

			CALI	BRA	TION	CERT	<b>IFICAT</b>	E		
CERTIFICATE	NO:	SBS/CL/23	/13466		MECH		CHANICAL	CHANICAL Pa		
Issue Date				07-10-2023						
SRF No & Dat	е				SRF/23/	00755-0001	& 07-10-202	3		
Receipt Date					07-10-2	023				
Calibration Da	ate				07-10-2	023				
Calibration Du	ıe				06-10-2	024				
Customer Na	me & Addr	ess								
GOVERNMEN	IT PRIMAR	Y HEALTH	CENTRE,							
VEDHALAI,RA	MANATHA	PURAM DIS	TRICT.							
			Det	tails of D	evice Un	der Calibra	tion (DUC)			
Description	:	CENTRIFU	GE		Make &	Model	:	REMI & R-8C		
Range	:	5250	RPM	Sr. No			:	686		
Resolution	:	10	RPM	Identification No		:	NA			
DUC Condition	n :	Satisfactor	1	Location		:	LABORATORY			
		Envir	onmental (	Condition	ns & Stai	dard Opera	ating Proced	ure Details		
Environmental	Details		Temperatur	e: 24.3 °	С	Relative Hu	ımidity	54 % Rh		
Calibration Procedure No SBS/CP/ML/04				/04		Calibration	done at ONSITE			
				Refer	rence Sta	indards De	tails			
S.No Descrip	otion			Make/ S	Make/ SI No:		Certificate	Validity		
1 Digital 7	Tachomete:	٢		Lutron 8	Lutron & DT-2238			JRPM-CCTR-A&S-2022-0036		
CALIBRATION	N RESULTS	S							03-10-2023	

S.No	DEVICE UNDER CALIBRATION READINGS	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY (±)
	RPM	RPM	RPM	%
1	1000	999.9	0.1	4.2
2	2000	1999.8	0.2	4.2
3	3000	2999.7	0.3	4.2

### **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. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
- 6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

(Calibration Engineer) P.PRASANNA



**Authorised Signatory** 

Chief Executive

# **SUNSHINE BIOMEDICAL SOLUTIONS**

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087, E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



SRF No.   SRF/23/0075 > -002   SRF Dat   O7-10-2023   O7-10-20223   O7-10-2023   O7-10-2023   O7-10-2023   O7-10-2023   O7-10-2023		C	ALIB	RATION CE	ERTIF	ICATE				
SRF No.   SRF/23/00755-0002   SRF/23/00755-	ificate No: SBS/CL/23/13467	7						3	Page. No: 1 of 1	
Second	omer Name & Address									
Date of Receipt   Date of Calibration   O7-10-2023     Date of Calibration   O7-10-2023     Due Date for Calibration   O6-10-2024     Issue Date   O7-10-2023     Due Date for Calibration   O6-10-2024     Issue Date   O7-10-2023     Description   MICRO PIPETTE   Make   THERMO SCIENTION     Range   100-1000μl   MICRO PIPETTE   Material   PVC     Serial Number   QW14076   Operating Range   100-1000μl     ID Number   NA   Condition of UUC   Good     Cal. At   Mechanical Lab   Instrument Location   LABORATORY     Candition of UUC   Good     Cal. At   Mechanical Lab   Instrument Location   LABORATORY     Calibration Method Used     Calibration Method Used   Material   Instrument Location   SBS/CP/ML/08     Calibration Method Used   SBS/CP/ML/08   S					SRF No.			SRF/23/00755-0002		
Date of Calibration   O7-10-2023   Due Date for Calibration   O7-10-2023   Due Date for Calibration   O6-10-2024   Issue Date   O7-10-2023   O7-1	'ERNMENT PRIMARY HEA	ALTH CENTRE,			SRF Date		07-10-2023			
Due Date for Calibration 06-10-2024  Issue Date 07-10-2023  Details of Unit Under Calibration  Description MICRO PIPETTE Make THERMO SCIENTI  Range 100-1000µl Model FINNPIPETTE F3  Resolution 1µl Material PVC  Gerial Number QW14076 Operating Range 100-1000µl Good  Cal. At Mechanical Lab Instrument Location LABORATORY   Environmental Condition Calibration Calibration Method Used  Femperature (°C) 23.5 Humidity (%RH) 52 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  St. No. Description ID.No. / Sl. No. Certificate No. Make/Model Traceability V.	HALAI,RAMANATHAPUR	Date of Re	eceipt		06-10-2023					
Issue Date   07-10-2023					Date of Ca	alibration		07-10-2023		
Details of Unit Under Calibration				Due Date	for Calibration		06-10-2024			
Description   MICRO PIPETTE   Make   THERMO SCIENTI				Issue Date	е		07-10-2023			
Range   100-1000μl   Model   FINNPIPETTE F3	ils of Unit Under Calibratio	on						•		
Resolution 1µl Material PVC  Serial Number QW14076 Operating Range 100-1000µl  D Number NA Condition of UUC Good  Cal. At Mechanical Lab Instrument Location LABORATORY  Environmental Condition Calibration Method Used  Temperature (°C) 23.5 Humidity (%RH) 52 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  SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	Description MICRO PIPETTE					Make			THERMO SCIENTIFIC	
Serial Number   QW14076   Operating Range   100-1000µl     D Number   NA   Condition of UUC   Good	ge	100-1000μΙ		Model			FINNPIPETTE F3			
D Number NA Condition of UUC Good Cal. At Mechanical Lab Instrument Location LABORATORY  Environmental Condition Calibration Method Used  Femperature (°C) 23.5 Humidity (%RH) 52 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  SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	olution	1µl			Material			PVC		
Cal. At Mechanical Lab Instrument Location LABORATORY  Environmental Condition Calibration Method Used  Temperature (°C) 23.5 Humidity (%RH) 52 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  SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	al Number	QW14076			Operating Range			100-1000μl		
Environmental Condition  Calibration Method Used  Femperature (°C)  23.5 Humidity (%RH)  52 National / International Standard ISO 8655-6:2002  Atmospheric Pressure (mbar)  1006 Water Temperature (°C)  Standard Used  SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	lumber	NA			Condition of UUC			Good		
Temperature (°C)  23.5 Humidity (%RH)  52 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  SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	Cal. At Mechanical Lab				Instrument Location LABORATOR			RY		
Atmospheric Pressure (mbar) 1006 Water Temperature (°C) 21.6 Cal Procedure No SBS/CP/ML/08  Standard Used  SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	E	Environmental Condition	ı			Calibrat	ion Metho	od Used		
Standard Used SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability V.	perature (°C)	23.5 Humidity (%	%RH)	52	National / International Standard		ISO 8655-6:2002		002	
SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Traceability Vi	ospheric Pressure (mbar)	1006 Water Temper	rature (°C)	21.6	Cal Procedure No			SBS/CP/ML/08		
The state of the s	dard Used				1					
Flectronic Weighing	No. Description	ID.No. / SI. No.	Certificate No.		Make/Model		Traceability Val		Valid till	
1 Balance 15112918 TVCSPL22/12/2115-01 A&D & GH-252 National Standards 09-	Electronic Weighing Balance	15112918	Т	TVCSPL22/12/2115-01	A&D & GH-252 N		National Standards 09-1		09-12-2023	

