

S J V Scientific Company

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CALIBRATION REPORT

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|---|--|---|-------|-------------------------------------|--------------------------------|-------------------------------------|--------|-------------------------------------|--------|
| REPORT No. : 23102601433 | CDS No. : 1433 | | | | | | | | |
| Date : 06-10-23 | Instrument : Micropipette | | | | | | | | |
| Customer Name: THE MEDICAL OFFICER GOVT. PRIMARY HEALTH CENTRE GUDALUR GOUNDAMPALAYAM - 641020 | Type : Variable Volume Brand : Thermoscientific Model : Finnpiquette F3 Range : 10 - 100 µL Serial No. : RW01640 Received on : 04-10-23 | | | | | | | | |
| Environmental Conditions: Temperature : 27.7 °C Atmospheric Pressure : 1004 hpa Humidity : 58% RH Z Factor : 1.0045 µl/mg | | | | | | | | | |
| Balance Used For Calibration: Brand: SHIMADZU (AUW220D) SI.No. D561600036 Capacity: 220g, Readability: 0.01mg | | | | | | | | | |
| Traceability of Calibration: Master Name Lab ID No. / Sr No. Valid upto Traceability Semi Microbalance PCS/MASTER/SMB/01 13-06-2024 Equation, Chennai Semi Microbalance Calibrated at NABL Accredited Calibration Laboratory. | | | | | | | | | |
| 1. Lower Volume: 10 µl No.of Measurements: 10 | | | | | | | | | |
| 9.99 | 10.07 | 10.02 | 10.00 | 10.03 | 10.08 | 9.89 | 9.93 | 10.07 | 10.02 |
| Mean Volume V: 10.01 µl | | Error Limits | | Error Limits | | Error Limits | | Error Limits | |
| Systematic Error es µl : 0.01 (± 0.12)µl | | Random Error in Sr µl : 0.06 (± 0.08)µl | | Random Error in CV % : 0.6 (± 0.8)% | | Random Error in CV % : 0.6 (± 0.8)% | | Random Error in CV % : 0.6 (± 0.8)% | |
| Systematic Error in % : 0.1 (± 1.2)% | | Random Error in CV % : 0.6 (± 0.8)% | | Random Error in CV % : 0.6 (± 0.8)% | | Random Error in CV % : 0.6 (± 0.8)% | | Random Error in CV % : 0.6 (± 0.8)% | |
| 2. Middle Volume: 50 µl | | No.of Measurements: 10 | | No.of Measurements: 10 | | No.of Measurements: 10 | | No.of Measurements: 10 | |
| 49.24 | 49.25 | 49.37 | 49.23 | 48.90 | 49.35 | 48.59 | 49.34 | 50.14 | 50.13 |
| Mean Volume V: 49.35 µl | | Error Limits | | Error Limits | | Error Limits | | Error Limits | |
| Systematic Error es µl : -0.65 (± 0.5)µl | | Random Error in Sr µl : 0.48 (± 0.2)µl | | Random Error in CV % : 1.0 (± 0.4)% | | Random Error in CV % : 1.0 (± 0.4)% | | Random Error in CV % : 1.0 (± 0.4)% | |
| Systematic Error in % : -1.3 (± 1.0)% | | Random Error in CV % : 1.0 (± 0.4)% | | Random Error in CV % : 1.0 (± 0.4)% | | Random Error in CV % : 1.0 (± 0.4)% | | Random Error in CV % : 1.0 (± 0.4)% | |
| 3. Nominal Volume: 100 µl | | No.of Measurements: 10 | | No.of Measurements: 10 | | No.of Measurements: 10 | | No.of Measurements: 10 | |
| 99.96 | 100.37 | 100.07 | 99.95 | 99.98 | 99.09 | 99.20 | 100.06 | 99.29 | 100.32 |
| Mean Volume V: 99.83 µl | | Error Limits | | Error Limits | | Error Limits | | Error Limits | |
| Systematic Error es µl : -0.2 (± 0.8)µl | | Random Error in Sr µl : 0.5 (± 0.3)µl | | Random Error in CV % : 0.5 (± 0.3)% | | Random Error in CV % : 0.5 (± 0.3)% | | Random Error in CV % : 0.5 (± 0.3)% | |
| Systematic Error in % : -0.2 (± 0.8)% | | Random Error in CV % : 0.5 (± 0.3)% | | Random Error in CV % : 0.5 (± 0.3)% | | Random Error in CV % : 0.5 (± 0.3)% | | Random Error in CV % : 0.5 (± 0.3)% | |
| Calibration Procedure as per ISO 8655 Part 6 | | | | | | | | | |
| Calibrated on: 06.10.2023 | | | | | Calibration Due On: 05.10.2024 | | | | |

V. Raju Head of Lab

SJV Scientific Company

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