



# MUTHU SURGICALS

101ANNAI COMPLEX, NEW BUS  
 STSND, PERAMBALUR -621212  
 GST NO : 33DDEPMI487D1ZQ  
 UDYAM REG NO : TN-16-000072  
 PHONE NO : 8056356534

## CALIBRATION CERTIFICATE

Certificate No: MS84\MPT072023 Page. NO : 11 Of 2

Customer Name & Address

**THE MEDICAL OFFICER,  
 GOVERNMENT PRIMARY HEALTH CENTRE,  
 KALLANKURICHY , 621705.**

Date of Receipt	11-08-2023
Date of Calibration	11-08-2023
Due Date for Calibration	12-08-2024
Issue Date	10-08-2023

### Details Of Unit Under Calibration

Description	Micro Pipette	Make	THERMO FISHER SCIENTIFIC
Range	10-100GL	Model	MICROLUX
Resolution		Material	PVC
Serial Number	RW01908	Operating Range	
V		Condition of UUC	
Cal. At	Mechanical Lab	Instrument Location	LAB

### Environmental Condition

### Calibration Method Used

Temperature (°c)	23.9	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°0)	21.6	Cal Procedure No	SBS/CP/ML/08

### Standard Used

Sl. No.	Description	ID.No. / SL No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	15112918	TVCSP21/12/1587-01	& GH-252	National Standards	12-08-2024

Z Factor. 1.00319

Result of Calibration in gl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )
1	10	99.72	9.74	99.76	99.77	99.78	99.76	-024	0.02	0.47
		99.76	99.77	99.76	99.77	99.78				
2	50	498.76	498.78	498.77	498.76	498.77	498.77	-1.23	0.01	0.47
		498.77	498.76	498.76	498.77	498.76				
3	100	999.82	999.84	999.86	999.87	999.86	999.86	-0.14	0.02	0.47
		999.87	999.87	999.86	999.87	999.87				

Remarks

1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
2. The user should determine the suitability of the instrument for its intended use.
3. The recalibration interval should be determined on the user requirement.
4. The results stated in this certificate relate only to the item calibrated.
5. Equipment used for Calibration were calibrated & traceable to National & International Standards
6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor  $k=2.00$ .
7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By

*N. Muthazhagan*  
 (Calibration bio medical Engineer)  
 N.MUTHAZHAGAN

