



Indian Calibration Services

An Exclusive House for Validation & Calibration of Analytical Instruments
 304 & 313, Laxmi Deep, District Centre, Near Nirman Vihar Metro Station, Laxmi Nagar, Delhi-110092
 Phone / Fax : (011) 22453259, 22434362, 9599482307
 E-mail : indiancalibrationservices@gmail.com Website : www.multitechcs.com

CALIBRATION CERTIFICATE

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CALIBRATION CERTIFICATE OF MICROPIPETTE

| | | | |
|-------------------------------|-------------------------|-------------------------------|------------|
| Certificate No: | 21700004629 | Issued On: | 16/04/2021 |
| ULR No: | CC214621700004629F | Calibration Date: | 14/04/2021 |
| Job Identification No: | ICS/C/MVD/04/4629 | Next Calibration Date: | 13/10/2021 |
| Ref. No: | SRF, Dated - 10/04/2021 | | |

| | |
|------------------------|--|
| CALIBRATED FOR: | M/s Gurunanak Diagnostics, Parmar Hospital, Bela Road, Ropar(Punjab). |
|------------------------|--|

EQUIPMENT DESCRIPTION

| | | | |
|-------------------|--------------------|--------------------------|--------|
| Name | Fixed Micropipette | | |
| Make/Model | CE | Visual Inspection | Ok |
| Serial No. | 601290 | I.D. No. | MP-2 |
| Range | 10 µl | Least Count | --- |
| Location | --- | Calibration Site | In-Lab |

ENVIRONMENTAL CONDITIONS

| | | | |
|--------------------|------------------|-----------------|--------------|
| Temperature | 25.0 °C ± 3.0° C | Humidity | 50 ± 10 % RH |
|--------------------|------------------|-----------------|--------------|

STANDARD EQUIPMENT DETAILS Traceable to National Standards

| Name | Make | Certificate No. | Calibration Agency | Calibration Date | Valid Upto |
|-----------------------------------|---|---------------------|--------------------|------------------|------------|
| Stainless Steel Wire Weights | E ₁ Class as per OIML recom. | WMCL/E/2020-05/3364 | WMCL | 31/05/2020 | 30/05/2023 |
| RTD Sensor with Digital Indicator | Yudian/ICS/STD/01 | ETL/2070/21/C/F/060 | FCRI, Palakkad | 24-25/02/2021 | 25/02/2022 |

| | |
|--|--|
| USED EQUIPMENT DETAILS | Calibrated Balance, Distilled Water & Glass wares |
| PRINCIPLE/METHODOLOGY OF CALIBRATION: | As per Calibration Procedure No.: ICS/CAL/SOP-M03 (Gravimetric Method), ISO 8655-6 |

RESULTS: Mechanical Calibration
 Below Volume is determined at 27°C

| U.U.C. Reading (in ml) | Standard Measured Volume (in ml) (Average) | Uncertainty at approx 95% C.L and coverage factor k=2 |
|------------------------|--|---|
| 0.0100 (010 µl) | 0.010117 (0010.117 µl) | ± 0.1 µl |

REMARKS: The recommended date for next calibration is mentioned, as asked by the customer.

END OF REPORT

- Note :**
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For and on behalf of
Indian Calibration Services

Checked by

Authorised Signatory



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CALIBRATION CERTIFICATE OF MICROPIPETTE

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|-------------------------------|-------------------------|-------------------------------|------------|
| Certificate No: | 21700004630 | Issued On: | 16/04/2021 |
| ULR No: | CC214621700004630F | Calibration Date: | 14/04/2021 |
| Job Identification No: | ICS/C/MVD/04/4630 | Next Calibration Date: | 13/10/2021 |
| Ref. No: | SRF, Dated - 10/04/2021 | | |

| | |
|------------------------|---|
| CALIBRATED FOR: | M/s Gurunanak Diagnostics, Parmar Hospital, Bela Road, Ropar (Punjab). |
|------------------------|---|

