

				CAL	BRAT	101	CER	TIFI	CA	<u>TE</u>		
CER	TIFICATE N	O: SBS	S/CL/23/	14641		MEDICAL DE			VICES	lo:1 of 1		
ssue	Date					13-10	-2023		•			-
SRF	No & Date					SRF/23/00890-0001 & 12-10-2023						
Rece	ipt Date					12-10	-2023					
Calib	ration Date					12-10-2023						
Calib	ration Due					11-10-2024						
Custo	omer Name 8	Addre	<u> </u>									
GOVERNMENT PRIMARY HEALTH CENTRE,				1								
V.S.KOTTAI-624306,DINDIGUL DISTRICT.												
Details of				Details of De	vice U	nder Calibra	tion (C	UC)				
Description : SEMI AUTO ANALYZER		ER Make		& Model :		: GENUINE BIOSYSTEM & G			15			
Range	е	;	MULTI		Sr. No		:		:	BA-CL-823		
Resol	lution	;	MULTI		Identification No			: NA				
DUC	Condition	:	SATIS	ACTORY	Location				:	PRIMARY HEALTH	CENTRE	
				Environn	ental Cond	itions &	k Calibratio	Proce	dure	Details		
Environmental Details Temperature:25.6°C		25.6°C		Relative Hu	midity		52% RH					
Calibration Procedure No SBS/CP/MD/20		0	Calibration of		done at ONSITE		ONSITE					
					Refer	ence Si	andards De	tails			-	
S.No	S.No Description Make/ SI		Make/ SI No	l No:		Certificate No				Validity		
1 Electrical Safety Analyser Rigel Med		Rigel Medical & 44L-1059		M-230809-16-4				10-08-202				

ELECTRICAL SAFETY

R	FSI	11	TS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in $M\Omega$	Uncertainty in % (±)
	>20MΩ	87	13.92
2	Earth Leakage	Measured values in µA	Uncertainty In % (±)
	<5000µAfor B,BF,CF	195	9.3
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500µAfor B,BF,CF	241	8.4
			1

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.
- Equipment used for Calibration were calibrated & traceable to National & International Standards.
 Calibrated By

 Authorised Signatory

(Calibration Engineer) E.ESWAR





Chief Executive

SUNSHINE BIOMEDICAL SOLUTIONS



, i				CALIB	RAT	10	N CER	TIFICA	TE	-			
CERT	FICATE NO	D :	SBS/CL/2	3/14642				MECHANIC	AL	Page No	:1 of 1		
Issue	Date			· · · · · · · · · · · · · · · · · · ·	13-10-2023								
SRF N	lo & Date					SRF	/23/00890-00	02 & 12-10-	2023				
Recei	ot Date				ļ	12-1	0-2023						
Calibra	ation Date					12-1	0-2023						
Calibra	ation Due					11-1	0-2024						
Custo	mer Name &	Addre	SS_										
GOVE	RNMENT F	RIMAF	RY HEALTH	CENTRE,				1					
V.S.K	OTTAI-6243	306,DIN	IDIGUL DIST	RICT.									
			Deta	ils of Dev	vice	Under Calibr	ation (DUC)		··			
Descr	scription : CENTRIFUGE				Make & Model			:	B.D.INSTRU	JMENTATION &	BDI-152		
Range	:	:		3500 RPM	Sr. No			:	NA				
Resolu	ution	:		1 RPM	Identification No			: N A					
DUC (Condition	:	Satisfactor	у	Location :				PRIMARY H	PRIMARY HEALTH CENTRE			
	Environmental Cor						nditions & Standard Operating Pro			cedure Details			
Environmental Details Temperatur				Temperature				nidity 52%Rh					
Calibration Procedure No SBS/CP/ML													
					Refere	nce (Standards D	etails		· - ·			
S.No	.No Description				Make/ SI No:		Certificate No			Validity			
1	Digital Tac	homete	er	·	LINE SE	IKI /	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	500	499.0	1.0	4.2
2	1500	1499.5	0.5	4.2
3	3000	2999.5	0.5	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)