Z	Factor:	1.00319

	Result of Calibration in μl									
Sl. No.	Nominal Value			Observed Rea	adings	Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.94	99.96	99.94	99.92	99.93	99.95	-0.05	0.02	0.47
1	100	99.94	99.95	99.96	99.97	99.98				
2	500	499.85	499.86	499.87	499.89	499.86	499.87	-0.13	0.02	0.47
2   500	300	499.86	499.87	499.89	499.85	499.89				
3	2 1000	999.96	999.97	999.98	999.96	999.95	999.96	-0.04	0.01	0.47
3	1000	999.98	999.94	999.96	999.95	999.95				

#### Remarks

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- $2. \\ The user should determine the suitability of the instrument for its intended use.$
- $3. \\ The recalibration interval should be determined on the user requirement.$
- ${\it 4.} The \ results \ stated \ in \ this \ certificate \ relate \ only \ to \ the \ item \ calibrated.$
- $5.\ Equipment\ used\ for\ Calibration\ were\ calibrated\ \&\ traceable\ to\ National\ \&\ International\ Standards$
- 6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.

Chennai

600 032

7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)
M.ADHIBAN

Authorised by:

Quality Manager/Chief Executive)
C.SIVABALAN

# SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087, E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



				CALIB	RATION C	ERTIF	ICATE				
Certificate No:	SBS/CL/23/13468									Page. No: 1 of 1	
Customer Name	e & Address										
						SRF No.			SRF/23/00755-0003		
GOVERNMENT	Γ PRIMARY HEA	LTH CENT	TRE,			SRF Date			07-10-2023		
/EDHALAI,RAMANATHAPURAM DISTRICT.						Date of R	eceipt		06-10-2023		
							alibration		07-10-2023		
					Due Date	for Calibration		06-10-2024			
						Issue Dat	e		07-10-2023		
Details of Unit	Under Calibratio	on									
Description MICRO PIPETTE					Make			THERMO SCIENTIFIC			
Range 10-100µl					Model			FINNPIPETTE F3			
Resolution 0.2µl					Material			PVC			
Serial Number		QW11128				Operating Range			10-100µl		
ID Number		NA				Condition	n of UUC		Good		
Cal. At		Mechanica	l Lab			Instrument Location LABORATORY			RY		
	E	nvironmen	tal Condition	on			Calibratio	on Method	d Used	-	
Temperature (°C) 23.6 Hum			Humidity	(%RH)	54	National / International Standard			ISO 8655-6:2002		
Atmospheric Pressure (mbar) 1006		1006	Water Temperature (°C)		21.6	Cal Procedure No			SBS/CP/ML/08		
Standard Used					1	1			1		
SI. No. I	Description	ID.No.	/ SI. No.		Certificate No.		Make/Model Trac		eability	Valid till	
1 Elect	ronic Weighing Balance	1511	2918	Т	VCSPL22/12/2115-01		A&D & GH-252	National Standard		09-12-2023	

	Result of Calibration in μl										
Sl. No.	Nominal Value			Observed Rea	adings	Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)		
1	10.0	9.96	9.95	9.98	9.96	9.97	9.97	-0.03			
1	10.0	9.98	9.96	9.97	9.98	9.95			0.01	0.47	
2	50.0	49.86	49.85	49.87	49.86	49.85	49.91				
	30.0	49.95	49.96	49.97	49.95	49.95		-0.09	0.05	0.47	
3	100.0	99.98	99.97	99.98	99.96	99.98	99.96	-0.04		0.47	
	100.0	99.95	99.96	99.94	99.95	99.96			0.01		

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- 4.The results stated in this certificate relate only to the item calibrated.
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- 6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.

Chennai

600 032

7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)
M.ADHIBAN

Authorised by:

Quality Manager/Chief Executive)
C.SIVABALAN

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