

				CALIB	RATI	<u> </u>	N CERTI	IFICA	<u>TE</u>			
CERT	FICATE N	O: SBS	S/CL/23/1490	8	Ī		М	EDICAL D	EVICE	S	Page No:1 of 1	
Issue I	Date				1	17-10-2023						
SRF N	lo & Date				s	SRF/23/00910-0001 & 16-10-2023						
Receip	t Date				11	6-10)-2023					
Calibra	Calibration Date						0-2023					
Calibra	Calibration Due						0-2024					
Custor	ner Name 8	Addre	ess									
GOVE	RNMENT	PRIMA	RY HEALTH	CENTRE,						-		
S.MU1	THUGANAF	PALLI-6	35110,KRISI	HNAGIRI DIS	TRICT.							
				Detail	s of Devi	ce l	Jnder Calibrat	ion (DUC)				
Descri	ption	:	CENTRIF	JGE	Make & Model				:	MICROSIL & NA		
Range	•	;		3500 RPM	Sr. No				:	149/385		
Resolu	ution	:		10 RPM	Ic	dent	ification No		:	NA		
DUC 0	Condition	:	Satisfactor	γ	L	oca	tion		:	LABORATORY		
			Enviro	onmental Co	nditions	& S1	andard Opera	ting Proc	dure (Details		
Enviro	nmental De	etails		Temperature	25.5°C		Relative Humic	dity		52%Rh		
Calibra	ation Proce	dure N	0	SBS/CP/ML/	04		Calibration dor	ne at		ONSITE		
		·			Referen	ce s	Standards Deta	ails		1	·	
S.No	Description	on			Make/ SI No:		:	Certific	ate No	· · · · · · · · · · · · · · · · · · ·	Validity	
1	Digital Tachometer				LINE SEIKI / 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	999.0	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)

K.SATHYAMOORTHY



Authorised Signatory

(Quality Manager) (Chief Executive)

(C.SIVABALAN)



			CAL	.IBRA1	<u> ION</u>	I CER	TIFICA	<u>TE</u>	
CERT	IFICATE NO: SB	S/CL/23/	14909	•	T	N	EDICAL DE	VICES	Page No:1 of 1
Issue	Date				17-10	0-2023	<u> </u>	•	
SRF I	No & Date			SRF/	23/00910-0	002 & 16-10	-2023		
Receipt Date						0-2023			
Calibr	ration Date				16-10)-2023			
Calibr	ration Due				15-10)-2024			
Custo	mer Name & Addr	ess_							
GOV	ERNMENT PRIMA	RY HEA	LTH CENTR	E,		· · · · · · · · · · · · · · · · · · ·		,	
S.MU	THUGANAPALLI-	635110,	KRISHNAGI	RI DISTRICT	•				
				Details of D	evice U	nder Calibra	ition (DUC)		
		ELECT	RICAL					-	
Descr	iption :	SAFET	Y(MICROSC	OPE)	Make	& Model	:	LABOMED & NA	
Range	:	MULTI			Sr. N	0	:	150580748	
Resol	ution :	MULTI			Ident	fication No	:	NA	
DUC (Condition :	SATIS	FACTORY		Locat	ion	:	LABORATORY	
			Enviror	mental Cond	ditions	& Calibration	n Procedure	Details	
Enviro	onmental Details		Temperature	:25.6°C		Relative Hu	midity	52% RH	
Calibr	ation Procedure No		SBS/CP/MD	/29	Calibration dor		done at	ONSITE	
				Refe	rence S	tandards De	tails		
S.No	Description	Description Make/ SI No					Certificate	No	Validity
1	Electrical Safety Ar	nalyser		Rigel Medic	cal & 44L-1059 M-230809-16-4			16-4	10-08-202

ELECTRICAL SAFETY

		_	
R	ESI	п	TS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	92	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	161	10.4
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500µAfor B,BF,CF	216	8.8
	-300µAldi B,Bi ,Ci	210	5.8

