



RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

"RELIABLE HOUSE" 497/2834-35, Sant Tukaram Nagar,
Pimpri, Pune - 411018. MH, India. Telefax : 020-27421170
Cell : 7774055755, 7774055855, 7774058855, 7774022900
Email : reliable1010@gmail.com/reliabletechnocare@gmail.com
Web. : www.reliable.world



CALIBRATION CERTIFICATE

| | |
|---|--|
| 1. CUSTOMER :- Vinamra Swaraj Hospital Plot 108, 108/1, 109, Sector 11, Vashi, Navi Mumbai-400 703- Temperature (°C) :- 23.1 Relative Humidity (%RH) :- 50.4 Condition of Item :- OK Atmospheric Pressure :- 944.5 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.001 Date of Received :- 11.08.2023 Date of Calibration :- 11.08.2023 Next Calibration Due On :- 10.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007114F |
|---|--|

| | | | |
|-------------------------------|------------------|---------------|---------|
| 2. Description of Item | | | |
| Name :- | Micropipette | Range :- | 1000 µl |
| Sr. No :- | LW09719 | Resolution :- | Fixed |
| Make :- | ThermoScientific | | |

| | |
|--|------------------|
| 3. Detail of Equipment used for calibration | |
| Name :- | WEIGHING BALANCE |
| Certificate No. :- | 22.10.IH.004 |
| Certified By :- | RTS |
| ID/Sr. No. :- | RTS-WBL-08 |
| Range :- | 5.1 g |
| Uncertainty :- | ±0.006 mg |
| Calibration Validity :- | 27.10.2023 |

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 | 1000 | 1004.660 | 4.660 | 0.005 | 1.8 |

- 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
 - 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 laboratories is meant for scientific and industrial purpose only.

Calibrated By *V. Salunke* Approved By *S.M.*
 Calibration Engineer Technical Manager
 V. Salunke SACHIN A. MHASAWADE
 RF-21, R0



CERTIFICATE



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CALIBRATION CERTIFICATE

| | | |
|--------------------------------------|-------------------------|----------------------|
| 1. CUSTOMER | Page No. | - 1 of 1 |
| Vinamra Swaraj Hospital | NABL Accreditation No. | - CC-2927 |
| Plot 108,108/1,109, | Certificate No. | - 23.08.11.002 |
| Sector 11,Vashi ,Navi Mumvai-400 703 | Date of Received | - 11.08.2023 |
| Temperature (°C) | Date of Calibration | - 11.08.2023 |
| Relative Humidity (%RH) | Next Calibration Due On | - 10.08.2024 |
| Condition of Item | Location of calibration | - In lab |
| Atmospheric Pressure | Calibration method No. | - RTS-WI-19 |
| | Date of Issue | - 16.08.2023 |
| | ULR No. | - CC292723000007115F |

| | | | |
|-------------------------------|--------------------|------------|--------------|
| 2. Description of Item | | | |
| Name | - Micropipette | Range | - 5 to 50 µl |
| Sr. No | - KW04363 | Resolution | - 0.5 µl |
| Make | - ThermoScientific | | |

| | |
|--|--------------------|
| 3. Detail of Equipment used for calibration | |
| Name | - WEIGHING BALANCE |
| Certificate No. | - 22.10.IH.004 |
| Certified By | - RTS |
| ID/Sr. No. | - RTS-WBL-08 |
| Range | - 5.1 g |
| Uncertainty | - ±0.006 mg |
| Calibration Validity | - 27.10.2023 |

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 | 5.0 | 5.034 | 0.034 | 0.004 | 0.03 |
| 2 | 30.0 | 30.130 | 0.130 | 0.005 | 0.03 |
| 3 | 50.0 | 50.311 | 0.311 | 0.004 | 0.03 |

Note:
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 6) The Standard used are traceable to National / International Standard.
 7)Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By **V. Salunke**
 Calibration Engineer
 V.Salunke
 RF-21, R0

