

				CAL	BRAT	ION	CER	TIFI(CA	<u>TE</u>		
CERI	IFICATE NO): SBS	/CL/23/	15033			Ī	IEDICA	L DE	VICES	Page N	o:1 of 1
Issue	Date					19-10-2023						
SRFI	No & Date					SRF/23/00928-0001 & 18-10-2023						
Recei	pt Date					18-10-2023						
Calibi	ation Date					18-10-2023						
Calibi	ation Due					17-10-2024						
Custo	mer Name &	Addre	<u>\$8</u>					•				
GÓVI	RNMENT F	RIMA	RY HEAI	TH CENTRE	,		·					
KARI	YAMANIKAN	<i>1</i> -6210	05,TRIC	HY DISTRIC	Τ.							
			'	l	Details of De	vice U	nder Calibra	tion (D	UC)			
Descr	iption	:	SEMI A	UTO ANALYZ	ER	Make	& Model		:	ROBONIK & PRIETE	EST TOUCH	
Range	•	:	MULTI			Sr. No)		:	ATCD2700818RBK		
Resol	ution	:	MULTI			Identi	fication No		:	NA		
DUC (Condition	<u>:</u>	SATISE	ACTORY		Locat	ion		:	LABORATORY		
				Environn	nental Condi	tions	& Calibration	Proce	dure	Details		
Enviro	nmental Deta	ils		Temperature:	25.6°C		Relative Hur	nidity		52% RH		
Calibr	ation Procedu	ire No		SBS/CP/MD/2	0		Calibration of	lone at		ONSITE		
					Refere	nce S	tandards De	tails		-		
S.No	S.No Description			Make/ SI No:			Certificate No		No		/alidity	
1 Electrical Safety Analyser Ri			Rigel Medical & 44L-1059			M-230809-16-4				0-08-202		

ELECTRICAL SAFETY

RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	81	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	192	9.4
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	221	8.7

REMARKS

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





Chief Executive

SUNSHINE BIOMEDICAL SOLUTIONS



				<u>CALIE</u>	<u>BRA1</u>	<u>ΓΙΟ</u>	N CER	TIFI	CAT	E		
CERT	IFICATE N	O:	SBS/CL/	23/15034		_		MECH	IANICA	 L	Page N	o:1 of 1
Issue	Date			<u></u>		19-1	0-2023		_			
SRF	No & Date					SRF	-/23/00928-0	002 & 1	8-10-20	23		
Recei	pt Date						0-2023					
Calibr	ation Date					18-1	0-2023					
Calibr	ation Due				17-10-2024							
Custo	mer Name &	Addre	<u>\$5</u>									
GOVE	RNMENT F	PRIMA	RY HEALTH	CENTRE,			-					
KARI	YAMANIKAN	<i>1</i> -6210	05,TRICHY	DISTRICT.								
				Deta	ils of De	vice	Under Calib	ration (DUC)	-		
Descr	iption	:	CENTRIF	UGE		Mak	e & Model		;	B.D.INSTRUM	ENTATION &	BDI-152
Range	•	;		3500 RPM		Sr. N	No		:	NA		
Resol	ution	:		1 RPM		Iden	tification No		:	NA		
DUC (Condition	:	Satisfacto			Loca			:	LABORATORY	1	
			Envi	ronmental Co	onditions	s & S	tandard Ope	erating	Proced	ure Details	<u> </u>	
	nmental De			Temperature	e: 25.5°C		Relative Hu	midity		52%Rh		
Calibr	ation Proced	lure No)	SBS/CP/ML	/04		Calibration	done at	•	ONSITE		·
					Refere	nce :	Standards D	etails		·		
S.No	o Description				Make/ SI No:		Certifi	cate No			Validity	
1	Digital Tachometer				LINE SEIKI / 175-0034V		JRPM-CCTR-A&S-2023-0013			09-06-2024		

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	999.0	1.0	42
2	1500	1499.5	0.5	4.2
3	3000	2999.5	0.5	42

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

600 032

- 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

MED MED Mational & International Standards. 6. Equipment used for Calibration were calibrated Ch_{ennai}