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

 Authorised Signatory

(Calibration Engineer)
K.SATHYAMOORTHY

Chennai OOL Chennai Ch

Technical Manager (C.SHANMUGARAJ)

Chief Executive



	•		CALIE	BRATIO	N CER	TIFICA	ATE	<u> </u>	
CERTIFICATE	NO: SB	S/CL/23/	14910		ı	MEDICAL [DEVICES	Page No:1 of 1	
Issue Date				17-1	0-2023				
SRF No & Date	е			SRF	/23/00910-0	003 & 16-1	0-2023		
Receipt Date				I	0-2023				
Calibration Da	te			16-1	0-2023				
Calibration Du	<u>e</u>			15-1	0-2024				
Customer Nam	e & Addre	95 <u>5</u>							
			LTH CENTRE,			·			
S.MUTHUGAN	IAPALLI-	<u>63</u> 5110,I	KRISHNAGIRI E	DISTRICT.					
			De	tails of Device I	Under Calibra	ation (DUC)			
Description	:	SEMI A	NUTO ANALYZEI	R Make	e & Model	1	ROBONIK & PRIET	TEST TOUCH	
Range		MULTI		Sr. N	lo	:	ATCD3480321RBK		
Resolution	:	MULTI		ideni	tification No	:	NA		
DUC Condition	:	SATIS	ACTORY	Loca	ition	:	LABORATORY		
·			Environme	ntal Conditions	& Calibration	n Procedur	e Details	····	
Environmental [Temperature:25	.6°C	Relative Hu	midity	52% RH	·	
Calibration Proc	edure No		SBS/CP/MD/20		Calibration	done at	ONSITE		
				Reference S	Standards De	tails	<u> </u>	·	
S.No Descripti	S.No Description Make/ SI No					Certificat	e No	Validity	
Electrical Safety Analyser Rigel Medic				gel Medical & 44	L-1059	M-230809	M-230809-16-4		

		ELECTRICAL SAFETY			
RESULTS					
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)		
1	Insulation Resisitance	Measured values in MΩ	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		

<u>REMARKS</u>

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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

 Authorised Signatory

(Calibration Engineer)
K.SATHYAMOORTHY





Chief Executive



			<u>UA</u>	LIDK	ATION	CERII	<u>FICATE</u>				
Certifica	te No: SBS/CL/23/14911								1	Page. No : 1 of 1	
Custome	r Name & Address										
						SRF No.			SRF/23/00910	-0004	
GOVERN	NMENT PRIMARY HEA	LTH CEN	ITRE,			SRF Date			16-10-2023		
.MUTH	UGANAPALLI-635110,	KRISHNA	GIRI DISTRI	CT.		Date of I	Receipt		15-10-2023		
						Date of C	Calibration		16-10-2023		
					Due Dat	e for Calibration		15-10-2024			
				_		Issue Da	Issue Date 17-10-2023				
Petails o	of Unit Under Calibration	on									
Descript	ion	MICRO I	PIPETTE			Make			THERMO SCIENTIFIC		
Range		100-1000	μl			Model			FINNPIPETT	INNPIPETTE F3	
lesoluti	on	1µl				Material			PVC	VC	
erial N	umber	RW12977	7	"		Operation	ig Range		100-1000µl		
D Numi	ber	NA	·			Conditio	n of UUC		Good	•	
al. At		Mechanic	cal Lab			Instrume	ent Location		LABORATORY		
	Env	ironmenta	al Condition	 			Calibra	tion Metho	od Used		
Tempera	iture (°C)	23.9	Humidity ((%RH)	55	National	/ International Stand	ard	ISO 8655-6:2002		
Atmospheric Pressure (mbar) 1006 Water				erature (°C)	21.6	Cal Proc	edure No		SBS/CP/ML/08		
Standard Used											
SI. No.	Description	ID.No	o. / Sl. No.		Certificate N	lo.	Make/Model	Trac	eability	Valid till	
1	Electronic Weighing Balance	15	112918	TVC	CSPL22/12/2	115-01	A&D & GH-252	Nationa	ıl Standards	09-12-2023	
	•						•		Z Factor	4.00440	

