

			CAL	LIBRA	ΤΙΟΙ	N CERT	TIFIC/	ATE			
CERI	ΓΙFICATE N	O: SB	S/CL/23/15041		T	ME	DICAL DI	EVICES	Page No:1 of 1		
ssue	Date		<u> </u>		18-10-2023						
SRFI	No & Date				SRF/	23/00930-000	1 & 18-10	-2023			
Recei	ipt Date				18-10	0-2023					
Calibi	ration Date				18-10	0-2023					
Calibi	ration Due				17-10	0-2024					
Custe	omer Name	& Add	<u>dress</u>								
GOVI	ERNMENT	PRIMA	RY HEALTH CENTE	RE,							
SIRU	GAMBUR-6	21213	TRICHY DISTRICT.								
				Details of [Device	Under Calibrat	ion (DUC)				
Descr	iption	:	SEMI AUTO ANALY	ZER	ER Make & Model :			ROBONIK & PRIET	ROBONIK & PRIETEST TOUCH		
Range	е	:	MULTI		Sr. No : ATCI			ATCD1151220RBK	ATCD1151220RBK		
Resol	ution	:	MULTI		Identi	ification No	:	NA ,			
DUC (Condition	:	SATISFACTORY		Locat		:	LABORATORY	LABORATORY		
			Enviro	nmental Con	ditions	& Calibration	Procedur	e <u>Det</u> ails			
Enviro	onmental De	tails	Temperature	:25.6 ° C		Relative Humi	dity	52% RH	52% RH		
Calibr	ation Proced	lure No	SBS/CP/MD/	20		Calibration do	ne at	ONSITE			
				Refe	rence	Standards Det	ails				
S.No	Description	1		Make/ SI No	ake/ SI No: C		Certificate	No	Validity		
1 Electrical Safety Analyser Rigel M				Rigel Medic	Medical & 44L-1059 M-230809-10			16-4	10-08-2024		

ELECTRICAL SAFETY

RESI	JL1	rs

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	97	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	175	7.5
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500µAfor B,BF,CF	229	7.2

REMARKS

- 1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- $\label{eq:continuous} \textbf{2.} \textbf{The user should determine the suitability of the instrument for its intended use.}$
- 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)

K.SATHYAMOORTHY





Chief Executive

Authorised Signatory



		CAL	.IBRA	TIO	N CER	TIFICA	<u>TE</u>					
CERTIFICATE NO:	SBS/C	L/23/15042				MECHANIC	AL	Page I	No:1 of 1			
Issue Date			18	18-10-2023								
SRF No & Date			s	SRF/23/00930-0002 & 18-10-2023								
Receipt Date			11	8-10-20	023							
Calibration Date			18	8-10-20	023							
Calibration Due			1	17-10-2024								
Customer Name &	Address											
GOVERNMENT PR	IMARY HE	ALTH CENT	RE,									
SIRUGAMBUR-621	213,TRICH	Y DISTRICT.										
			Details of [Device	Under Calib	ration (DUC))					
Description	: CENTE	RIFUGE	M	Make & Model : B.D INSTRUME			B.D INSTRUMEN	T & BDI-	153			
Range	: 3500	RPM	s	Sr. No			: 76798					
Resolution	: 1	RPM	lo	dentifica	ation No	:	NA					
DUC Condition	: Satisfa	ctory	L	ocation)	:	LABORATORY					
i	E	nvironmenta	al Conditio	ns & S	Standard Ope	erating Proc	edure Details					
Environmental Deta	ils	Temperatur	e: 25.3°C		Relative Hur	nidity	55% Rh					
Calibration Procedu	re No	SBS/CP/ML	/04		Calibration of	lone at	ONSITE					
			Refe	erence	Standards E)etails						
S.No Description			Make/ SI I	/ SI No:		Certificate N	0		Validity			
1 Digital Tache	meter		LINE SEI	EIKI / 175-0034V JRPM-CCT			R-A&S-2023-0013	09-06-2024				

CALIBRATION RESULTS

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

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.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

ドタリ (Calibration Engineer) K.SATHYAMOORTHY



Authorised Signatory

(Quality Manager)
(C.SIVABALAN)