Approved By **S.M**
 Technical Manager
 SACHIN A. MHASAWADE





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|--------------------------------------|---------------|-------------------------|-----------------------|
| 1.CUSTOMER | :- | Page No. | :- 1 of 1 |
| Vinamra Swaraj Hospital | | NABL Accreditation No. | :- CC-2927 |
| Plot 108,108/1,109, | | Certificate No. | :- 23.08.11.003 |
| Sector 11,Vashi ,Navi Mumvai-400 703 | | Date of Received | :- 11.08.2023 |
| Temperature (°C) | :- 23.2 | Date of Calibration | :- 11.08.2023 |
| Relative Humidity (%RH) | :- 49.4 | Next Calibration Due On | :- 10.08.2024 |
| Condition of Item | :- OK | Location of calibration | :- In lab |
| Atmospheric Pressure | :- 944.6 mbar | Calibration method No. | :- RTS-WI-19 |
| | | Date of Issue | :- 16.08.2023 |
| | | ULR No. | :- CC292723000007116F |

| | | | |
|-------------------------------|---------------------|------------|-----------------|
| 2. Description of Item | | | |
| Name | :- Micropipette | Range | :- 20 to 200 µl |
| Sr. No | :- KW00408 | Resolution | :- 1 µl |
| Make | :- ThermoScientific | | |

| | | | |
|---|---------------------|--|--|
| 3.Detail of Equipment used for calibration | | | |
| Name | :- WEIGHING BALANCE | | |
| Certificate No. | :- 22.10.IH.004 | | |
| Certified By | :- RTS | | |
| ID/Sr. No. | :- RTS-WBL-08 | | |
| Range | :- 5.1 g | | |
| Uncertainty | :- ±0.006 mg | | |
| Calibration Validity | :- 27.10.2023 | | |

Discipline :- Mechanical Calibration Group Mass and Volume-Volume

| 4.Calibration Results | | | | | |
|------------------------------|-----------|-------------------------------|------------------|--------------|------------------------|
| Sr.No. | Volume in | Observed mean volume at 27 °C | Systematic Error | Random Error | Expanded Uncertainty ± |
| | µl | µl | µl | µl | µl |
| 1 | 20 | 20.119 | 0.119 | 0.004 | 0.03 |
| 2 | 100 | 100.448 | 0.448 | 0.004 | 0.03 |
| 3 | 200 | 200.882 | 0.882 | 0.007 | 1.8 |

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
- 2) This certificate refers only to the particular item submitted for calibration.
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications.
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- 6) The Standard used are traceable to National / International Standard.
- 7)Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By Approved By

V. Salunke S.M
Calibration Engineer Technical Manager
V.Salunke SACHIN A. MHASAWADE



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CALIBRATION CERTIFICATE

| | |
|--|--|
| 1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 Temperature (°C) :- 23.5 Relative Humidity (%RH) :- 49.8 Condition of Item :- OK Atmospheric Pressure :- 945.0 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.004 Date of Received :- 11.08.2023 Date of Calibration :- 11.08.2023 Next Calibration Due On :- 10.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007117F |
|--|--|

| | |
|---|---|
| 2. Description of Item | |
| Name :- Micropipette Sr. No :- FJ91954 Make :- ThermoScientific | Range :- 20 to 200 µl Resolution :- 1 µl |

| | |
|--|------------------------------|
| 3.Detail of Equipment used for calibration | |
| Name :- WEIGHING BALANCE Certificate No. :- 22.10.IH.004 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.006 mg Calibration Validity :- 27.10.2023 | |
| 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 | 20 | 20.139 | 0.139 | 0.007 | 0.03 |
| 2 | 100 | 100.545 | 0.545 | 0.005 | 0.03 |
| 3 | 200 | 201.158 | 1.158 | 0.005 | 1.8 |

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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 Calibration Engineer
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 Technical Manager
 SACHIN A. MHASAWADE