Z Factor: 1.00319

				Res	ult of Calibra	tion in µl					
Sl. No.	Nominal Value		Ot	served Read	lings	Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)		
1	99.85 99.87 99.85 99.84 99.95 99.89 99.95 99.90 99.87 99.90	99,85	99.87	99.85	99.84	99.95	00.90	011	0.04	0.47	
•		77.07	-0.11	0.04	0.47						
2	500	499.90	499.95	499.90	499.90	499.95	499.90	0.10	0.03	0.47	
2	300	499.89	499.88	499.85	499.85	499,90	499.90	-0.10	0.03		
3	1000	999.89	999.88	999.89	999.87	999.90	000.01	-0.09	0.03	0.47	
3	1000	999.93	999.90	999.91	999.94	999.95	999.91	-0.09	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
- 6.The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
- $7.\ Calibration\ Liquid\ Used:\ Distilled\ or\ Deionized\ water\ conforming\ Grade 3\ as\ specified\ in\ ISO\ 3696.$

Calibrated By,

(Calibration Engineer) MRAGUL



Authorised by:

Quality Manager Suef Executive)
C.SIVABALAN



			CA	LIBRA	TION	CERTII	FICATE				
Certificat	te No: SBS/CL/23/14912								Ī	Page, No : 1 of 1	
Custome	r Name & Address			·							
						SRF No.			SRF/23/00910	-0005	
GOVERN	NMENT PRIMARY HEA	LTH CENT	RE,			SRF Date			16-10-2023		
s.MUTH	UGANAPALLI-635110,I	KRISHNAC	GIRI DISTRI	CT.		Date of R	eceipt		15-10-2023	-	
Date of Calibration 16-10-2023											
Due Date for Calibration 15-10-2							15-10-2024				
	Issue Date								17-10-2023		
Details o	of Unit Under Calibratio	on									
Descripti	ion	Micro Pipe	ette			Make	ake THERMO SCIEN				
Range		20-200µl				Model			FINNPIPETT	E F3	
Resolutie	on	1μl			···	Material			PVC		
Serial N	umber	RW10075				Operating	g Range		20-200µ1		
ID Numl	ber	NA				Condition	n of UUC		Good	•	
Cal. At		Mechanica	l Lab		•	Instrume	nt Location		LABORATO	RY	
	Env	ironmental	Condition				Calibrat	ion Metho	od Used		
Tempera	ature (°C)	23.9	Humidity	(%RH)	55	National	/ International Stand	ard	ISO 8655-6;20	002	
Atmospheric Pressure (mbar) 1006 Water Temperature (°C) 21.6 Cal Procedure No SBS/CP/M						SBS/CP/ML/	08				
Standard	d Used		•						·		
SI. No.	Description	ID.No.	/ SI. No.		Certificate l	No.	Make/Model	Make/Model Traceability			
1	Electronic Weighing . Balance	1511	12918	TVC	CSPL22/12/2	115-01	A&D & GH-252	Nationa	National Standards		

				Res	ult of Calibra	tion in µl				Z Factor: 1.003
Sl. No.	Nominal Value		Ol	served Read	lings		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)
1	20	19.86	19.84	19.86	19.87	19.88	10.00	0.10	0.00	0.47
1	20	19.89	19.87	19.88	19.85	19.86	19.87	-0.13	0.02	
2	100	99.89	99.88	99.87	99.85	99.86	00.07	014	0.02	0.47
2	100	99.84	99.86	99.85	99.82	99.85	99.86	-0.14	0.02	
3	200	199.86	199.87	199.87	199.85	199.83	400.07			
	: ZUU						199.86	-0.14	0.01	0.47

199.86

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

199.87

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

199.85

- 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

Chennai

600 032

 $6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately \ 95\% \ for \ a$ coverage factor k=2.00.

7. Calibration Liquid Used: Distilled or Deionical Walk Op ning Grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer) M.RAGUL

199.87

Authorised by:

anager/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.