E.ESWAR



Authorised Sig	inatory
Quality Manager) (C.SIVABALAN)	(Chief Executive)

SUNSHINE BIOMEDICAL SOLUTIONS



			CAL	IBRA	TION CE	RTII	FICATE	=		
CERTI	FICATE NO:	SBS/CL/23/14	643	· · · · ·			THERMAL		Page No:1 of 1	
Issue [Date			··············	13-10-2023			•		
SRF N	lo & Date				SRF/23/008	90-0003	& 12-10-202	3		
Receip	t Date				12-10-2023					
Calibra	ation Date				12-10-2023					
Calibra	ation Due				11-10-2024					
Custor	ner Name & Addr	ess	·····	•	•				- " <u>-</u> "	
GOVE	RNMENT PRIMA	ARY HEALTH CEN	ITRE,							
V.S.K	DTTAI-624306,D	INDIGUL DISTRIC	T.							
			<u> </u>	Details of D	evice Under C	alibratio	n (DUC)			
Descri	escription TEMPERATURE INDICATOR SENSOR OF (REFRIGERATO				Make & Mo	del	:	LG & NA		
Range	:	: 2-8	°C		Sr. No		:	GL-195CLLP/2013		
Resolu	ution	: 0.1	°C identific		Identification	n No	:	NA		
DUC Condition : Satisfactory		Location		Location		:	PRIMARY HEALTH	I CENTRE		
Environmental Co				nental Cond	Conditions & Calibration Procedure Details					
Environmental Details Temperature: 2		: 25.3°C	Re	lative Hu	midity	54% Rh	54% Rh			
Calibration Procedure No SBS/CP		SBS/CP/TH/	1/04 Calibra		libration of	on done at ONSITE				
	Refer				eference Standards Details					
S.No	S.No Description			Make/ SI N	lo:	Certificate N		No	Validity	
1 RTD Sensor with paperless Recorder			der	Tempsens & Tempsens TD09200218			TMS/22/62	01	10-11-2023	

S.No.	DEVICE UNDER CALIBRATION READINGS	STANDARD INSTRUMENTS READINGS	DEVIATION	EXPANDED UNCERTAINTY (±)
	∘ C	°C	•C	•c
1	2.0	1.8	0.2	0.62
2	4.0	3.7	0.3	0.62
3	8.0	7.7	0.3	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

E.ESWAR



Authorised Signatory

(Chief Executive) (C.SIVABALAN)



		CAL	_IBR/	ATION C	ERTI	FICATE			
Certificate No: SBS/CL/23/1464	4					<u> </u>			Page. No : 1 of 1
Customer Name & Address			-						
GOVERNMENT PRIMARY HE	ALTH CENT	rre,			SRF No.		SRF/23/0089	0-0004	
V.S.KOTTAI-624306,DINDIGUI	L DISTRICT.				SRF Date			12-10-2023	
					Date of R	eceipt	11-10-2023		
					Date of C	alibration		12-10-2023	
					Due Date for Calibration			11-10-2024	
					Issue Dat	e	13-10-2023		
Details of Unit Under Calibrat	ion								
Description	Micro Pipette				Make			MICROLUX	
Range	5-50μl				Model			NA	
Resolution	lμl				Material			PVC	
Serial Number	NA				Operating Range			10-50µl	
ID Number	NA				Condition of UUC			Good	
Cal. At	Mechanica	al Lab			Instrume	nt Location		LABORATORY	
Env	vironmental Condition					Calibrat	od Used		
Temperature (°C)	23.9	Humidity (%RH)		55	National / International Standard			ISO 8655-6:2002	
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)		21.6	Cal Procedure No			SBS/CP/ML/08	
Standard Used		<u>-l</u>						<u>. </u>	
SI. No. Description	ID.No.	. / SI. No.		Certificate No.	ate No. Make/Model T		Trac	raceability Valid till	

