

_			CALIE	BRATI	ON C	ERTII	-ICATE	-	_ ·
CERT	IFICATE NO:	SBS/CL	/23/13867			М	ECHANICAL	Pag	ge No:1 of 1
Issue	Date				15-09-20)23		•	
SRF N	No & Date				SRF/23/	00829-0001	& 14-09-2023		
Recei	pt Date				14-09-20	23			
Calibr	ation Date				14-09-20)23			
Calibr	ation Due				13-09-20	24			
Custo	mer Name & Ado	ress							
GOVE	RNMENT PRIM	ARY HEALT	H CENTRE,					. " <u>-</u>	
KATT	UKOTTAI-63645	3,SALEM DI	STRICT.						
			Deta	ils of Devi	ce Under	Calibratio	n (DUC)	· ·	
					}	•		B.D INSTRUME	NTATIONS & BD
Descr	iption :	CENTRI	FUGE		Make &	Model	:	152	
Range	:	350	00 RPM		Sr. No		;	NA	
Resol	ution :		1 RPM		Identifica	ition No	:	NA	
DUC (Condition :	Satisfac	tory		Location	_	:	LABORATORY	
		Envir	onmental C	onditions	& Standa	rd Operatii	ng Procedure	Details	
Enviro	nmental Details		Temperate	ure: 25.6 °C		Relative Hu	ımidity	57% Rh	
Calibr	ation Procedure	No	SBS/CP/N	/IL/04		Calibration	done at	ONSITE	
				Referen	ce Stand	ards Detail	s		
S.No	Description			Make/ S	SI No:		Certificate No)	Validity
1	Digital Tachom	eter		LINE SE	EIKI / 175	-0034V	JRPM-CCTR	-A&S-2023-0013	09-06-2024

CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY (±)
	RPM	RPM	RPM	%
1	1000	999.7	0.3	4.2
2	2000	1999.5	0.5	4.2
3	3500	3499.4	0.6	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

Quality Manager Chief Executive

C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS



				<u>UA</u>	IDKA	110	N CERT	II-IÇ/	4 <i>1E</i>	
CERT	IFICATE N	io: sb	S/CL/23/ ⁻	13868			М	DICAL D	EVICES	Page No:1 of 1
Issue	Date		•			15-0	9-2023			
SRF I	No & Date					SRF	23/00829-000	02 & 14-09	1-2023	
Recei	pt Date					14-0	9-2023			
Calibr	ation Date	!				14-0	9-2023			
	ation Due					13-0	9-2024			
Custo	mer Name	& Addre	ess_							
				TH CENTR	Ε,		·			· ·
KATT	UKOTTAI-	636453	,SALEM	DISTRICT.						
				- 10.	Details of I	Device	Under Calibra	tion (DUC	<u> </u>	
Descri	ption	:	SEMI A	UTO ANALY	ZER	Make	& Model	:	ROBONIK & PRIET	TEST TOUCH
Range)	:	MULTI			Sr. N	0	:	AT1400211RBK	
Resolu	ution	:	MULTI			Identi	fication No	:	NA	
DUC C	Condition	:	SATISE	ACTORY	_	Locat	ion	:	LABORATORY	
				Enviro	nmental Con	ditions	& Calibration	Procedur	e Details	
Enviro	nmental De	tails		Temperature	25.6 ° C		Relative Hum	idity	52% RH	
Calibra	ation Proced	dure No		SBS/CP/MD/	20		Calibration do	ne at	ONSITE	
					Refe	erence	Standards Dei	tails		
S.No	Description	ח			Make/ SI No) :		Certificate	No	Validity
₁ İ	Electrical S	afetv An	alvser		Rigel Medic	al & 44I	-1050	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	99	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	166	7.6
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	226	7.2

REMARKS

- 1. This Calibration contificate 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

Prasant A

P.PRASANNA

Chennai Con 032

Technical Manager C.SHANMUGARAJ

Chief Executive

Authorised Signatory

SUNSHINE BIOMEDICAL SOLUTIONS



		CALIE	BRATIC	ON CERT	IFICATI	<u> </u>			
CERTIFICATE NO:	SBS/CL/23/13	869	-		THERMAL	Pag	je No:1 of 1		
Issue Date	<u> </u>			15-09-2023					
SRF No & Date				SRF/23/00829-0003 & 14-09-2023					
Receipt Date				14-09-2023					
Calibration Date				14-09-2023					
Calibration Due				13-09-2024					
Customer Name & Addr	ess	•					-		
GOVERNMENT PRIM	ARY HEALTH CEI	NTRE,	=		-	- 	·		
KATTUKOTTAI-63645	3,SALEM DISTRI	CT.							
	•	Deta	ails of Devic	e Under Calibra	tion (DUC)				
Description	TEMPERATUR SENSOR OF (F			Make & Model	:	LG & GL/1950MGE4/2	014		
Range	: 2-8	°C		Sr. No	:	NA			
Resolution	: 0.1	°C		Identification No	;	NA			
DUC Condition	: Satisfactory			Location	:	LABORATORY			
		Environment	tal Condition	s & Calibration	Procedure De	etails			
Environmental Details		Temperature	e: 25.8°C	Relative H	umidity	54% Rh	•		
Calibration Procedure	No	SBS/CP/TH	/04	Calibration	done at	ONSITE			
			Reference	Standards Det	ails		-		
S.No Description			Make/ SI No	o:	Certificate I	No	Validity		
1 RTD Sensor wit				ns & Tempsens / TMS/22/6		62 01 10-1			