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| | | |
|--|-------------------------|----------------------|
| 1.CUSTOMER | Page No. | - 1 of 1 |
| Vinamra Swaraj Hospital | NABL Accreditation No. | - CC-2927 |
| Plot 108,108/1,109, | Certificate No. | - 23.08.11.005 |
| Sector 11,Vashi ,Navi Mumvai-400 703 - | Date of Received | - 11.08.2023 |
| Temperature (°C) :- 23.8 | Date of Calibration | - 11.08.2023 |
| Relative Humidity (%RH) :- 50.2 | Next Calibration Due On | - 10.08.2024 |
| Condition of Item :- OK | Location of calibration | - In lab |
| Atmospheric Pressure :- 944.6 mbar | Calibration method No. | - RTS-WI-19 |
| | Date of Issue | - 16.08.2023 |
| | ULR No. | - CC292723000007118F |

| | | | |
|-------------------------------|--------------|---------------|--------------|
| 2. Description of Item | | | |
| Name :- | Micropipette | Range :- | 10 to 100 µl |
| Sr. No :- | N03046 | Resolution :- | 1 µl |
| Make :- | Labsystems | | |

| | |
|---|------------------|
| 3.Detail of Equipment used for calibration | |
| Name :- | WEIGHING BALANCE |
| Certificate No. | 22.10.IH.004 |
| Certified By | RTS |
| ID/Sr. No. | RTS-WBL-08 |
| Range | 5.1 g |
| Uncertainty | ±0.006 mg |
| Calibration Validity | 27.10.2023 |

Discipline :- Mechanical Calibration Group Mass and Volume-Volume

| 4.Calibration Results | | | | | |
|------------------------------|-----------|-------------------------------|------------------|--------------|------------------------|
| Sr.No. | Volume in | Observed mean volume at 27 °C | Systematic Error | Random Error | Expanded Uncertainty ± |
| | µl | (ref. Temp) µl | µl | µl | µl |
| 1 | 10 | 10.045 | 0.045 | 0.008 | 0.03 |
| 2 | 50 | 50.319 | 0.319 | 0.004 | 0.03 |
| 3 | 100 | 100.522 | 0.522 | 0.005 | 0.03 |

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
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- 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 CERTIFICATE

| | |
|--|--|
| 1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 - Temperature (°C) :- 23.2 Relative Humidity (%RH) :- 49.6 Condition of Item :- OK Atmospheric Pressure :- 945.0 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.006 Date of Received :- 11.08.2023 Date of Calibration :- 11.08.2023 Next Calibration Due On :- 10.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007119F |
|--|--|

| | |
|--|---|
| 2. Description of Item | |
| Name :- Micropipette Sr. No :- F63526 Make :- Labsystems | Range :- 5 to 40 µl Resolution :- 0.5 µl |

| | |
|--|--|
| 3.Detail of Equipment used for calibration | |
| Name :- WEIGHING BALANCE Certificate No. :- 22.10.IH.004 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.006 mg Calibration Validity :- 27.10.2023 | |

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 | 5.0 | 5.029 | 0.029 | 0.004 | 0.03 |
| 2 | 20.0 | 20.092 | 0.092 | 0.003 | 0.03 |
| 3 | 40.0 | 40.217 | 0.217 | 0.007 | 0.03 |

Note:
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 Calibration Engineer
 V.Salunke
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CALIBRATION CERTIFICATE

| | |
|--|--|
| 1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 - Temperature (°C) :- 23.3 Relative Humidity (%RH) :- 50.2 Condition of Item :- OK Atmospheric Pressure :- 944.6 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.007 Date of Received :- 11.08.2023 Date of Calibration :- 11.08.2023 Next Calibration Due On :- 10.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007120F |
|--|--|

| | |
|--|---|
| 2. Description of Item | |
| Name :- Micropipette Sr. No :- J35413 Make :- LabSystems | Range :- 5 to 50 µl Resolution :- 0.5 µl |

| | |
|--|--|
| 3.Detail of Equipment used for calibration | |
| Name :- WEIGHING BALANCE Certificate No. :- 22.10.IH.004 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.006 mg Calibration Validity :- 27.10.2023 | |