Calibrated By

(Calibration Engineer) K.SATHYAMOORTHY

Author	ised	Signa	atory

Quality Manager) (C.SIVABALAN)

(Chief Executive)

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		CAL	IBR/	ATION C	ERTI	FICATE				
Certificate No: SBS/CL/23/1503	35								Page. No: 1 of 1	
Customer Name & Address				· -	•					
GOVERNMENT PRIMARY HE	ALTH CENT	TRE,			SRF No.			SRF/23/0092	8-0003	
CARIYAMANIKAM-621005,TI	RICHY DISTF	RICT.			SRF Date			18-10-2023		
					Date of R	Receipt		18-10-2023		
					Date of C	alibration		18-10-2023		
					Due Date	for Calibration		17-10-2024		
					Issue Dat	te		19-10-2023		
Details of Unit Under Calibrat	ion									
Description	Micro Pipe	ette			Make			MICROLUX		
lange	5-50µ1			Model				NA		
Resolution	1μ1				Material			PVC		
erial Number	NA				Operating	g Range		10-50µl		
D Number	NA				Conditio	n of UUC	· ·	Good		
Cal. At	Mechanica	l Lab			Instrume	nt Location		LABORATO	RY	
En	vironmental	Condition			_	Calibrat	ion Meth	od Used		
Temperature (°C) 23.9 Humidity (%RH) 55			55	National / International Standard			ISO 8655-6:2002			
tmospheric Pressure (mbar) 1006 Water Temperature (°C)		21.6	Cal Proce	dure No		SBS/CP/ML/	08			
tandard Used			-		L			<u> </u>		
SI. No. Description	ID.No.	/ SI. No.		Certificate No.		Make/Model	Test	reability	Valid till	

1	Balance	15112918	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

<u>-</u>				Res	ult of Calibra	ition in µI				Z Factor: 1.003
Sl. No.	Nominal Value		01	served Read	lings	<u>-</u>	Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1	10	9.94	9.97	9.94	9.96	9.93				
•	10	9.98	9.95	9.92	9.97	9.96	9.95	-0.05	0.02	0.47
2	30	29.94	29.96	29.97	29.95	29.98				
2	30	29.97	29.95	29.93	29.97	29.95	29.96	-0.04	0.02	0.47
3	50	49.85	49.86	49.87	49.82	49.83	49.85	†		
	30	49.87	49.85	49.82	49.89	49.87		-0.15	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 uncertainties image and coverage factor k=2.00. coverage factor k=2.00. ter the forming the

600 032

SHO

7. Calibration Liquid Used: Distilled or Deioniz

Calibrated By,

Electronic Weighing

M- Ad lubant (Calibration Engineer) M.ADHIBAN

Authorised by:

Quality Manager/Chief Executive) C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

le3 as specified in ISO 3696.

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



			<u>C/</u>	<u>ALIBR</u>	<u>AIION</u>	CERTI	FICATE				
	te No: SBS/CL/23/1503	6								Page. No: 1 of 1	
	r Name & Address										
GOVERN	MENT PRIMARY HE	ALTH CEN	TRE,			SRF No.	SRF No.			8-0004	
KARIYAN	MANIKAM-621005,TR	UCHY DISTRICT.				SRF Dat	e		18-10-2023		
						Date of I	Date of Receipt				
						Date of Calibration			18-10-2023		
						Due Date for Calibration			17-10-2024		
	_	<u> </u>				Issue Date 19-10-2023					
	Unit Under Calibrati										
Description Micro Pipette						Make			MICROLUX		
Range	_ <u></u>	100-1000µ					Model				
Resolution	_	10µ1							PVC		
Serial Nur		NA					Operating Range			<u> </u>	
D Numbe	er 	NA				Conditio	Condition of UUC			Good	
al. At		Mechanica	al Lab			Instrume	Instrument Location			LABORATORY	
	Env	ironmental	Condition			<u> </u>	Calibra	tion Meth	od Used		
emperatu	ure (°C)	23.9	Humidity	(%RH)	55	National	/ International Stand	ard	ISO 8655-6:20	002	
tmosphe	eric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	Cal Procedure No SBS/CP/ML/08				
Standard Used								<u> </u>			
SI. No.	Ceruitate N				No.	Make/Model	Trac	ceability	Valid till		
1	Electronic Weighing Balance	1511	12918	TVC	SPL22/12/2				al Standards	09-12-2023	

