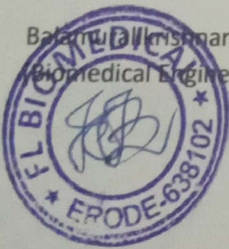




REPORT ON						
ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION						
Report No : TR/PUPHC/013/22-23			Calibration Date : 15-08-2022			
Page 1 Of 2			Calibration Due : 14-08-2023			
1.1 CUSTOMER DETAILS						
Name and address of the organisation			UPHC PERIYASEMUR Near panchayat office, Periyasemur Erode Tamil Nadu – 638004			
Reference and Date			Letter dated 14-08-2022			
Date of receipt of item			14-08-2022			
1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)						
Nomenclature			MICRO PIPETTE			
A.	Manufactured by		DRAGON LAB			
B.	Model		DRAGON			
C.	Serial No.		YE6K756453			
D.	Biomedical Product ID		PUPHC/LAB/PIP/02			
E.	Pipette Range		10 to 100 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		28.8°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 :

Balan K Mishra
(Biomedical Engineer)



Approved by :

Priya M
(Quality Manager)

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

Phone : 7708938995

Regd Address : 189, Vasantham Paradise, Chithode, Erode - 638102

Email: flbcalibration@gmail.com





1.9 Calibration results :

1. Volume measurement for Low value 10 µl

Number of measurements taken is 10

Measurements										TEST RESULT
µl										
1	2	3	4	5	6	7	8	9	10	
9.98	9.91	9.93	9.92	9.89	9.82	9.87	9.85	9.94	9.86	PASS
Mean Volume									9.90 µl	
Random Error									0.014 µl	
Measurement Uncertainty ±									0.02 µl	

2. Volume measurement for Middle value 50 µl

Number of measurements taken is 10

Measurements										TEST RESULT
µl										
1	2	3	4	5	6	7	8	9	10	
49.71	49.85	49.62	49.78	49.95	49.91	49.96	49.89	49.88	49.98	PASS
Mean Volume									49.85 µl	
Random Error									0.034 µl	
Measurement Uncertainty ±									0.04 µl	

3. Volume measurement for High value 100 µl

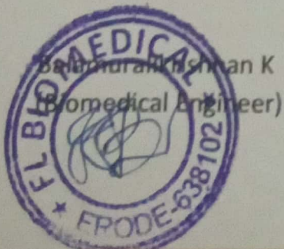
Number of measurements taken is 10

Measurements										TEST RESULT
µl										
1	2	3	4	5	6	7	8	9	10	
99.87	99.85	99.67	99.84	99.88	99.91	99.95	99.79	99.99	99.94	PASS
Mean Volume									99.87 µl	
Random Error									0.027 µl	
Measurement Uncertainty ±									0.030 µl	

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
 (Quality Manager)
FL BIOMEDICAL
 189, Vasantham Paradise,
 Chithode, Erode-638102.
 Cell: 7092848995

Phone : 7708938995

Regd Address : 189, Vasantham Paradise, Chithode, Erode - 638102

Email: flbcalibration@gmail.com