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 | 5.0 | 5.020 | 0.020 | 0.005 | 0.03 |
| 2 | 30.0 | 30.193 | 0.193 | 0.004 | 0.03 |
| 3 | 50.0 | 50.331 | 0.331 | 0.006 | 0.03 |

Note:
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 Calibration Engineer
 V.Salunke

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CALIBRATION CERTIFICATE

| | |
|--|--|
| 1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 - Temperature (°C) :- 23.7 Relative Humidity (%RH) :- 49.8 Condition of Item :- OK Atmospheric Pressure :- 944.6 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.008 Date of Received :- 11.08.2023 Date of Calibration :- 11.08.2023 Next Calibration Due On :- 10.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007121F |
|--|--|

| | |
|--|---|
| 2. Description of Item | |
| Name :- Micropipette Sr. No :- N18567 Make :- Labsystems | Range :- 100 to 1000 µl Resolution :- 5 µl |

| | |
|--|------------------------------|
| 3.Detail of Equipment used for calibration | |
| Name :- WEIGHING BALANCE Certificate No. :- 22.10.IH.004 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.006 mg Calibration Validity :- 27.10.2023 | |
| 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 | 100.552 | 0.552 | 0.005 | 0.03 |
| 2 | 500 | 502.473 | 2.473 | 0.005 | 1.8 |
| 3 | 1000 | 1005.057 | 5.057 | 0.005 | 1.8 |

Note:
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 Calibration Engineer
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 Technical Manager
 SACHIN A. MHASAWADE





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|--------------------------------------|---------------|-------------------------|-----------------------|
| 1. CUSTOMER | :- | Page No. | :- 1 of 1 |
| Vinamra Swaraj Hospital | | NABL Accreditation No. | :- CC-2927 |
| Plot 108,108/1,109, | | Certificate No. | :- 23.08.11.012 |
| Sector 11,Vashi ,Navi Mumbai-400 703 | | Date of Received | :- 14.08.2023 |
| Temperature (°C) | :- 23.8 | Date of Calibration | :- 14.08.2023 |
| Relative Humidity (%RH) | :- 50.4 | Next Calibration Due On | :- 13.08.2024 |
| Condition of Item | :- OK | Location of calibration | :- In lab |
| Atmospheric Pressure | :- 944.3 mbar | Calibration method No. | :- RTS-WI-19 |
| | | Date of Issue | :- 16.08.2023 |
| | | ULR No. | :- CC292723000007125F |

| | | | |
|-------------------------------|--------------------|------------|--------------------|
| 2. Description of Item | | | |
| Name | :- Micropipette | Range | :- 5 to 50 μ l |
| Sr. No | :- W97788 | Resolution | :- 0.5 μ l |
| Make | :- Thermo Electron | | |

| | | | |
|--|---------------------|--|--|
| 3. Detail of Equipment used for calibration | | | |
| Name | :- WEIGHING BALANCE | | |
| Certificate No. | :- 22.10.IH.004 | | |
| Certified By | :- RTS | | |
| ID/Sr. No. | :- RTS-WBL-08 | | |
| Range | :- 5.1 g | | |
| Uncertainty | :- ± 0.006 mg | | |
| Calibration Validity | :- 27.10.2023 | | |

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 μ l |
| 1 | 5.0 | 5.028 | 0.028 | 0.006 | 0.03 |
| 2 | 30.0 | 30.134 | 0.134 | 0.006 | 0.03 |
| 3 | 50.0 | 50.303 | 0.303 | 0.004 | 0.03 |

