



REPORT ON							
ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION							
Report No : TR/APHC/022/23-24			Calibration Date : 08/03/2023				
Page 1 Of 2			Calibration Due : 07/03/2024				
1.1 CUSTOMER DETAILS							
Name and address of the organisation			Primary Health Centre				
			New Gh Road, Opposite State Bank Of India, Ayalur,				
			Gobichettipalayam, Erode District,				
Reference and Date			Tamil Nadu, 638453				
Date of receipt of item			Letter dated 08-03-2023				
1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)							
Nomenclature			MICRO PIPPETTE				
A.	Manufactured by		THERMO SCIENTIFIC				
B.	Model		FINNPIPETTE				
C.	Serial No.		4640060				
D.	Biomedical Product ID		APHC/LAB/PIP/02				
E.	Pipette Range		10 to 1000 µl				
F.	Accuracy		As per the manual				
G.	Calibration method		Gravimetric				
H.	Location		LABORATORY				
1.3 CONDITION OF THE ITEM WHEN RECEIVED							
No visible damage and in working order							
1.4 ENVIRONMENTAL CONDITION OF MEASUREMENTS							
A.	Temperature		20.8°C				
B.	Relative Humidity		45-75%				
C.	Ambient Barometric Pressure		756mmHg				
1.5 Applicable Specification			IS/ISO 4787:2010				
1.6 Test Done			Performance Testing				
1.7 STATUS							
Manufactures Specification		Users Specification	Within Specification	Out of Specification	Calibration	Electrical Safety Test	Performance Analysis
✓		-	✓	-	✓	-	✓
1.8 TRACEABILITY DETAILS OF INSTRUMENTS USED FOR TESTING							
Sl No	Name of the Instrument		Make	Model	Serial No	Cal Due	Traceability Reference
1.	Semi Micro Balance		MS Micro Balances	TVCS1510438	31504484	MAY 2023	Annexure 1

Tested BY :

Balamuralikrishnan K
(Biomedical Engineer)



Approved by :

Priya M
(Quality Manager)

FL BIOMEDICAL

189, Vasantham Paradise,
Chithode, Erode-638102.
Cell: 7092848995

1.9 Calibration results :

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1. Volume measurement for Low value 100 μ l

Number of measurements taken is 10

Measurements										
μ l										
1	2	3	4	5	6	7	8	9	10	TEST RESULT
99.94	99.82	99.94	99.93	99.89	99.88	99.87	99.99	99.92	99.96	PASS
Mean Volume									99.91 μ l	
Random Error									0.011 μ l	
Measurement Uncertainty \pm									0.02 μ l	

2. Volume measurement for Middle value 500 μ l

Number of measurements taken is 10

Measurements										
μ l										
1	2	3	4	5	6	7	8	9	10	TEST RESULT
499.78	499.65	499.98	499.92	499.97	499.85	499.88	499.86	499.98	499.95	PASS
Mean Volume									499.88 μ l	
Random Error									0.034 μ l	
Measurement Uncertainty \pm									0.03 μ l	

3. Volume measurement for High value 1000 μ l

Number of measurements taken is 10

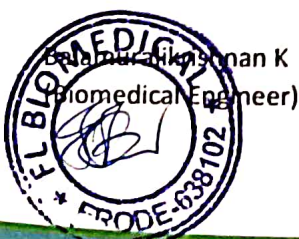
Measurements										
μ l										
1	2	3	4	5	6	7	8	9	10	TEST RESULT
999.79	999.98	999.94	999.86	999.86	999.75	999.82	999.96	999.94	999.91	PASS
Mean Volume									999.88 μ l	
Random Error									0.023 μ l	
Measurement Uncertainty \pm									0.02 μ l	

2.0 REMARKS

2.1	This report is applicable to the sample tested only.
2.2	The instruments used for testing are under valid calibration and are traceable to National Standards.
2.3	Uncertainty is calculated at 95.45% CL with k=2
2.4	refer NABL Doc No. 129 Chapter -1D, Accommodation and environmental Conditions sub Clause see 7.2.11 below in line with ISO/IEC 17025:2017 Clause 5.3

Tested BY :

Approved by :



Priya M. 
(FL BIOMEDICAL)

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