



Sarvashree

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CC-2291

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. Alvas Diagnostic Centre.,
Alvas Health Centre Muddbidri 574227.

2 Customer Reference

2.1 SRF No : A3139 Date of Receipt : 30 June 2023
2.2 Certification No. : SS/23/A3139-02 ULR. No : CC229123000009254F
2.3 Date of Calibration : 30 June 2023 Date of Issue : 4 July 2023
2.4 Next Calibration Due : 29 June 2024

3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature : Micro Pipette
3.2 Make : UBM Model : --
3.3 SI.No : NA440519 ID. No. : --
3.4 No.of Pages : 2 Range : 100-1000 µl
3.5 Calibration Procedure No. : SOP-M&V-04 LC: 5 µl
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


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

6 Note:

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

Calibrated By

Rakesh J
(Calibration Engineer)



Authorised By

Nourshad N
(Lab In-charge)

CAL CERT. NO. SS/23/A3139-02 ULR. No : CC229123000009254F Page No. 2 of 2

Range : 100-1000 μ l
LC : 5 μ l

Sl. No.	Micropipette Set Volume in μ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in μ l	Average Volume in μ l	Systematic Error, \pm in %	Random Error, in \pm in %
1	100	0.09999	100.288	100.294	0.29	0.05
2		0.09991	100.207			
3		0.10002	100.318			
4		0.10006	100.358			
5		0.10000	100.298			
6		0.09995	100.247			
7		0.10004	100.338			
8		0.10000	100.298			
9		0.10002	100.318			
10		0.10006	100.358			
11	500	0.50001	501.498	501.508	0.30	0.02
12		0.50006	501.548			
13		0.50011	501.598			
14		0.50000	501.488			
15		0.49992	501.408			
16		0.50015	501.638			
17		0.50002	501.508			
18		0.49989	501.378			
19		0.49982	501.307			
20		0.49992	501.408			
21	1000	1.00001	1002.986	1002.956	0.30	0.01
22		1.00008	1003.056			
23		0.99995	1002.926			
24		0.99989	1002.866			
25		1.00008	1003.056			
26		0.99995	1002.926			
27		1.00008	1003.056			
28		0.99995	1002.926			
29		0.99989	1002.866			
30		0.99992	1002.896			

Measurement Uncertainty : \pm 0.58 μ l

Conclusion / Remarks:


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

Calibrated By


Rakesh J
(Calibration Engineer)



Authorized By


Noushad N
(Lab In-charge)

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



Sarvashree

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CALIBRATION CERTIFICATE

SSI/FF-20/ v1

Page 1 No. of 2

1 Name and Full Address of Customer M/s. Alvas Diagnostic Centre.,
Alvas Health Centre Mudbidri 574227.

2 Customer Reference

2.1 SRF No : A3139 Date of Receipt : 30 June 2023
2.2 Certification No. : SS/23/A3139-01 ULR. No : CC229123000009253F
2.3 Date of Calibration : 30 June 2023 Date of Issue : 4 July 2023
2.4 Next Calibration Due : 29 June 2024

3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature : Micro Pipette
3.2 Make : UBM Model : --
3.3 SI.No : NA440551 ID. No. : --
3.4 No.of Pages : 2 Range : 5-50 µl
3.5 Calibration Procedure No. : SOP-M&V-04 LC : 0.5 µl
3.6 DUC Condition : Satisfactory
3.7 Calibration done at : Mech Lab, Sarvashree
3.8 Discipline : Mechanical (Volume)

4 Environmental Condition

Temperature 20.6 °C Humidity 46 %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 Note:

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

Calibrated By

Rakesh J
(Calibration Engineer)



Authorised By

Noushad N
(Lab In-Charge)

CAL CERT. NO.

SS/23/A3139-01

ULR. No : CC22912300009253F

Page No: 2 of 2

Range : 5-50 μ l

LC : 0.5 μ l

Sl. No.	Micropipette Set Volume in μ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in μ l	Average Volume in μ l	Systematic Error, \pm in %	Random Error, in \pm in %
1	5	0.00500	5.016	5.019	0.37	0.19
2		0.00499	5.006			
3		0.00500	5.018			
4		0.00500	5.016			
5		0.00500	5.019			
6		0.00502	5.035			
7		0.00501	5.026			
8		0.00501	5.028			
9		0.00500	5.017			
10		0.00499	5.005			
11	25	0.02502	25.097	25.068	0.27	0.26
12		0.02493	25.007			
13		0.02497	25.049			
14		0.02492	24.996			
15		0.02509	25.168			
16		0.02492	24.991			
17		0.02494	25.010			
18		0.02507	25.141			
19		0.02502	25.098			
20		0.02505	25.127			
21	50	0.04999	50.142	50.122	0.24	0.06
22		0.04999	50.136			
23		0.04997	50.117			
24		0.04993	50.079			
25		0.05004	50.186			
26		0.04993	50.080			
27		0.04997	50.120			
28		0.04995	50.102			
29		0.04997	50.120			
30		0.04999	50.136			

Measurement Uncertainty : \pm 0.13 μ 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


Rakesh J

(Calibration Engineer)



Authorised By


Noushad N

(Lab In-Charge)