



MUTHU SURGICALS

101 ANNAI COMPLEX, NEW BUS

STSN, PERAMBALUR - 621212

GST NO : 33DDEPM1487D1ZQ

UDYAM REG NO : TN-16-000072

PHONE NO : 8056356534

CALIBRATION CERTIFICATE

Certificate No: MS116\MPT072023

Customer Name & Address

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**THE MEDICAL OFFICER,
POYYTHANALLUR PHC,
621718,**

Date of Receipt	28-08-2023
Date of Calibration	28-08-2023
Due Date for Calibration	29-08-2024

Details Of Unit Under Calibration

Description	Micro Pipette	Make	THERMO FISHER SCIENTIFIC
Range	100-1000GL	Model	FINNPIPETTE F3
Resolution		Material	PVC
Serial Number	QW-10867	Operating Range	
V		Condition of UUC	
Cal. At	Mechanical Lab	Instrument Location	

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 (°C)	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	02-01-2024

Z Factor. 1.00319

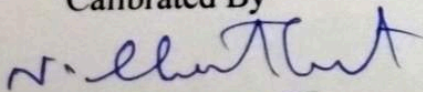
Result of Calibration in gl

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	100	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

Authorized Signature