- 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
 - 2) This certificate refers only to the particular item submitted for calibration.
 - 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
 - 4) Calibration point were selected as per customer specifications.
 - 5) 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".
 - 6) The Standard used are traceable to National / International Standard.
 - 7) Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By **V. Salunke** Approved By **S.M**
 Calibration Engineer Technical Manager
 V. Salunke SACHIN A. MHASAWADE
 RF-21, R0





RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

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Pimpri, Pune - 411018. MH, India. Telefax : 020-27421170
Cell : 7774055755, 7774055855, 7774058855, 7774022900
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Web. : www.reliable.world



CALIBRATION CERTIFICATE

| | |
|--|--|
| 1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 - Temperature (°C) :- 23.3 Relative Humidity (%RH) :- 49.7 Condition of Item :- OK Atmospheric Pressure :- 945.0 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.009 Date of Received :- 14.08.2023 Date of Calibration :- 14.08.2023 Next Calibration Due On :- 13.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007122F |
|--|--|

| | | | |
|-------------------------------|------------------|---------------|--------|
| 2. Description of Item | | | |
| Name :- | Micropipette | Range :- | 500 µl |
| Sr. No :- | HH50127 | Resolution :- | Fixed |
| Make :- | ThermoScientific | | |

| | |
|---|------------------------|
| 3.Detail of Equipment used for calibration | |
| Name :- | WEIGHING BALANCE |
| Certificate No. :- | 22.10.IH.004 |
| Certified By :- | RTS |
| ID/Sr. No. :- | RTS-WBL-08 |
| Range :- | 5.1 g |
| Uncertainty :- | ±0.006 mg |
| Calibration Validity :- | 27.10.2023 |
| 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 | 500 | 503.280 | 3.280 | 0.007 | 1.8 |

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
- 2) This certificate refers only to the particular item submitted for calibration.
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications.
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- 6) The Standard used are traceable to National / International Standard.
- 7)Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By
V. Salunke
Calibration Engineer
V.Salunke

Approved By
S.M
Technical Manager
SACHIN A. MHASAWADE

RF-21, R0





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Cell : 7774055755, 7774055855, 7774058855, 7774022900
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CALIBRATION CERTIFICATE

| | |
|---|--|
| 1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 Temperature (°C) :- 23.6 Relative Humidity (%RH) :- 49.0 Condition of Item :- OK Atmospheric Pressure :- 944.5 mbar | Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 23.08.11.010 Date of Received :- 14.08.2023 Date of Calibration :- 14.08.2023 Next Calibration Due On :- 13.08.2024 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 16.08.2023 ULR No. :- CC292723000007123F |
|---|--|

| | |
|---|---|
| 2. Description of Item | |
| Name :- Micropipette Sr. No :- KW01192 Make :- ThermoScientific | Range :- 20 to 200 µl Resolution :- 1 µl |

| | |
|--|--|
| 3.Detail of Equipment used for calibration | |
| Name :- WEIGHING BALANCE Certificate No. :- 22.10.IH.004 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.006 mg Calibration Validity :- 27.10.2023 | |

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 | 20 | 20.128 | 0.128 | 0.007 | 0.03 |
| 2 | 100 | 100.497 | 0.497 | 0.008 | 0.03 |
| 3 | 200 | 200.860 | 0.860 | 0.008 | 1.8 |

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
 2) This certificate refers only to the particular item submitted for calibration.
 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
 4) Calibration point were selected as per customer specifications.
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 6) The Standard used are traceable to National / International Standard.
 7)Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By **V. Salunke**
 Calibration Engineer
 V.Salunke
 RF-21, R0

