



# MUTHU SURGICALS

101ANNAI COMPLEX, NEW BUS  
STSND, PERAMBALUR -621212

GST NO : 33DDEPM1487D1ZQ

UDYAM REG NO : TN-16-000072

PHONE NO : 8056356534

## CALIBRATION CERTIFICATE

Certificate No: MS96\MPT072023

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Customer Name & Address

**THE MEDICAL OFFICER,  
GOVERNMENT PRIMARY HEALTH CENTRE,  
PONPARAPPI, 621710.**

Date of Receipt	23-09-2023
Date of Calibration	24-08-2023
Due Date for Calibration	25-09-2024
Issue Date	23-09-2023

### Details Of Unit Under Calibration

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000GL	Model	FINNPIPETTE F3
Resolution		Material	PVC
Serial Number	RW05674	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	TVCSPL21/12/1587-01	& GH-252	National Standards	25-09-2024



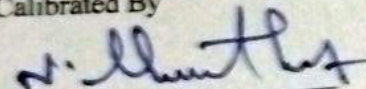
Z Factor: 1.00319

Result of Calibration in g/l											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )	
1	100	99.72	9.74	99.76	99.77	99.78	99.76	-0.24	0.02	0.47	
		99.76	99.77	99.76	99.77	99.78					
2	500	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	1000	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 Grade 3 as specified in ISO 3696.

Calibrated By

  
 (Calibration bio medical Engineer)  
 N.MUTHAZHAGAN

