

				CA	LIBRA	TIO	N CER	TIF	<u>ICA</u>	ITE	
CERT	IFICATE N	O: SB	S/CL/23/14	620			M	EDIC/	L DE	VICES	Page No:1 of 1
Issue	Date	-				14-10	-2023				•
SRF	No & Date					SRF/	23/00884-00	01 & 1	3-10-2	2023	
Recei	pt Date					13-10	-2023				
Calibration Date						13-10	-2023				
Calibr	ation Due					12-10	-2024				
Custo	mer Name	& Ad	dress								
GOVE	RNMENT	URBA	N PRIMARY	/ HEALTH	CENTRE,						
MATH	HGIRI-6351	10,KR	ISHNAGIR	I DISTRIC	Τ.						
					Details of	f Device	Under Calib	ration	(DUC)		
Dooos	intion		SEMI VII	TO ANALYZ	7ER	Make & Model : ROBONIK & PRIETEST TOUCH					
Descr	-		MULTI	I O ANALIZ		Sr. No : ATCD2310818RBK					
Range Resol		•	MULTI			Identification No : NA					
	Condition	·	SATISFA	CTORY		Local			•	LABORATORY	
000	<u>Sonajion</u>	<del></del> .	<u> </u>		nmental Co		s & Calibration	on Pro	cedure	Details	
Fnviro	onmental De	ails	Te	emperature			Relative Hur		-	56% RH	
	ation Proced			BS/CP/MD/			Calibration d	lone at		ONSITE	····
						ference	Standards D	etails			
S.No	No Description N			Make/ SI N	e/ SI No:		Certificate No			Validity	
			D: 1188-11	edical & 44L-1059		M-230809-16-4			10-08-2024		

<b>ELECTRICAL S</b>	SAFETY
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S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20ΜΩ	70	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
-	<5000µAfor B,BF,CF	126	8.1
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	194	7.4

### 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 Authorised Signatory

(Calibration Engineer) E.ESWAR





Chief Executive



			CALI	BRA	TION	CERT	IFICATE				
CERTIF	ICATE NO:	SBS/CL/2	3/14621			М	ECHANICAL	P	age No:1 of 1		
Issue Da	ate				14-10-2023						
SRF No	& Date				SRF/23/00884-0002 & 13-10-2023						
Receipt	Date				13-10-20	23					
Calibrat	ion Date				13-10-20	)23					
Calib <u>rat</u>	ion Due				12-10-20	)24					
Custon	ner Name & A	ddress									
GOVER	NMENT URB	AN PRIMARY H	EALTH CEN	ITRE,							
MATHIC	GIRI-635110,I	KRISHNAGIRI D	ISTRICT.								
			Det	ails of D	evice Un	der Calibra	tion (DUC)				
Descrip	tion :	CENTRIF	JGE		Make & Model : SS ENTERPRISES & NA			6 & NA			
Range	:	3500	RPM		Sr. No		:	9035			
Resolut	ion :	1	RPM		Identifica	ation No	:	NA			
DUC Co	ondition :	Satisfacto	ry		Location : LABORATO			LABORATORY			
		Env	ironmental (	Conditio	ns & Stai	ndard Opera	ating Procedu	re Details			
Environ	mental Detail	s	Temperatur	e: 25.4°	С	Relative Hu	midity	54% Rh			
Calibrat	tion Procedure	e No	SBS/CP/ML	/04		Calibration	done at	ONSITE			
				Refe	rence Sta	andards De	lalis				
S.No [	Description		·	Make/	ake/ SI No: Certi		Certificate N	Certificate No			
1 (				LINE S	EIKI / 17				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	1999.8	0.2	4.2		
3	3000	2998.7	1.3	4.2		