Approved By **S.M**
 Technical Manager
 SACHIN A. MHASAWADE





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CALIBRATION CERTIFICATE

| | | |
|--------------------------------------|-------------------------|----------------------|
| 1. CUSTOMER | Page No. | - 1 of 1 |
| Vinamra Swaraj Hospital | NABL Accreditation No. | - CC-2927 |
| Plot 108,108/1,109, | Certificate No. | - 23.08.11.011 |
| Sector 11,Vashi ,Navi Mumvai-400 703 | Date of Received | - 14.08.2023 |
| Temperature (°C) :- 23.2 | Date of Calibration | - 14.08.2023 |
| Relative Humidity (%RH) :- 50.4 | Next Calibration Due On | - 13.08.2024 |
| Condition of Item :- OK | Location of calibration | - In lab |
| Atmospheric Pressure :- 944.7 mbar | Calibration method No. | - RTS-WI-19 |
| | Date of Issue | - 16.08.2023 |
| | ULR No. | - CC292723000007124F |

| | | | |
|-------------------------------|-------------------|---------------|---------|
| 2. Description of Item | | | |
| Name :- | Micropipette | Range :- | 1000 µl |
| Sr. No :- | W15102 | Resolution :- | Fixed |
| Make :- | Thermo Labsystems | | |

| | |
|--|------------------|
| 3. Detail of Equipment used for calibration | |
| Name :- | WEIGHING BALANCE |
| Certificate No. :- | 22.10.IH.004 |
| Certified By :- | RTS |
| ID/Sr. No. :- | RTS-WBL-08 |
| Range :- | 5.1 g |
| Uncertainty :- | ±0.006 mg |
| Calibration Validity :- | 27.10.2023 |

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 | 1000 | 1006.934 | 6.934 | 0.007 | 1.8 |

- 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
 - 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 laboratories is meant for scientific and industrial purpose only.

Calibrated By V. Salunke Approved By S.M
 Calibration Engineer Technical Manager
V. Salunke SACHIN A. MHASAWADE



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| | | | |
|--------------------------------------|-------------------------|-----------------------|--|
| 1. CUSTOMER | Page No. | :- 1 of 1 | |
| Vinamra Swaraj Hospital | NABL Accreditation No. | :- CC-2927 | |
| Plot 108,108/1,109, | Certificate No. | :- 23.08.11.013 | |
| Sector 11,Vashi ,Navi Mumvai-400 703 | Date of Received | :- 14.08.2023 | |
| Temperature (°C) :- 23.6 | Date of Calibration | :- 14.08.2023 | |
| Relative Humidity (%RH) :- 49.4 | Next Calibration Due On | :- 13.08.2024 | |
| Condition of Item :- OK | Location of calibration | :- In lab | |
| Atmospheric Pressure :- 944.7 mbar | Calibration method No. | :- RTS-WI-19 | |
| | Date of Issue | :- 16.08.2023 | |
| | ULR No. | :- CC292723000007126F | |

| | | | |
|-------------------------------|--------------------|----|--|
| 2. Description of Item | | | |
| Name :- Micropipette | Range :- 0.5 to 5 | ml | |
| Sr. No :- PW15350 | Resolution :- 0.05 | ml | |
| Make :- ThermoScientific | | | |

| | |
|--|--|
| 3. Detail of Equipment used for calibration | |
| Name :- WEIGHING BALANCE | |
| Certificate No. :- 22.10.IH.005 | |
| Certified By :- RTS | |
| ID/Sr. No. :- RTS-WBL-09 | |
| Range :- 210 g | |
| Uncertainty :- ±0.05 mg | |
| Calibration Validity :- 27.10.2023 | |

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

| 4. Calibration Results | | | | | |
|-------------------------------|--------------|--|---------------------|-----------------|---------------------------|
| Sr.No. | Volume in ml | Observed mean volume at 27 °C (ref. Temp) ml | Systematic Error ml | Random Error ml | Expanded Uncertainty ± µl |
| 1 | 1.00 | 1.004 | 0.004 | 0.007 | 0.5 |
| 2 | 3.00 | 3.015 | 0.015 | 0.008 | 0.5 |
| 3 | 5.00 | 5.028 | 0.028 | 0.006 | 0.5 |