				Res	ult of Calibra	ation in µl				Z Factor: 1.003	
Sl. No.	Nominal Value		O	bserved Read	lings		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)	
1	100	99.85	99.87	99.85	99.84	99.95		 			
		99.89	99.95	99.90	99.87	99.90	99.89	-0.11	0.04	0.47	
2	500	499.90	499.95	499.90	499.90	499.95		 		-	
	500	499.89	499.88	499.85	499.85	499.90	499.90	-0.10	0.03	0.47	
3	1000	999.89	999.88	999.89	999.87	999.90					
3	1000	999.93	999.90	999.91	999.94	999.95	999.91	-0.09	0.03	0.47	

- 1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
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- 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 to National & International Standards
 6. The indicated uncertainties are expanded uncertainties. Wer Chennai ilg

600 032

7. Calibration Liquid Used: Distilled or Dei

Calibrated By,

(Calibration Engineer) M.ADHIBAN

Authorised by:

Quality Manager/Chief Executive)

SUNSHINE BIOMEDICAL SOLUTIONS

rade3 as specified in ISO 3696.

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	JBR.	ATION C	ERTI	FICATE			
Certificate No: SBS/CL/23/150	37								Page. No: 1 of 1
Customer Name & Address									
GOVERNMENT PRIMARY HE	ALTH CENT	TRE,			SRF No.		SRF/23/009	28-0005	
KARIYAMANIKAM-621005,TI	RICHY DISTR	RICT.			SRF Date			18-10-2023	
					Date of I	Receipt		18-10-2023	
					Date of (Calibration		18-10-2023	
					Due Date	for Calibration		17-10-2024	
					Issue Da	te		19-10-2023	
Details of Unit Under Calibrat	ion								
Description	Micro Pipe	ette			Make			MICROLU	
Range	100-1000µI	l			Model		NA		
Resolution	1μ1				Material		PVC		
Serial Number	NA			_	Operatin	g Range		100-1000µl	
D Number	NA				Condition	n of UUC		Good	
Cal. At	Mechanica	l Lab			Instrume	nt Location		LABORATO	DRY
En	vironmental	Condition		·		Calibrat	ion Meth	od Used	
emperature (°C) 23.9 Humidity (%RH) 55		55	National / International Standard			ISO 8655-6:2002			
Atmospheric Pressure (mbar)	1006	Water Tempera	ture (°C)	21.6	Cal Proce	dure No		SBS/CP/ML	/08
itandard Used				<u> </u>	·			<u> </u>	
SI. No. Description	ID.No.	/ SI. No.		Certificate No.		Make/Model	Tee	reability	Valid till

1 Electronic Weighing Balance 15112918 TVCSPL22/12/2115-01 A&D & GH-252 National Standards 09-12-2023	SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
	1		15112918	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	

Z Factor: 1.00319

	·			Res	ult of Calibra	ation in µl				
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1	100	99.85	99.87	99.85	99.84	99.89	99.87	-0.13	0.02	0.47
		99.89	99.87	99.90	99.87	99.86				
2	500	499.90	499.87	499.90	499.90	499.85	499.88	-0.12	0.02	0.47
		499.89	499.88	499.85	499.85	499.90				
3	1000	999.89	999.88	999.89	999.87	999.90	999.89	-0.11	0.02	0.47
		999.93	999.90	999.91	999.88	999.89				

Remarks

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- 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 & trace 12 to Agriculture Revisional & International Standards
 6. The indicated uncertainties are expanded uncertainty stimated for a particular of approximately 95% for a coverage factor k=2.00.
 7. Calibration Liquid Used: Distilled or Deionized with Contoming Craces as specified in ISO 3696.

 Calibrated Rv

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.