

			CAL	.IBRAT	<u> 101</u>	V CER	TIFI	CA:	<u>TE</u>		
CERTIFICATE	NO: SE	S/CL/23/	15897	<del></del>		М	EDICA	L DEV	ICES	Page	No:1 of 1
Issue Date					28-10-2023						
SRF No & Date	<b>)</b>				SRF/23/00969-0001 & 27-10-2023						
Receipt Date					27-10-2023						
Calibration Dat	te				27-10	-2023					
Calibration Du	е				26-10	-2024					
Customer Name	e & Add	ress									
<b>GOVERNMEN</b>	T COM	NUNITY F	EALTH CEN	TRE,							
NATHAM,ULUI	PPAGU	DI-62440	I,DINDIGUL I								
				Details of D	evice !	Jnder Calibra	ation (D	UC)			
Description	:	SEMI A	AUTO ANALYZ	ZER	Make	& Model		:	ROBONIK & PRIETI	EST TOUC	4
Range	•	MULTI			Sr. No	<b>o</b>		:	ATCD0420621BK		
Resolution	:	MULTI			Identi	fication No		:	NA		
DUC Condition	:	SATIS	FACTORY		Locat			:	BIOCHEMISTRY LA	\B	
			Enviror	mental Cond	litions	& Calibration	n Proce	dure (	Details		
Environmental D	Details		Temperature:	25.6°C		Relative Hun	nidity		52% RH		<u> </u>
Calibration Proc	edure N	0	SBS/CP/MD/2	20		Calibration d	one at		ONSITE		
				Refe	ence	Standards De	etails				
S.No Descripti	on			Make/ SI No	e/ SI No:		Certificate No				Validity
1 Electrical	Safety A	nalyser	Rigel Medica	dical & 44L-1059 M-2		M-230	M-230809-16-4			10-08-2024	

		ELECTRICAL SAFETY							
RESULTS									
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)						
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)						
	>20MΩ	80	13.92						
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)						
	<5000µAfor B,BF,CF	161	10.4						
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)						
	<500µAfor B,BF,CF	218	8.8						

#### REMARKS

- 1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- ${\bf 2. The\ user\ should\ determine\ the\ suitability\ of\ the\ instrument\ for\ its\ intended\ use.}$
- 3. The recalibration interval should be determined on the user requirement.
- $\ensuremath{\mathsf{4}}.\ensuremath{\mathsf{The}}$  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





Chief Executive

**Authorised Signatory** 

# **SUNSHINE BIOMEDICAL SOLUTIONS**



				CAL	IBRA'	TION	CERT	TIFICATI				
CERT	FICATE NO	:	SBS/CL/23	3/15898				MECHANICAL	P	age No:1 of 1		
Issue I	Date					28-10-2023						
SRF N	o & Date					SRF/23/00969-0002 & 27-10-2023						
Receip	t Date					27-10-20	23					
Calibra	ition Date					27-10-20	23					
Calibra	ition_Due				. <u> </u>	26-10-20	24					
Custor	ner Name & .	Addres	3 <u>\$</u>									
GOVE	GOVERNMENT COMMUNITY HEALTH CENTRE,											
NATH	AM,ULUPPA	GUDI	-624401,DIN	DIGUL DIS	STRICT.							
				D	etails of D	evice Un	der Calibr	ation (DUC)				
Descri	ption	;	CENTRIFU	JGE		Make & I	Model	:	MICROSIL & MK-	10		
Range	<b>!</b>	:	3500	RPM		Sr. No		:	42/385			
Resolu	ıtion	:	1	RPM		Identifica	ition No	:	NA ·			
DUC (	Condition	:	Satisfactor	у		Location		:	BIOCHEMISTRY	LAB		
			Envi	ronmental	Conditio	ns & Star	dard Ope	rating Procedu	re Details			
Enviro	nmental Det	ails		Temperati	ıre: 25.4°	Š	Relative H	umidity	54% Rh			
Calibration Procedure No SBS/CP/ML/04					IL/04	04 Calibration		n done at	ONSITE			
Reference Standards							indards De	etails				
S.No Description Make					Make/	Make/ SI No:		Certificate N	Validity			
1 Digital Tachometer				LINE S	EIKI / 175	-0034V	JRPM-CCTF	09-06-2024				

### CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.6	1.4	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	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	d Signatory
Quality Manager (C.SIVABALAN)	Chief Executive