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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- 6) The Standard used are traceable to National / International Standard.
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Calibrated By **V. Salunke**
 Calibration Engineer
 V.Salunke

Approved By **S.M**
 Technical Manager
 SACHIN A. MHASAWADE

RF-21, R0





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RIR CERTIFICATION

ISO 9001:2015



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| | |
|---|---|
| 1.CUSTOMER :- Reliable Technical Services (A DIVISION OF RELIABLE TECHNOCARE PVT. LTD.) Reliable House', 497/2834-35, Sant Tukaram Nagar,Pimpri, Pune-411 018. Temperature (°C) :- 22.5 Relative Humidity (%RH) :- 51 Location of calibration :- In Lab Condition of Item :- OK | Page No. :- 1 of 2 NABL Accreditation No. :- CC-2927 Certificate No. :- 22.10.IH.004 Date of Received :- -- Date of Calibration :- 28.10.2022 Next Calibration Due On :- 27.10.2023 Calibration method No. :- RTS-WI-18 Date of Issue :- 28.10.2022 ULR No. :- CC292722000005991F |
|---|---|

2. Description of Item

| | |
|--|---|
| Name :- Weighing Balance Id. No :- RTS-WBL-08 Make/Model :- Radwag/MYA5.4Y Type :- Digital Sr. No. :- 580744 | Max. Capacity :- 5.1 g Resolution 'd' :- 0.000001g Class :- Class I Value 'e' :- 0.001 g |
|--|---|

3.Detail of Equipment used for calibration

| | |
|--|--|
| Name :- Std. Weight Box Certificate No. :- NC-486 Certified By :- NSTAR ID/Sr. No. :- RTS-WB-06 Range :- 1 mg to 200 g Uncertainty :- As Per Traceability Calibration Validity :- 27.10.2023 Discipline :- Mechanical Calibration | Group :- Mass and Volume-Weights Scale and Balance |
|--|--|

4.Calibration Results :-

i. REPEATABILITY OF MEASUREMENTS

| LOAD | REPEATABILITY OF MEASUREMENT | MAX DIFFERENCE BETWEEN SUCCESSIVE MEASUREMENTS |
|------|------------------------------|--|
| g | g | g |
| 5 | 0.000001 | 0.000002 |
| 2.5 | 0.000001 | 0.000001 |

ii. CORRECTION FOR BALANCE INDICATION (LINEARITY TEST)

| LOAD | CERTIFIED MASS OF STANDARD | OBSERVED ON UUC | CORRECTION | EXPANDED UNCERTAINTY OF |
|-------|----------------------------|-----------------|------------|-------------------------|
| g | g | g | g | mg |
| 5 | 4.9999993 | 4.999997 | -0.000002 | 0.006 |
| 2 | 1.9999990 | 2.000002 | 0.000003 | 0.006 |
| 1 | 0.9999980 | 0.999998 | 0.000000 | 0.006 |
| 0.5 | 0.5000002 | 0.500002 | 0.000002 | 0.006 |
| 0.2 | 0.1999994 | 0.200002 | 0.000003 | 0.006 |
| 0.1 | 0.1000009 | 0.100002 | 0.000001 | 0.006 |
| 0.05 | 0.0500016 | 0.050001 | -0.000001 | 0.006 |
| 0.01 | 0.0099992 | 0.010000 | 0.000001 | 0.006 |
| 0.005 | 0.0050008 | 0.005001 | 0.000000 | 0.006 |
| 0.002 | 0.0020008 | 0.002001 | 0.000000 | 0.006 |
| 0.001 | 0.0010016 | 0.001001 | -0.000001 | 0.006 |

The overall uncertainty of the balance is (F) 0.000011g

iii. OFF CENTER LOADING TEST

A weight of 2 g was placed at the centre of the balance pan & then was moved to various positions related to the center. The maximum Error due to Off Center loading, relative to center was found to be: - 0.000002 g





