

Villoo Poonawalla Memorial Hospital

S.No.156, Plot No.1/3A+3B/1+2, 3, Pune - Solapur Rd,
Near Savli Corner, Hadapsar, Pune - 411028

Calibration List

Sr. No.	Instrument Name	Type	ID No.	Make	Range	Unit	L.C.	Location	Cal. Date	Due Date
1	Micro Pipette	-	YE13ADD0039362	Microlab	100 to 1000	µl	5	Pathology	11.05.2022	10.05.2023
2	Micro Pipette	-	374267	P'Fact	50 to 200	µl	1	Pathology	11.05.2022	10.05.2023
3	Micro Pipette	-	374346	P'Fact	50 to 200	µl	1	Pathology	11.05.2022	10.05.2023
4	Micro Pipette	-	YE213A50182048	Microlab	5 to 50	µl	0.5	Pathology	11.05.2022	10.05.2023



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CC-2927

CALIBRATION CERTIFICATE

1. CUSTOMER	-	Page No.	-	1 of 1		
Viloo Poonawalla Memorial Hospital		NABL Accreditation No.	-	CC-2927		
S.No.156, Plot No.1/3A+3B/1+2, 3, Pune - Solapur Rd,		Certificate No.	-	22.05.11.001		
Near Savli Corner, Hadapsar, Pune - 411028		Date of Received	-	11.05.2022		
Temperature (°C)	-	23.4		Date of Calibration	-	11.05.2022
Relative Humidity (%RH)	-	49.7		Next Calibration Due On	-	10.05.2023
Condition of Item	-	OK		Location of calibration	-	In lab
Atmospheric Pressure	-	944.9 mbar		Calibration method No.	-	RTS-WI-19
				Date of Issue	-	13.05.2022
				ULR No.	-	CC292722000004266F

2. Description of Item					
Name	-	Micro Pipette	Range	-	100 to 1000 µl
Sr. No	-	YE13AD0039362	Resolution	-	5 µl
Make	-	Microlab	Location	-	Pathology
	-				

3. Detail of Equipment used for calibration					
Name	-	WEIGHING BALANCE			
Certificate No.	-	21.11.IH.002			
Certified By	-	RTS			
ID/Sr. No.	-	RTS-WBL-08			
Range	-	5.1 g			
Uncertainty	-	±0.004 mg			
Calibration Validity	-	01.11.2022			

Discipline :- Mechanical Calibration **Group** :- Mass and Volume-Volume

4. Calibration Results					
Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	100	100.517	0.517	0.005	1.79
2	500	502.316	2.316	0.004	1.79
3	1000	1004.705	4.705	0.007	1.79

Note:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95% for normal distribution
- Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- This certificate refers only to the particular item submitted for calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- Calibration point were selected as per customer specifications.
- This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Reliable Technical Services, Pune".
- The Standard used are traceable to National / International Standard.
- Calibration of volumetric measures done by any accredited laboratory is meant for scientific and industrial purpose only.

Calibrated By *V. Salunke*
 Calibration Engineer
 V. Salunke

Approved By *SM*
 Technical Manager
 SACHIN A. MHASAWADE





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Viloo Poonawalla Memorial Hospital		NABL Accreditation No.	- CC-2927
S.No.156, Plot No.1/3A+3B/1+2, 3, Pune - Solapur Rd,		Certificate No.	- 22.05.11.002
Near Savli Corner, Hadapsar, Pune - 411028		Date of Received	- 11.05.2022
Temperature (°C)	- 23.5	Date of Calibration	- 11.05.2022
Relative Humidity (%RH)	- 49.9	Next Calibration Due On	- 10.05.2023
Condition of Item	- OK	Location of calibration	- In lab
Atmospheric Pressure	- 944.3 mbar	Calibration method No.	- RTS-WI-19
		Date of Issue	- 13.05.2022
		ULR No.	- CC292722000004267F

2. Description of Item			
Name	- Micro Pipette	Range	- 50 to 200 µl
Sr. No	- 374267	Resolution	- 1 µl
Make	- P'Fact	Location	- Pathology

3.Detail of Equipment used for calibration	
Name	- WEIGHING BALANCE
Certificate No.	- 21.11.IH.002
Certified By	- RTS
ID/Sr. No.	- RTS-WBL-08
Range	- 5.1 g
Uncertainty	- ±0.004 mg
Calibration Validity	- 01.11.2022