## **SUNSHINE BIOMEDICAL SOLUTIONS**



			CAL	<u>IBRA</u>	TION C	ERTIF	<u>ICATE</u>			
Certificat	e No: SBS/CL/23/15899									Page. No:1 of 1
Customer	r Name & Address									
						SRF No.			SRF/23/00969	-0003
GOVERN	MENT COMMUNITY	HEALTH C	ENTRE,			SRF Date	e		27-10-2023	
NATHAN	M,ULUPPAGUDI-62440	ı,DINDIGI	JL DISTRICT.			Date of I	Receipt	26-10-2023		
						Date of (	Calibration		27-10-2023	
						Due Dat	e for Calibration		26-10-2024	* .
						Issue Da	ite		28-10-2023	
Details of	f Unit Under Calibratio	on							-	
Descripti	on	Micro Pipe	ette			Make			THERMO SC	IENTIFIC
Range		10-100µl				Model			FINNPIPETT	E F3
Resolutio	on	0.2µi				Material			PVC	
Serial Nu	ımber	PW00625				Operatir	ng Range		10-100µl Good	
D Numb	рег	NA				Conditio	on of UUC			
Cal. At		Mechanica	al Lab			Instrum	ent Location		LABORATO	RY
		invironme	ntal Condition	·			Calibrat	ion Meth	od Used	
Tempera	ture (°C)	23.9	Humidity (%RH	I)	55	Nationa	l / International Stand	ard	ISO 8655-6:20	102
Atmospheric Pressure (mbar) 1006 Water Temperature (					21.6	Cal Proc	Cal Procedure No		SBS/CP/ML/08	
Standard	Used	· · · · · · · · · · · · · · · · · · ·	<del></del>		1,	·			•	
SI. No.	Description	ID.	No. / SI. No.		Certificate	No.	Make/Model	Traceability		Valid till
1	Electronic Weighing Balance		15112918	Т	VCSPL22/12/	2115-01	A&D & GH-252	National Standards		09-12-202
		4 -		-					Z Factor:	1.00319

				Result	of Calibration	n in µl					
Sl. No.	Nominal Value		Obs	erved Reading	;s		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9,64	9.65	9.66	9.67	9.68	9.64	-0.36	0.02	0.47	
1	10.0	9.63	9.62	9.62	9.64	9.62	7.04	-0.56	0.02	J.17	
2	50.0	49.64	49.68	49.66	49.67	49.65	49.64	-0.36	0.02	0.47	
2	30.0	49.62	49.63	49.64	49.62	49.62	47.04	~0.36	0.02	0.47	
3	100.0	98.65	98.62	98.63	98.64	98.63	98.64	-1.36	0.01	0.47	
3	100.0	98.66	98.64	98.65	98.62	98.64	90.04	-1.50	0.01	0.47	

### Remarks

- 1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- $2. \\ The user should determine the suitability of the instrument for its intended use.$
- ${\bf 3.} The\ recalibration\ interval\ should\ be\ determined\ on\ the\ user\ requirement.$
- 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.

600 032

7. Calibration Liquid Used: Distilled or Deionized water scholled in IS

Calibrated By,

(Calibration Engineer) M.RAGUL

(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.



			CAL	<u>IBRA</u>	TION CE	RTIFI	CATE				
Certificat	e No: SBS/CL/23/15900								· :	Page. No : 1 of 1	
Custome	r Name & Address										
						SRF No.			SRF/23/00969	-0004	
GOVERN	IMENT COMMUNITY	HEALTH (	CENTRE,			SRF Date			27-10-2023		
NATHAN	M,ULUPPAGUDI-62440	GUDI-624401, DINDIGUL DISTRICT.  Date of Receipt							26-10-2023		
						Date of C	alibration		27-10-2023		
						Due Date	for Calibration		26-10-2024		
						Issue Dat	e		28-10-2023		
Details o	f Unit Under Calibratio	on									
Descripti	ion	Micro Pip	ette			Make			THERMO SC	IENTIFIC	
Range		100-1000µ	1			Model			FINNPIPETT	E F3	
Resolutio	on	1µl				Material			PVC		
Serial Nu	ımber	RW13628				Operating	g Range		100-1000μl Good		
ID Numl	ber	NA	_		_	Condition	n of UUC				
Cal. At		Mechanic	al Lab			Instrume	nt Location		LABORATO	RY	
	I	 Environme	ntal Condition			T .	Calibrat	ion Meth	od Used		
Tempera	ture (°C)	23.9	Humidity (%RH)	)	55	National	/ International Standa	ard	ISO 8655-6:20	002	
Atmosph	neric Pressure (mbar)	1006	Water Temperature	(°C)	21.6	Cal Proce	dure No		SBS/CP/ML/0	08	
Standard	l Used		<u> </u>								
SI. No.	Description	ID.	No. / SI. No.		Certificate No		Make/Model	Tra	ceability	Valid till	
1	Electronic Weighing Balance		15112918	Т	VCSPL22/12/211	5-01	A&D & GH-252	Nation	al Standards	09-12-2023	
		•							Z Factor:	1.00319	