CALIBRATION RESULTS

S.No.	DEVICE UNDER CALIBRATION READINGS	STANDARD INSTRUMENTS READINGS	DEVIATION	EXPANDED UNCERTAINTY (±)
	°C	°C	°C	•C
1	2.0	1.7	0.3	0.62
2	5.0	4.8	0.2	0.62
3	8.0	7.9	0.1	0.62

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.
- 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
- 7. Temperature Scale:International Temperature Scale,1990(ITS-90)
 Calibrated By

(Calibration Engineer)
P.PRASANNA



(Chief Executive)

Authorised Signatory

SUNSHINE BIOMEDICAL SOLUTIONS



			<u>C/</u>	<u> ALIBR</u>	<u>ATION</u>	CERTI	FICATE			
Certificate	e No: SBS/CL/23/13870	_								Page. No: 1 of 1
Customer	r Name & Address									
						SRF No.			SRF/23/00829	-0004
GOVERN	MENT PRIMARY HEALTH	i CENTRE	,			SRF Date			14-09-2023	
KATTUK	OTTAI-636453,SALEM DIS	TRICT.				Date of Receipt			13-09-2023	
						Date of Calibration			14-09-2023	
						Due Date	for Calibration		13-09-2024	
						Issue Dat	e		15-09-2023	
Details of	f Unit Under Calibration									
Description	on	MICRO	PIPETTE			Make			THERMO SC	IENTIFIC
Range 100-1000µl						Model			FINNPIPETT	E F3
Resolutio	on	1µl		-		Material			PVC	
Serial Nu	ımber	RW1152	2			Operating	Operating Range			
ID Numb	per	NA				Condition of UUC			Good	
Cal. At		Mechani	cal Lab			Instrume	Instrument Location LABC			RY
	Envir	onmental	Condition		<u>-</u>	<u> </u>	Calibrat	ion Metho	d Used	
Temperat	ture (°C)	23.2	Humidity	(%RH)	53	National .	/ International Standard		ISO 8655-6:20	002
Atmosph	eric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	dure No		SBS/CP/ML/0	08
Standard	Used			-					• .	
Sl. No.	Description	ID.N	o. / SI. No.		Certificate N	D.	Make/Model	Trac	eability	Valid till
1	Electronic Weighing Balance	15	112918	TV	CSPL22/12/21	15-01	A&D & GH-252	Nationa	l Standards	09-12-2023

Z	Factor:	1.00319

				Resu	ılt of Calibrat	tion in µl				·
Sl. No.	Nominal Value		OI	oserved Read	lings		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
	100	99.94	99.95	99.92	99.96	99.94	99,94	-0.06	0.02	0.47
1	100	99.91	99.92	99.94	99.95	99.96	99.9 4	-0.06	0.02	0.47
2	500	499.85	499.87	499.88	499.87	499.89	499.88	-0.12	0.01	0.47
2	500	499.87	499.89	499.90	499.88	499.89	477.00	-0.12	0.01	0.47
3	1000	999,99	999.98	999.97	999.96	999.95	999.95	-0.05	0.03	0.47
3	1000	999.95	999.90	999.91	999.94	999.95	999.90	-0.05	0.03	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
- ZANGED:CA 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 Deioniz

Calibrated By,

(Calibration Engineer) M.RAGUL

ide3 as specified in ISO 3696.

Authorised by:

nager/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.



			<u>C</u>	<u> ALIBR</u>	<u>ATION</u>	<u>I CERTI</u>	<u>FICATE</u>			
Certificat	e No: SBS/CL/23/13871					-	. <u> </u>		P	age. No ; 1 of 1
Customer	Name & Address									
						SRF No.			SRF/23/00829-	0005
GOVERN	MENT PRIMARY HEALTH	I CENTRE,				SRF Date			14-09-2023	
(ATTUK	OTTAI-636453,SALEM DIS	TRICT.				Date of R	eceipt		13-09-2023	
						Date of C	alibration		14-09-2023	
						Due Date	for Calibration		13-09-2024	
						Issue Date	e		15-09-2023	
Details of	f Unit Under Calibration									
Description	on	MICRO F	IPETTE		_	Make			THERMO SCI	ENTIFIC
Range	-	10-100µl				Model			FINNPIPETTI	E F3
Resolutio	on	0.2µl			. =	Material			PVC	
Serial Nu	ımber	RW09120				Operating	Range		10-100μl	
ID Numb	per	NA				Condition	of UUC		Good	
Cal. At		Mechanio	al Lab			Instrumer	nt Location		LABORATOR	Υ
	Envir	onmental (Condition				Calibra	tion Meth	od Used	
Temperat	ture (°C)	23.2	Humidity ((%RH)	53	National A	International Standard		ISO 8655-6:20	02
Atmosph	eric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	dure No		SBS/CP/ML/0	8
Standard	Used					•				
SI. No.	Description	ID.No	. / SI. No.		Certificate l	No.	Make/Model	Tra	ceability	Valid till
1	Electronic Weighing Balance	15	12918	TV	CSPL22/12/2	1115-01	A&D & GH-252	Nation	al Standards	09-12-2023
		-							Z Factor:	1.00319

