



EURO CALIBRATION TECHNIQUE

No. 387, IInd Floor, TIC Road, Varadharajapuram,
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CERTIFICATE OF CALIBRATION

Certificate Number : ECT 2021/0239- 15

Date of Issue : 15-Mar-2021

ULR Number : CC2519 21 0 00002445F

Pages : 1 of 2

Customer Name and Address

SRF Number : 2021/0239

M/s. ICTC JIPMER,

Reciept Date : 12-Mar-2021

Institute Block, Opp to Admin Block,

Date of Calibration : 12-Mar-2021

ICTC JIPMER,

Suggested calibration Due Date : 11-Mar-2022

Puducherry - 605 006.

Calibrated at In House

Customer Reference : Work Order

Calibration Procedure : ECT/WI-M-06

Equipment Under Calibration

Physical Condition : Good

Name : Micropipette

Make : Erba Biohit

Range : 20 to 200 µl

Model : --

S.No : 6121537

Accuracy : As Per Manual

ID No. : JIP/HIV/ICTC/MICRO-PIPETTE/001

Location : --

Environmental Conditions

Temperature 25.8 °C

Relative Humidity 55.0 %RH

Atmosphere Pressure 1000 mbar

Standard Equipment used for Calibration

| S.No | Standard Instrument | Serial No | Certificate number | Validity |
|------|---------------------|-----------|---------------------|------------|
| 1 | Semi Microbalance | 31504484 | TVCSPL 20/10/882-04 | 30.09.2021 |

Calibration Results

Parameter - Mechanical / Volume

1. Volume Measurement for Low value 20 µl

Number of Measurements taken is 10

| Measurements | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| µl | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 20.06 | 19.98 | 19.95 | 19.85 | 19.78 | 19.68 | 19.62 | 19.77 | 19.93 | 19.95 |

Mean Volume 19.86 µl

Systematic Error -0.14 µl

Random Error 0.14 µl

Measurement Uncertainty± 0.36 µl



Checked By

Authorized Signatory
K.ABDUL VAJITH / R.SATHYAKALA

REMARKS: 1. Calibration certificate traceable to National / international standards which realize the units of measurement according to the international system of units (SI).
2. This certificate shall not be reproduced except in full without return approval of Euro Calibration Technique. 3. The Calibration results reported in the certificate as valid at the time of and under the stated condition of measurement for the particular equipment. 4. Next Calibration due date mentioned as per the customer requirement. 5. The measurement confidence level is 95% for a coverage factor k=2. 6. Calibration certificate issued for weights & measure parameter i.e mass, balance, volumetric equipments are for scientific or industrial purpose only.



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2. Volume Measurement for Low value 100 μ l
Number of Measurements taken is 10

| Measurements | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| μ l | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 99.75 | 99.82 | 99.93 | 99.81 | 99.78 | 99.79 | 99.69 | 100.07 | 100.09 | 100.01 |

Mean Volume 99.87 μ l
Systematic Error -0.13 μ l
Random Error 0.14 μ l
Measurement Uncertainty \pm 0.36 μ l

3. Volume Measurement for Low value 200 μ l
Number of Measurements taken is 10

| Measurements | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| μ l | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 199.82 | 199.77 | 199.68 | 199.59 | 199.89 | 199.72 | 199.52 | 199.78 | 199.86 | 199.89 |

Mean Volume 199.75 μ l
Systematic Error -0.25 μ l
Random Error 0.13 μ l
Measurement Uncertainty \pm 2.00 μ l

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