(Chief	Executive)
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SUNSHINE BIOMEDICAL SOLUTIONS



			<u>C</u>	ALIBR.	ATION C	ERTI	FICATE				
Certifica	te No: SBS/CL/23/15043									Page. No: 1 of 1	
Custome	er Name & Address										
						SRF No.			SRF/23/00936	D-0003	
GOVERN	NMENT PRIMARY HEA	LTH CENT	RE,			SRF Date	•	18-10-2023			
SIRUGA	MBUR-621213,TRICHY	DISTRICT.				Date of R	leceipt		18-10-2023		
						Date of C	Calibration		18-10-2023		
						Due Date	for Calibration		17-10-2024		
						Issue Dat	te		18-10-2023		
Details o	of Unit Under Calibratio	on				_					
Descript	ion	PETTE					MICROLUX	IICROLUX			
Range		100-1000μ	l			Model		•	NA		
Resoluti	on	1µl				Material			PVC	С	
Serial N	umber	NA				Operating	g Range		100-1000µl		
ID Num	ber	NA			Condition of UUC Good						
Cal. At		Mechanica	l Lab			Instrume	nt Location		LABORATO	RY	
	Env	ironmental	Condition				Calibrati	on Metho	d Used		
Tempera	iture (°C)	23.9	Humidity	(%RH)	55	National	/ International Standar	d	ISO 8655-6:2002		
Atmospl	neric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	edure No		SBS/CP/ML/	08	
Standard	l Used				1				1		
SI. No.	Description	ID.No.	/SI. No.		Certificate No.		Make/Model T		Traceability Vali		
1	Electronic Weighing Balance	1511	12918	TVC	CSPL22/12/2115	-01	A&D & GH-252	Nationa	al Standards	09-12-2023	

Z Factor: 1.00319

				Re	sult of Calibr	ation in µl				•	
Sl. No.	Nominal Value		Ol	oserved Reac	lings		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.85	99.86	99.87	99.85	99.84	99.84	-0.16	0.00	0.47	
1		99.83	99.82	99.85	99.81	99.82	77.04		0.02	0.47	
2	500	499.88	499.87	499.86	499.85	499.84	400.05	0.15	0.00		
	300	499.85	499.87	499.85	499.84	499.83	499.85	-0.15	0.02	0.47	
3	1000	999.95	999.97	999.95	999.94	999.93	000.04		0.00	0.45	
3		999.92	999.91	999.93	999.94	999.95	999.94	-0.06	0.02	0.47	

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
- 6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00. AND MEDICAL STORY
- 7. Calibration Liquid Used: Distilled or Deionized water conf Chennai

Calibrated By,

(Calibration Engineer) M.RAGUL

Authorised by:

(Quality Martager/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.



			<u>C</u>	<u>ALIBI</u>	RATION C	<u>ERTIFI</u>	<u>ICATE</u>				
Certificat	te No: SBS/CL/23/15044		.,,							Page. No : 1 of 1	
Custome	r Name & Address										
						SRF No.			SRF/23/00930	-0004	
GOVERN	NMENT PRIMARY HEA	LTH CENTR	E,			SRF Date	•		18-10-2023		
IRUGA	MBUR-621213,TRICHY	DISTRICT.				Date of R	Receipt	•	18-10-2023		
						Date of C	Calibration		18-10-2023		
						Due Date	e for Calibration		17-10-2024		
						Issue Date			18-10-2023		
Details o	of Unit Under Calibratio	on									
Descripti	ion	MICRO PIPI	ETTE			Make			MICROLUX		
Range		0-50µl			•	Model			NA		
Resolutio	on	1μ1				Material			PVC		
Serial Nu	umber	NA				Operatin	g Range		10-50µl		
D Numb	ber	NA				Conditio	n of UUC		Good		
Cal. At		Mechanical I	Lab			Instrume	ent Location		LABORATOR	RY	
		invironmenta	l Conditio	n			Calibra	tion Meth	nd Used		
Temp er a	ture (°C)	23.7 F	lumidity (%RH)	54	National	/ International Stand	ard	ISO 8655-6:20	02	
Atmosph	neric Pressure (mbar)	1006 V	Vater Tempe	rature (°C)	21.6	Cal Proce	edure No		SBS/CP/ML/0	8	
Standard	Used							,	<u> </u>		
SI. No.	Description	ID.No./S	SI. No.	-	Certificate No.		Make/Model	Trac	eability	Valid til	
1	Electronic Weighing Balance	151129	918	T	VCSPL22/12/2115-0)1	01 A&D & GH-252 N		National Standards 09-12-20		
		•		-					Z Factor:	1 00210	

