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CALIBRATION CERTIFICATE : CC254321000000053P **ULR Number** MES/280121/C4 Certificate Number

Nucleus Healthcare Laboratory & ECG, Irikkur Customer Details

28/01/2021 29/01/2021 Date of SRF Date of Calibration : 30/01/2021 Date of Issue 28/01/2022 Next Calibration Due

DETAILS OF DEVICE UNDER CALIBRATION (DUC)

: HH96696 Serial No. : Micropipette Nomenclature

ID No. Thermo Scientific / Finnpipette F3 Make / Model

: 0.1 µL Resolution Equipment Condition Good Location 5-50 µL

DETAILS OF MASTER EQUIPMENT USED

: 0-210 gm Electronic Precision Balance Range Nomenclature : 0.01/0.1 mg Readability Boeco Make 27104178 Serial No. BBC-22 Model

Calibration Due Date 14.01.2022 Certificate No. MES/210114/EB/C1

ENVIRONMENTAL CONDITIONS

Atmospheric Pressure (mbar) Water Temperature(°C) Relative Humidity (%) Temperature(°C) 29.4 1009 42 29.2

CALIBRATION RESULTS

Discipline :		Mechanical		Parameter		: Volume	
SI.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
No.	μΙ	μΙ	ш	±μl	μl·	±μl	±μl
1	5	5.00	0.00	0.13	0.03	0.08	0.102
2	25	24.93	0.07	0.50	0.06	0.20	0.160
3	50	49.91	0.09	0.50	0.06	0.20	0.161

Notes:-

Range

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced except in full without the written approval of this centre.

THRISSUR-21

- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

The tests and /or Calibration marked with an * are not accredited by NABL

Calibrated by

(Calibration Engineer)

Authorized Signatory

Binoj Thomas

(Technical Manager)