				Result	of Calibratio	n in µl					
Sl. No.	Nominal Value		Obs	erved Reading	ζS		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)	
	100	99.92	99.91	99,92	99.91	99.90	99.91	-0.09	0.01	0.47	
1	100	99.92	99.91	99.91	99.92	99.92	99.91	-0.07	0.01		
_	500	499.67	499.68	499.67	499.68	499.67	499.68	-0.32	0.01	0.47	
2	500	499.68	499.67	499.68	499.68	499.67	277.00	-0.32	0.01	0.17	
	1000	999.66	999.65	999.64	999.63	999.62	999.63	-0.37	0.02	0.47	
3	1000	999.65	999.64	999.62	999.62	999.61	999.03	-0.57	0.02	0.47	

### 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 containing Charles as specified in ISO 3696.

Calibrated By,

(Calibration Engineer) M.RAGUL

Authorised by: (Quality Manager/Chief Executive) C.SIVABALAN

# SUNSHINE BIOMEDICAL SOLUTIONS

600 032



			CAL	<u>IBRAT</u>	ION CE	<u>RTIFI</u>	<u>CATE</u>					
Certificat	te No: SBS/CL/23/15901									Page. No : 1 of 1		
Custome	r Name & Address					<del>, -</del>						
						SRF No.			SRF/23/00969	9-0005		
GOVERN	IMENT COMMUNITY	HE <b>ALT</b> H C	ENTRE,	SRF Date 27-10					27-10-2023			
NATHA!	M,ULUPPAGUDI-62440	1,DINDIGU	JL DISTRICT.			Date of R	eceipt	26-10-2023				
						Date of C	alibration		27-10-2023			
						Due Date	for Calibration	Calibration 26-10				
		Issue Date 28						28-10-2023				
Details o	f Unit Under Calibratio	on										
Descripti	ion	Micro Pipe	tte			Make			THERMO SCIENTIFIC			
Range		10-100µl				Model			FINNPIPET	TE F3		
Resolutio	on	0.2μ1				Material			PVC			
Serial N	umber	PW01465	•			Operating	g Range		10-100µl			
ID Numl	ber	NA				Condition	n of UUC		Good			
Cal. At		Mechanica	l Lab			Instrume	nt Location		LABORATO	RY		
	E	nvironmen	tal Condition			Ţ —	Calibrat	ion Metho	od Used	•		
Tempera	iture (°C)	23.9	Humidity (%RH	)	55	National	/ International Stand	ard	ISO 8655-6:2	002		
	neric Pressure (mbar)	ressure (mbar) 1006 Water Temperature (°C) 21.6 Cal Procedure No SBS/CP/ML/C				08						
Standard	l Used		ı	<u> </u>		<b>.</b>	-		·			
SI. No.	Description	ID.	No. / SI. No.		Certificate No.		Make/Model	Trac	ceability	Valid till		
1	Electronic Weighing Balance	1	5112918	TVC	SPL22/12/2115	-01	A&D & GH-252	Nationa	National Standards			

										Z Factor: 1.0031
		<u> </u>		Result	of Calibratio	n in µl		<u>-</u> -		
Sl. No.	Nominal Value		Obs	erved Reading	çş.		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.89	9.90	9,91	9.93	9.95	9.94	-0.06	0.03	0.47
1	10.0	9.92	9.95	9.96	9.98	9.97	9,94	-0.06	0.03	V.47
2	50.0	49.88	49.87	49.80	49.82	49.86	49.87	-0.13	0.04	0.47
2	30.u	49.85	49.87	49.86	49.94	49.92	49.07	-0.13	0.04	0.17
3	100.0	99.98	99.99	99.86	99.87	99.94	99.79	-0.21	0.22	0.47
3	100.0	99.84	99.86	98.85	99.83	99.84	77./9	-0.21	0.33	0.47

### 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.
- $5. \ Equipment \ used \ for \ Calibration \ were \ calibrated \ \& \ traceable \ to \ National \ \& \ International \ Standards$
- $6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately \ 95\% \ for a$ nter contemble 0) rade 3 as specified in ISO 3696.
- 7. Calibration Liquid Used: Distilled or Deionized

Calibrated By,

(Calibration Engineer) M.RAGUL

Authorised by: (Quality Manager/Chuef Executive) C.SIVABALAN

## **SUNSHINE BIOMEDICAL SOLUTIONS**

Chennai

600 032

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