Micro Pipette ✓  
3.2 Make : -- Model : Research plus  
3.3 SI.No : SA675800 ID. No. : Pipette-03  
3.4 No.of Pages : 2 Range : 2-20 µl  
3.5 Calibration Procedure No. : SOP-M&V-04 LC : 0.1 µl  
3.6 DUC Condition : Satisfactory Location : --  
3.7 Calibration done at : Mech Lab, Sarvashree  
3.8 Discipline - Group : Mechanical - Volume

### 4 Environmental Condition

Temperature 21.2 °C Humidity 48 %RH

### 5 Standards Used for calibration

Sl. No.	Nomenclature	Make & Model	Sl. No	Traceable Cert. No.	Validity
1	Electronic Balance	Radweg- 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

*Abhishek*  
Abhishek

(Calibration Engineer)



Authorised By

*Noushad N*

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.



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CAL CERT. NO. SS/23/A4205-03

ULR No : CC2291230000016168F

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Range : 2-20  $\mu$ l

L.C. : 0.02  $\mu$ l

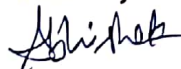
Sl. No.	Micropipette Set Volume in $\mu$ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in $\mu$ l	Average Volume in $\mu$ l	Systematic Error, $\pm$ in %	Random Error, in $\pm$ in %
1	2	0.002010	2.0160	2.019	0.95	1.72
2		0.002050	2.0561			
3		0.002020	2.0260			
4		0.001980	1.9859			
5		0.001960	1.9659			
6		0.002020	2.0260			
7		0.001970	1.9759			
8		0.002010	2.0160			
9		0.002060	2.0662			
10		0.002050	2.0561			
11	10	0.010050	10.0800	10.067	0.67	0.76
12		0.010080	10.1101			
13		0.010030	10.0600			
14		0.009920	9.9496			
15		0.010160	10.1904			
16		0.010040	10.0700			
17		0.009920	9.9496			
18		0.009990	10.0199			
19		0.010100	10.1302			
20		0.010080	10.1101			
21	20	0.020020	20.0798	20.070	0.35	0.45
22		0.020110	20.1701			
23		0.020050	20.1099			
24		0.019900	19.9595			
25		0.019960	20.0197			
26		0.019910	19.9695			
27		0.020150	20.2102			
28		0.020020	20.0798			
29		0.020080	20.1400			
30		0.019900	19.9595			

Measurement Uncertainty :  $\pm$  0.13  $\mu$ l

**Conclusion / Remarks:**

- Measurement uncertainty is at confidence level 95.45% which corresponds to a coverage factor of k= 2.26
- Calibration is performed as per ISO 8655 - 6 : 2022 ( E )
- Gravimetric Method is adopted for calibration


Calibrated By

  
Abhishek  
(Calibration Engineer)



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

Authorised By

  
Noushad N  
(Lab In-Charge)