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CC-2927

Certificate No.: :- 22.10.IH.004

Page 2 of 2

Note:

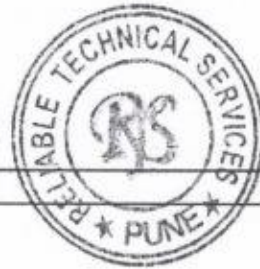
- 1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95% for normal distribution
- 2) When the sign of the correction is positive (+) the correction value should be added to the balance reading to give the correct mass value of the test weight & when it is negative (-) the correction value should be subtracted from it.
- 3) Any correction for the Air buoyancy has to be calculated assuming that the object being weighted is balanced against a hypothetical weight of density. $(7950 \pm 140 \text{ kg/m}^3 ; (k=2)$ for Stainless Steel Weights in air of measured density.
- 4) This certificate refers only to the particular item submitted for calibration
- 5) 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".
- 6) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 7) The Standard used are traceable to National / International Standard.
- 8) The calibration certificate issued for weighing balance used for scientific or industrial purposes only
- 9) The above Errors are within the maximum permissible error as per Clause 3.5.1 table 6 of OIML Recommendation No. 76-1 Edition 2006 (E)

Calibrated By

Kalunke

Calibration Engineer

V. Salunke



Approved By

Sachin

Technical Manager

Sachin A. Mhasawade

RF-21, R0

Vinamra Swaraj Hospital
 Plot 108,108/1,109,
 Sector 11, Vashi, Navi Mumbai-400 703

| SR.NO | INSTRUMENT NAME | TYPE | Sr No. | MAKE/Model No | RANGE | UNIT | L.C | LOCATION | CAL DATE | DUE DATE |
|-------|-----------------|--------|---------|-------------------|-------------|------|-------|----------|------------|------------|
| 1 | Micropipette | Analog | LW09719 | ThermoScientific | 1000 | µl | Fixed | -- | 11.08.2023 | 10.08.2024 |
| 2 | Micropipette | Analog | KW04363 | ThermoScientific | 5 to 50 | µl | 0.5 | -- | 11.08.2023 | 10.08.2024 |
| 3 | Micropipette | Analog | KW00408 | ThermoScientific | 20 to 200 | µl | 1 | -- | 11.08.2023 | 10.08.2024 |
| 4 | Micropipette | Analog | FJ91954 | ThermoScientific | 20 to 200 | µl | 1 | -- | 11.08.2023 | 10.08.2024 |
| 5 | Micropipette | Analog | N03046 | Labsystems | 10 to 100 | µl | 1 | -- | 11.08.2023 | 10.08.2024 |
| 6 | Micropipette | Analog | F63526 | Labsystems | 5 to 40 | µl | 0.5 | -- | 11.08.2023 | 10.08.2024 |
| 7. | Micropipette | Analog | J35413 | Labsystems | 5 to 50 | µl | 0.5 | -- | 11.08.2023 | 10.08.2024 |
| 8 | Micropipette | Analog | N18567 | Labsystems | 100 to 1000 | µl | 5 | -- | 11.08.2023 | 10.08.2024 |
| 9 | Micropipette | Analog | HH50127 | ThermoScientific | 500 | µl | Fixed | -- | 14.08.2023 | 13.08.2024 |
| 10 | Micropipette | Analog | KW01192 | ThermoScientific | 20 to 200 | µl | 1 | -- | 14.08.2023 | 13.08.2024 |
| 11 | Micropipette | Analog | W15102 | Thermo Labsystems | 1000 | µl | Fixed | -- | 14.08.2023 | 13.08.2024 |
| 12 | Micropipette | Analog | W97788 | Thermo Electron | 5 to 50 | µl | 0.5 | -- | 14.08.2023 | 13.08.2024 |
| 13 | Micropipette | Analog | PW15350 | ThermoScientific | 0.5 to 5 | ml | 0.05 | -- | 14.08.2023 | 13.08.2024 |