Electronic Weighing 15112918 TVCSPL22/12/2115-01 A&D & GH-252 National Standards	$\overline{}$						
- Desirate		Electronic Weighing Balance	15112918	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12

 -				Res	ult of Calibra	tion in µl	· -			Z Factor: 1.0031
Sl. No.	Nominal Value		Ol	oserved Read	lings		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1	10	9.94	9.97	9.94	9.96	9.93	0.05	0.05		
1	10	9.98	9.95	9.92	9.97	9.96	9.95	-0.05	0.02	0.47
2	50	49.85	49.86	49.87	49.82	49.83	49.85	-0.15	0.02	
2	30	49.87	49.85	49.82	49.89	49.87				0.47
-	100	99.94	99.97	99.96	99.95	99.98	99.95		2.22	
3	100	99.93	99.95	99.97	99.94	99.95		-0.05	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 comming Grades a specified in ISO 3696.

 Chennai

 Chennai

 Chennai

 Chennai

 Chennai

 Chennai

 Chennai

Calibrated By,

(Calibration Engineer) M.ADHIBAN

Authorised by: (divabala (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 @ sunshine biomedical.com, We bsite: www.sunshine biomedical.com.



			<u>CA</u>	LIBR/	ATION (CERTII	FICATE				
Certifica	te No: SBS/CL/23/14645									Page. No: 1 of 1	
Custome	er Name & Address										
GOVERN	VMENT PRIMARY HEA	ALTH CENTRE,						SRF/23/00890-0005			
V.S.KOT	TAI-624306,DINDIGUL	DISTRICT.				SRF Date	SRF Date				
						Date of R	eceipt		11-10-2023		
						Date of C	alibration		12-10-2023		
						Due Date	Due Date for Calibration				
						Issue Date			13-10-2023		
Details o	of Unit Under Calibratio	on							·		
Description		Micro Pipette				Make			THERMO SO	JENTIFIC	
Range		100-1000µ	l			Model			FINNPIPET	ΓΕ F3	
Resoluti	on	1µl				Material			PVC		
Serial N	umber	NA				Operating	Operating Range				
ID Num	ber	NA				Condition	Condition of UUC				
Cal. At		Mechanica	l Lab			Instrume	nt Location	LABORATORY			
	Env	ironmental	Condition				Calibration Meth			hod Used	
Tempera	nture (°C)	23.9	Humidity (%RH)		55	National	National / International Standard		ISO 8655-6:2002		
Atmospheric Pressure (mbar)		1006	Water Temperature (°C)		21,6	Cal Proce	Cal Procedure No		SBS/CP/ML/08		
Standard	i Used					- · ·					
SI. No.	Description	ID.No. / SI. No. Cer		Certificate No.		Make/Model	Traceability		Valid till		
1	Electronic Weighing	1511	12918	TVC	CSPL22/12/21	15-01	A&D & GH-252	National Standards		09-12-2023	

										Z Factor: 1.0031
				Res	ult of Calibra	tion 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	99.95	99.89	-0.11	0.04	0.47
		99.89	99.95	99.90	99.87	99.90				
2	500	499.90	499.95	499.90	499.90	499.95	499.90	-0.10	0.03	0.47
		499.89	499.88	499.85	499.85	499.90				

999.87

999.94

TVCSPL22/12/2115-01

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

999.89

999.91

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

999.88

999.90

- 3. The recalibration interval should be determined on the user requirement.
- 4. The results stated in this certificate relate only to the item calibrated.

15112918

- 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 OMEDIC coverage factor k=2.00.

7. Calibration Liquid Used: Distilled or Deionized wa

999.89

999.93

Calibrated By,

Balance

(Calibration Engineer) M.ADHIBAN

1000

999.91

999.95

A&D & GH-252

National Standards

0.03

09-12-2023

0.47

C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

Chennai 600 032