# 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.

Calibrated By
(Calibration Engineer)
E.ESWAR



Authorised	a Signatory
Quality Manager (C.SIVABALAN)	Chief Executiv

# SUNSHINE BIOMEDICAL SOLUTIONS



				CAL	LIBRA	TIO	N CER	TIFI(	CA	TE		
CERT	IFICATE N	IO: SB	S/CL/23/	14622	<del></del>		M	EDICAL	DE	VICES	Page No:1 of 1	
Issue	Date					14-10-2023						
SRF N	No & Date					SRF/	23/00884-00	03 & 13	10-2	2023		
Receipt Date						13-10	)-2023					
Calibration Date							0-2023					
Calibration Due							0-2024					
Custo	mer Name	e & Ad	dress									
GOVE	RNMENT	URBA	N PRIMA	RY HEALTH	CENTRE,							
MATH	IIGIRI-635	110,KF	RISHNAG	IRI DISTRICI	Γ							
					Details of I	Device	Under Calibr	ration (D	UC)			
Descri	iption	:	ELECT SAFET	RICAL Y(MICROSCO	OPE)	PE) Make & Model		;		COSLAB & NA		
Range	<del>)</del>	:	MULTI			Sr. N	0	:		STD-9		
Resolu	ution	:	MULTI			Identi	fication No	:		NA		
DUC (	Condition	:	SATIS	ACTORY		Locat		:		LABORATORY		
				Enviro	nmental Cor	dition	s & Calibratio	n Proce	dure	Details		
Enviro	nmental De	tails		Temperature:	25.6°C		Relative Hum	nidity		52% RH		
Calibr	ation Proced	dure No	)	SBS/CP/MD/2	29		Calibration d	one at		ONSITE		
					Refe	erence	Standards D	etails				
S.No	511.0 5000 p.101				Make/ SI No	;		Certific	ate l	No	Validity	
1					Rigel Medica	ai & 44	L-1059	M-230809-16-4 10-08			10-08-2024	

	ELECTRICAL SAFETY									
RESULTS										
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)							
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)							
	>20 <b>M</b> Ω	100	13.92							
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)							
	<5000µAfor B,BF,CF	164	7.6							
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)							
	<500µAfor B,BF,CF	234	7.2							

#### **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.

(Calibration Engineer) E.ESWAR

Calibrated By



Technical Manager
C.SHANMUGARA.

Chief Executive

**Authorised Signatory** 



			<u>CAL</u>	<u>IBRAT</u>	<u>ION CE</u>	<u>RTIFI</u>	<u>CATE</u>			
Certificate N	io: SBS/CL/23/14623									Page. No : 1 of 1
Customer Na	ame & Address									
						SRF No.			SRF/23/00884-0004	
GOVERNME	ENT URBAN PRIMA	RY HEALT	'H CENTRE,			SRF Date			13-10-2023	
MATHIGIRI	-635110,KRISHNAG	IRI DISTRI	CT.			Date of R	eceipt		12-10-2023	
						Date of C	alibration		13-10-2023	
						Due Date	for Calibration		12-10-2024	
						Issue Dat	e		14-10-2023	
Details of U	nit Under Calibratio	on								
Description		Micro Pipe	ette			Make			MICROLUX	
Range		100-1000µl	l			Model			NA	
Resolution		10µl				Material			PVC	
Serial Numb	ber	NA				Operating Range 100-1000µl				
ID Number		NA				Condition of UUC Good				
Cal. At		Mechanica	l Lab			Instrument Location LABORATORY			RY	
	E	invironmen	tal Condition				Calibrat	ion Meth	od Used	
Temperatur	e (°C)	23.8	Humidity (%RH	<u></u>	53	National	/ International Standa	ard	ISO 8655-6:20	002
Atmospheri	c Pressure (mbar)	1006	Water Temperature	(°C)	21.6	Cal Proce	dure No		SBS/CP/ML/0	)8
Standard Us	sed	<u></u>			•					
SI, No.	Description	ID.	No. / SI. No.	(	Certificate No.	. Make/Model		Tra	Traceability	
1 E	lectronic Weighing Balance	1	5112918	TVC	CSPL22/12/2115	i-01	A&D & GH-252	Nation	al Standards	09-12-2023
				-					Z Factor:	1.00319

				Result	of Calibration	ninµl					
Sl. No.	Nominal Value		Obs	erved Reading	<b>z</b> s		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)	
4	100	99.48	99.46	99,47	99.46	99.48	99.47	-0.53	0.01	0.47	
1	100	99.47	99.46	99.48	99.48	99.48	99.47	-0.53	0.01	0.47	
2		500.20	500.22	500.24	500.26	500.28	E00.2E	0.25	0.02	0.45	
2	500	500.27	500.26	500.26	500.25	500.25	500.25	0.25	0.02	0.47	
3	1000	1000.30 1000.32 1000.34 1000.36 1000.36	1000.37	0.37	0.04	0.47					
3	1000	1000.38	1000.40	1000.42	1000.44	1000.40	1000.57	0.37	0.04	0.47	

- 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.