				Re	esult of Calibrati	ion in µl					
Sl. No.	Nominal Value			Observed Re	adings		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)	
1	10	9.91	9.93	9.92	9.94	9.96	9,94	-0.06	0.00	2.17	
4		9.94	9.95	9.93	9.95	9.95	7,74	-0.06	0.02	0.47	
2	30	29.96	29.97	29.98	29,99	29.95			0.00		
2	30	29.90	29.91	29.93	29.94	29.95	29.95	-0.05	0.03	0.47	
3	50	49.85	49.84	49.83	49.85	49.86	40.07	0.14	0.00	0.45	
3	ου ·	49.86	49.87	49.88	49.89	49.90	49.86	-0.14	0.02	0.47	

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
- 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 conforming Grade3 absorbatied in ISO 36%.
- Calibrated By, Chennai

(Calibration Engineer) M.RAGUL

Authorised by:

(Quality Manager/Chief Executive)

SUNSHINE BIOMEDICAL SOLUTIONS

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.



			<u>C</u>	ALIBI	RATION CE	RTIFI	<u>ICATE</u>			
Certificate 1	No: SBS/CL/23/15045	<u> </u>					- 			Page. No : 1 of 1
Customer N	lame & Address									
						SRF No.			SRF/23/00930	-0005
GOVERNM	ENT PRIMARY HEA	LTH CENT	RE,			SRF Date			18-10-2023	
SIRUGAMB	UR-621213,TRICHY	DISTRICT.				Date of Receipt			18-10-2023	
						Date of C	alibration		18-10-2023	
						Due Date	for Calibration		17-10-2024	
						Issue Dat	te		18-10-2023	
Details of U	Jnit Under Calibratio	on							•	
Description MICRO PIPETTE						Make			THERMO SC	IENTIFIC
Range'		5-50µl				Model			FINNPIPETI	E F3
Resolution		1µl				Material			PVC	
Serial Numl	ber	NA				Operating Range			10-50µl	
ID Number	•	NA				Condition of UUC			Good	
Cal. At		Mechanica	l Lab			Instrument Location			LABORATORY	
		inviman	tal Conditio	·n		1	Calibrat	ion Meth	nd Head	
Temperatur		1	Humidity (54	National	/ International Standa		ISO 8655-6:20	102
Atmospheri	ic Pressure (mbar)	 	Water Temp		21.6	Cal Proce	edure No		SBS/CP/ML/0	98
Standard Us	sed				1				1	
SI. No.	Description	ID.No.	/ SI. No.	-	Certificate No.	Make/Model		Traceability		Valid till
1 E	Flectronic Weighing		TVCSPL22/12/2115-01	l	A&D & GH-252	Nationa	onal Standards 09-12-202			
				.,		_			Z Factor:	1.00319

Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1	10	9.91	9.93	9.92	9.94	9.96	9.94	-0.06	0.02	0.47
		9.94	9.95	9.93	9.95	9.95				
2	30	29.96	29.97	29.98	29.99	29.95	29.95	-0.05	0.03	0.47
		29.90	29.91	29.93	29.94	29.95				
3	50	49.85	49.84	49.83	49.85	49.86	49.86	-0.14	0.02	0.47
		49.86	49.87	49.88	49.89	49.90				

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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 & traceable to National Standards 6. The indicated uncertainties are expanded uncertainty estimated for confidence evel of approximation and the confid yel of approximately 95% for a coverage factor k=2.00 . 600 032

7. Calibration Liquid Used: Distilled or Deionized water Calibrated By,

> (Calibration Engineer) M.RAGUL

Authorised by:

Quality Marager/Chief Executive)

SUNSHINE BIOMEDICAL SOLUTIONS