EQUIPMENT DESCRIPTION

| | | | |
|-------------------|--------------------|--------------------------|--------|
| Name | Fixed Micropipette | | |
| Make/Model | CE | Visual Inspection | Ok |
| Serial No. | IK222830 | I.D. No. | MP-03 |
| Range | 25 µl | Least Count | --- |
| Location | --- | Calibration Site | In-Lab |

ENVIRONMENTAL CONDITIONS

| | | | |
|--------------------|------------------|-----------------|--------------|
| Temperature | 25.0 °C ± 3.0° C | Humidity | 50 ± 10 % RH |
|--------------------|------------------|-----------------|--------------|

STANDARD EQUIPMENT DETAILS Traceable to National Standards

| Name | Make | Certificate No. | Calibration Agency | Calibration Date | Valid Upto |
|-----------------------------------|---|---------------------|--------------------|------------------|------------|
| Stainless Steel Wire Weights | E ₁ Class as per OIML recom. | WMCL/E/2020-05/3364 | WMCL | 31/05/2020 | 30/05/2023 |
| RTD Sensor with Digital Indicator | Yudian/ICS/STD/01 | ETL/2070/21/C/F/060 | FCRI, Palakkad | 24-25/02/2021 | 25/02/2022 |

| | |
|--|--|
| USED EQUIPMENT DETAILS | Calibrated Balance, Distilled Water & Glass wares |
| PRINCIPLE/METHODOLOGY OF CALIBRATION: | As per Calibration Procedure No.: ICS/CAL/SOP-M03 (Gravimetric Method), ISO 8655-6 |

RESULTS: Mechanical Calibration
 Below Volume is determined at 27°C

| U.U.C. Reading (in ml) | Standard Measured Volume (in ml) (Average) | Uncertainty at approx 95% C.L and coverage factor k=2 |
|------------------------|--|---|
| 0.0250 (025 µl) | 0.025065 (0025.065 µl) | ± 0.1 µl |

REMARKS: The recommended date for next calibration is mentioned, as asked by the customer.

END OF REPORT

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For and on behalf of
Indian Calibration Services

Checked by

Authorised Signatory

Operation-Head



CC-2146

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CALIBRATION CERTIFICATE

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CALIBRATION CERTIFICATE OF MICROPIPETTE

| | | | |
|-------------------------------|-------------------------|-------------------------------|------------|
| Certificate No: | 21700004628 | Issued On: | 16/04/2021 |
| ULR No: | CC214621700004628F | Calibration Date: | 14/04/2021 |
| Job Identification No: | ICS/C/MVD/04/4628 | Next Calibration Date: | 13/10/2021 |
| Ref. No: | SRF, Dated - 10/04/2021 | | |

CALIBRATED FOR: M/s Gurunak Diagnostics,
Parmar Hospital, Bela Road, Ropar(Punjab).

EQUIPMENT DESCRIPTION

| | | | |
|-------------------|--------------------|--------------------------|--------|
| Name | Fixed Micropipette | | |
| Make/Model | CE | Visual Inspection | Ok |
| Serial No. | HJ441022 | I.D. No. | MP-01 |
| Range | 1000 µl | Least Count | --- |
| Location | --- | Calibration Site | In-Lab |

ENVIRONMENTAL CONDITIONS

| | | | |
|--------------------|------------------|-----------------|--------------|
| Temperature | 25.0 °C ± 3.0° C | Humidity | 50 ± 10 % RH |
|--------------------|------------------|-----------------|--------------|

STANDARD EQUIPMENT DETAILS Traceable to National Standards

| Name | Make | Certificate No. | Calibration Agency | Calibration Date | Valid Upto |
|-----------------------------------|---|---------------------|--------------------|------------------|------------|
| Stainless Steel Wire Weights | E ₁ Class as per OIML recom. | WMCL/E/2020-05/3364 | WMCL | 31/05/2020 | 30/05/2023 |
| RTD Sensor with Digital Indicator | Yudian/ICS/STD/01 | ETL/2070/21/C/F/060 | FCRI, Palakkad | 24-25/02/2021 | 25/02/2022 |