Chennai

600 032

7. Calibration Liquid Used: Distilled or Deionized water in DIC de3 as specified in ISO 3696.

Calibrated By,

M. Military (Calibration Engineer) M.ADHIBAN

Authorised by:

Quality Manager Chief Executive) C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS



			<u>CAL</u>	<u>IBRA</u>	TION CE	RTIFI	<u>CATE</u>				
Certificat	e No: SBS/CL/23/14624	Į								Page. No : 1 of 1	
Customer	Name & Address		· · · · · · · · · · · · · · · · · · ·						,	•	
						SRF No.			SRF/23/00884-0005		
GOVERN	MENT URBAN PRIMA	ARY HEAL	TH CENTRE,			SRF Date			13-10-2023		
<b>1ATHIG</b>	IRI-635110,KRISHNAC	GIRI DISTR	ICT.			Date of R	eceipt		12-10-2023		
						Date of C	alibration		13-10-2023		
						Due Date	for Calibration		12-10-2024		
						Issue Dat	e		14-10-2023		
Details of	f Unit Under Calibratio	on									
Description Micro Pipette					Make			MICROLUX			
lange	oge 5-50µl					Model			NA		
Resolutio	n	1րվ				Material			PVC		
erial Nu	ımber	NA				Operating	g Range		10-50µl		
D Numb	er	NA				Condition	n of UUC		Good		
Cal. At		Mechanic	al Lab			Instrume	nt Location	LABORATORY			
	I	Environme	ntal Condition				Calibrat	ion Meth	od Used		
Temperat	ture (°C)	23.8	Humidity (%RH	)	53	National	/ International Standa	ard	ISO 8655-6:20	002	
Atmosph	eric Pressure (mbar)	1006	Water Temperature	: (°C)	21.6	Cal Proce	dure No		SBS/CP/ML/0	)8	
Standard	Used	<u> </u>	· ·								
SI. No.	Description	ID	.No. / SI. No.		Certificate No	).	Make/Model	Tra	ceability	Valid till	
1	Electronic Weighing Balance		15112918	т	VCSPL22/12/21:	15-01	A&D & GH-252	Nation	al Standards	09-12-2023	
	·	•		•					Z Factor.	1.00319	

Result of Calibration in µl									
Nominal Value	Observed Readings					Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1 10	9.87	9.86	9.87	9.87	9.88	9.87	-0.13	0.01	0.47
	9.88	9.86	9.87	9.88	9.89				
20	29.76	<b>2</b> 9. <b>7</b> 7	29.78	29.79	29.76	29.78	-0.22	0.01	0.47
30	29.77	29.78	29.79	29.78	29.78				
	Value	Value  9.87  9.88  29.76	Value  9.87 9.86  9.88 9.86  29.76 29.77	Nominal Value         Observed Reading           10         9.87         9.86         9.87           9.88         9.86         9.87           29.76         29.77         29.78	Nominal Value         Observed Readings           10         9.87         9.86         9.87         9.87           9.88         9.86         9.87         9.88           29.76         29.77         29.78         29.79	Nominal Value         Observed Readings           10         9.87         9.86         9.87         9.87         9.88           9.88         9.86         9.87         9.88         9.89           29.76         29.77         29.78         29.79         29.76	Nominal Value         Observed Readings         Mean Value           10         9.87         9.86         9.87         9.87         9.88         9.87           9.88         9.86         9.87         9.88         9.89         9.87           30         29.76         29.77         29.78         29.79         29.76         29.78	Nominal Value         Observed Readings         Mean Value         Systematic c Error           10         9.87         9.86         9.87         9.88         9.89         9.87         -0.13           30         29.76         29.77         29.78         29.79         29.76         29.78         -0.22	Nominal Value         Observed Readings         Mean Value         Systemati c Brandom Error           10         9.87         9.86         9.87         9.88         9.89         9.87         -0.13         0.01           30         29.76         29.77         29.78         29.79         29.76         29.78         -0.22         0.01

49.87

49.87

#### Remark

1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.

49.88

 $2. \\ The user should determine the suitability of the instrument for its intended use.$ 

49.87

49.86

- 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

49.88

Grade3 as specified in ISO 3696.

49.88

Calibrated By,

M. Adhisay (Calibration Engineer) M.ADHIBAN Authorised by:

0.47

Cuality Manager/Chief Executive)

0.01

# **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.