				Rest	ılt of Calibrat	ion in µl				
Sl. No.	Nominal Value		Ol	oserved Read	lings		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.87	9.86	9.88	9.88	9.88	9.87	-0.13	0.01	0.47
1	10.0	9.88	9.88	9.87	9.86	9.87	9.07	-0.13	0.01	0.47
2	50.0	49.80	49.80	49.82	49.81	49.85	49.81	-0.19	0.02	0.47
	50.0	49.82	49.80	49.82	49.82	49.78	49.81	-0.19	0.02	0.47
3	100.0	99,84	99.86	99.87	99.87	99.88	99.87	-0.13	0.01	0.47
3	100.0	99.87	99.88	99.86	99.87	99.88	77.0/	-0.13	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.
- 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

600 032

6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage 7. Calibration Liquid Used: Distilled or Dentilled water con Calibrated By, factor k=2.00.

forming Grade3 as specified in ISO 3696.

(Calibration Engineer) M.RAGUL

Chennai

Authorised by:

SUNSHINE BIOMEDICAL SOLUTIONS

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



			C	<u> ALIBR</u>	ATIO	N CERT	IFICATE				
Certifica	te No: SBS/CL/23/13872					•				Page. No:1 of 1	
Custome	r Name & Address										
						SRF No.			SRF/23/00829	-0006	
GOVERN	NMENT PRIMARY HEALTI	1 CENTRE	•			SRF Date	2		14-09-2023		
KATTUK	COTTAI-636453,SALEM DIS	TRICT.				Date of R	Date of Receipt				
						Date of C	Date of Calibration 14-				
						Due Date	for Calibration		13-09-2024		
						Issue Dat	te		15-09-2023		
Details o	f Unit Under Calibration	_			· -						
Descript	ion	MICRO I	PIPETTE			Make			MICROLUX		
Range 10-100μl						Model			NA		
Resolutio	on	1μl				Material	Material				
Serial N	umber	NA				Operatin	Operating Range			10-100µl	
D Numi	ber	NA				Condition	Condition of UUC			Good	
Cal. At		Mechanic	al Lab			Instrume	nt Location		LABORATOR	Y.	
	Envir	onmental (Condition				Calibra	tion Meth	od Used		
l'empera	ture (°C)	23.2	Humidity	(%RH)	53	National	/ International Standard	i	ISO 8655-6:20	02	
Atmospheric Pressure (mbar) 1006 Water Temperature (°C)					21.6	Cal Proce	Cal Procedure No SBS/6			BS/CP/ML/08	
Standard	Used	<u></u>							·	- · · · · ·	
SI. No.	Description	ID.No	. / SI. No.		Certificate	No.	Make/Model	Trac	eability	Valid till	
1	Electronic Weighing Balance	151	12918	TVO	CSPL22/12/	2115-01	A&D & GH-252	Nationa	al Standards	09-12-2023	

Z Factor: 1.00319 Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.95	9.96	9.94	9.93	9.92	9.94	-0.06	0.01	0.47
		9.95	9.94	9.96	9.94	9.95				
2	50	49.95	49.96	49.97	49.98	49.98	49.97	-0.03	0.01	0.47
		49.97	49.98	49.96	49.97	49.98				
3	100	99.96	99.95	99.97	99.98	99.96	99.96	-0.04	0.01	0.47
		99.96	99.97	99.96	99.95	99.94				

Remarks

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- 2. The user should determine the suitability of the instrument for its intended use.
- $3. \\ The recalibration interval should be determined on the user requirement.$
- 4. The results stated in this certificate relate only to the item calibrated.
- $5.\ Equipment\ used\ for\ Calibration\ were\ calibrated\ \&\ traceable\ to\ National\ \&\ International\ Standards$
- 4.The results stated in

 5. Equipment used for Calibration were cancel.

 6.The indicated uncertainties are expanded uncertainty esume factor k=2.00.

 7. Calibration Liquid Used: Distilled or Description water conto 6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage

ming Grade3 as specified in ISO 36%.

Authorised by:

(Quality Manager/Cruer Executive) C.SIVABALAN

M.RAGUL

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.