USED EQUIPMENT DETAILS Calibrated Balance, Distilled Water & Glass wares

PRINCIPLE/METHODOLOGY OF CALIBRATION: As per Calibration Procedure No.: ICS/CAL/SOP-M03 (Gravimetric Method), ISO 8655-6

RESULTS: Mechanical Calibration
Below Volume is determined at 27°C

| U.U.C. Reading (in ml) | Standard Measured Volume (in ml) (Average) | Uncertainty at approx 95% C.L and coverage factor k=2 |
|------------------------|--|---|
| 1.0000 (1000 µl) | 1.00074 (1000.74 µl) | ± 0.1 µl |

REMARKS: The recommended date for next calibration is mentioned, as asked by the customer.

END OF REPORT

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For and on behalf of
Indian Calibration Services

Handwritten Signature
Checked by

Handwritten Signature
Authorised Signatory

Operation-Head



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CALIBRATION CERTIFICATE OF LABORATORY CENTRIFUGE

| | | | |
|-------------------------------|------------------------|-------------------------------|------------|
| Certificate No: | 21900001482 | Issued On: | 16/04/2021 |
| ULR No: | CC214621900001482F | Calibration Date: | 14/04/2021 |
| Job Identification No: | ICS/C/AS/04/1482 | Next Calibration Date: | 13/10/2021 |
| Ref. No: | SRF, Dated -10/04/2021 | | |

CALIBRATED FOR: M/s Gurunanak Diagnostics,
 Parmar Hospital, Bela Road, Ropar(Punjab).

EQUIPMENT DESCRIPTION

| | | | |
|-------------------|---|--------------------------|---------|
| Name | RPM Measurement for Laboratory Centrifuge , With Speed Controlling Knob | | |
| Make/Model | Remi / R-303 | Visual Inspection | Ok |
| Serial No. | ZFFN-19097 | I.D. No. | CF-01 |
| Range | Up to 3500 RPM | Least Count | --- |
| Location | --- | Calibration Site | On-Site |

ENVIRONMENTAL CONDITIONS

| | | | |
|--------------------|------------------|-----------------|---------------|
| Temperature | 25.0 °C ± 2.0° C | Humidity | 45 to 75 % RH |
|--------------------|------------------|-----------------|---------------|

STANDARD REFERENCE DETAILS Traceable to National Standard (NPL, New Delhi)

| Name of the Standard | Make | Certificate No. | Calibration Agency | Date of Calibration | Valid up to |
|----------------------|-----------------|--------------------|--------------------|---------------------|-------------|
| Digital Tachometer | LUTRON/DT-2234C | FCRI/EQL/19-20/051 | FCRI, Palakkad | 26/04/2019 | 26/04/2021 |

USED EQUIPMENT DETAILS Not Applicable

PRINCIPLE/METHODOLOGY OF CALIBRATION: As per Calibration Procedure No.: ICS/CAL/SOP-RPM01 (Measurement Method)

RESULTS: Mechanical Calibration MEASUREMENT: (in RPM)

| CENTRIFUGE' KNOB POSITION | CORRECTED VALUE OF TACHOMETER READING (Avg.) | Uncertainty at approx 95% C.L and coverage factor k=2 |
|---------------------------|--|---|
| Position # 1 | 1517 | ± 4 |
| Position # 2 | 1943 | ± 4 |
| Position # 3 | 2468 | ± 5 |
| Position # 4 | 3052 | ± 6 |
| Position # 5 | 3483 | ± 6 |

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For and on behalf of
Indian Calibration Services

Checked by

Authorised Signatory

RAJESH K
 Operation-Head