Discipline :- Mechanical Calibration Group :- Mass and Volume-Volume

4.Calibration Results					
Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	50	50.221	0.221	0.008	0.05
2	100	100.439	0.439	0.007	1.79
3	200	201.113	1.113	0.003	1.79

Note:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95% for normal distribution
- Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- This certificate refers only to the particular item submitted for calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
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Calibration Engineer
V. Salunke

Approved By *Srm*
Technical Manager
SACHIN A. MHASAWADE





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CALIBRATION CERTIFICATE

1. CUSTOMER :-

Viloo Poonawalla Memorial Hospital
S.No.156, Plot No.1/3A+3B/1+2, 3, Pune - Solapur Rd,
Near Savli Corner, Hadapsar, Pune - 411028
Temperature (°C) :- 23.6
Relative Humidity (%RH) :- 49.8
Condition of Item :- OK
Atmospheric Pressure :- 945.3 mbar

Page No. :- 1 of 1
NABL Accreditation No. :- CC-2927
Certificate No. :- 22.05.11.003
Date of Received :- 11.05.2022
Date of Calibration :- 11.05.2022
Next Calibration Due On :- 10.05.2023
Location of calibration :- In lab
Calibration method No. :- RTS-WI-19
Date of Issue :- 13.05.2022
ULR No. :- CC292722000004268F

2. Description of Item

Name :- Micro Pipette
Sr. No :- 374346
Make :- P'Fact
Range :- 50 to 200 µl
Resolution :- 1 µl
Location :- Pathology

3. Detail of Equipment used for calibration

Name :- WEIGHING BALANCE
Certificate No. :- 21.11.IH.002
Certified By :- RTS
ID/Sr. No. :- RTS-WBL-08
Range :- 5.1 g
Uncertainty :- ±0.004 mg
Calibration Validity :- 01.11.2022

Discipline :- Mechanical Calibration

Group :- Mass and Volume-Volume

4. Calibration Results :-

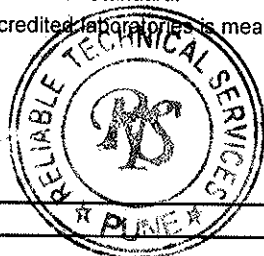
Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	50	50.320	0.320	0.005	0.05
2	100	100.631	0.631	0.005	1.79
3	200	200.883	0.883	0.006	1.79

Note:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95% for normal distribution
- Barometric Pressure 950 mbar. Volumes are reported at 20°C.
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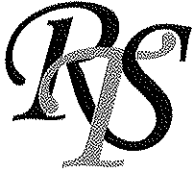
V. Salunke
Calibration Engineer
V. Salunke



Approved By

S.M.
Technical Manager
SACHIN A. MHASAWADE





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Viloo Poonawalla Memorial Hospital		NABL Accreditation No.	:- CC-2927
S.No.156, Plot No.1/3A+3B/1+2, 3, Pune - Solapur Rd,		Certificate No.	:- 22.05.11.004
Near Savli Corner, Hadapsar, Pune - 411028		Date of Received	:- 11.05.2022
Temperature (°C)	:- 23.6	Date of Calibration	:- 11.05.2022
Relative Humidity (%RH)	:- 49.9	Next Calibration Due On	:- 10.05.2023
Condition of Item	:- OK	Location of calibration	:- In lab
Atmospheric Pressure	:- 945.3 mbar	Calibration method No.	:- RTS-WI-19
		Date of Issue	:- 13.05.2022
		ULR No.	:- CC292722000004269F

2. Description of Item

Name	:- Micro Pipette	Range	:- 5 to 50 μ l
Sr. No	:- YE213A50182048	Resolution	:- 0.5 μ l
Make	:- Microlab	Location	:- Pathology

3. Detail of Equipment used for calibration

Name	:- WEIGHING BALANCE
Certificate No.	:- 21.11.IH.002
Certified By	:- RTS
ID/Sr. No.	:- RTS-WBL-08
Range	:- 5.1 g
Uncertainty	:- ± 0.004 mg
Calibration Validity	:- 01.11.2022

Discipline :- Mechanical Calibration

Group :- Mass and Volume-Volume

4. Calibration Results

Sr.No.	Volume in μ l	Observed mean volume at 27 °C (ref. Temp) μ l	Systematic Error μ l	Random Error μ l	Expanded Uncertainty $\pm \mu$ l
1	5.0	5.033	0.033	0.003	0.05
2	20.0	20.047	0.047	0.005	0.05
3	50.0	50.096	0.096	0.006	0.05

Note:

- 1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95% for normal distribution
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