

				CAL	IBRAT	IΟN	CER	TIFI	CA	<u>TE</u>	
CER	TIFICATE N	IO: SE	S/CL/23/	14838			N	/EDIC	AL. DE	VICES	Page No:1 of
Issue	Date					16-10	-2023				
SRF	SRF No & Date					SRF/:	23/00897-00	001 &	16-10-	2023	
Rece	Receipt Date					16-10	-2023				
Calibration Date						16-10	-2023				
Calibration Due						15-10	-2024				
Çusto	mer Name	& Add	<u>'ess</u>							•	
GOV	ERNMENT	PRIM	ARY HEA	LTH CENTRI	<u> </u>					·	
NAV/	ALPATTU-6	20016	,TIRUCH	IIRAPALLI DI	STRICT				_		
					Details of De	vice U	nder Calibra	ation (i	DUC)	·	
Descr	ription	:	SEMI A	UTO ANALYZ	ER Make & Model			:	ROBONIK & PRIETE	ST TOUCH	
Range	е	:	MULTI		Sr. No				ATCD1141220RBK		
Resol	ution	:	MULTI			Identification No			:	NA	
DUC	Condition	:	SATIS	FACTORY		Locat	ion		•	LABORATORY	
				Environ	nental Condi	tions	& Calibration	n Proc	edure	Details	
Envir	onmental De	tails		Temperature:	25.6°C		Relative Hu	midity		52% RH	
Calibration Procedure No SBS/CP/MD/20			20	Calibration done at		one at ONSITE					
			·		Refere	ence S	tandards De	etails			
S.No	Descriptio	n			Make/ SI No	:		Certificate No			Validity
1	Electrical S	afety A	nalyser		Rigel Medica	& 441	Rigel Medical & 44L-1059		M-230809-16-4		

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 % (±)
	<500uAfor B.BF.CF	241	8.4

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) K. SATHYAMOORTHY





Chief Executive



-	<u>CALII</u>	BRATI	ON CER	TIFICA	TE		
CERTIFICATE NO:	SBS/CL/23/14839			MECHANIC	AL	Page No:1 of 1	
Issue Date		10	6-10-2023				
SRF No & Date		s	RF/23/00897-00	002 & 16-10-2	2023		
Receipt Date			6-10-2023				
Calibration Date		10	6-10-2023				
Calibration Due		1	5-10-2024				
Customer Name & Addres							
GOVERNMENT PRIMAR	Y HEALTH CENTRE,						
NAVALPATTU-620016 ,T	IRUCHIRAPALLI DISTE	RICT					
	Deta	ils of Devic	e Under Calib	ration (DUC)	· · · · · · · · · · · · · · · · · · ·		
Description	CENTRIFUGE	М	ake & Model	:	MICROSIL & MK-10)	
Range :	3500 RPM	Si	Sr. No :		78/735		
Resolution :	1 RPM	ld	Identification No : NA				
DUC Condition :	Satisfactory	Lo	ocation	<u>:</u>	LABORATORY		
	Environmental C	onditions &	Standard Ope	erating Proce	dure Details		
Environmental Details	Temperatur	e: 25.5°C	Relative Hu	midity	midity 52%Rh		
Calibration Procedure No SBS/CP/ML		/04	Calibration of	done at	ONSITE	- · · · · · · · · · · · · · · · · · · ·	
		Referenc	e Standards D	etails			
S.No Description		Make/ SI	No:	Certificate	Validity		
1 Digital Tachometer		LINE SEIK	(I / 175-0034V	JRPM-CCT!	09-06-2024		

CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY		
	RPM	RPM	RPM	%		
1	1000	998.9	1.1	4.2		
2	1500	1499.5	0.5	4.2		
3	3000	2999.5	0.5	4.2		

REMARKS

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- 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



Authorisea Sig	Inatory
(C.SIVABALAN)	(Chief Executive)



		-		CALIBR	ATIC	N CER	TIFIC	CATE	
CERT	FICATE N	O: SBS	I/CL/23/14840		T	ME	DICAL D	EVICES	Page No:1 of 1
Issue Date SRF No & Date Receipt Date Calibration Date Calibration Due Customer Name & Address					16-10-2023 SRF/23/00897-0003 & 16-10-2023 16-10-2023 16-10-2024				
GOVE	RNMENT	URBA	PRIMARY HEA	LI DISTRICT.	of Devic	ce Under Calib	oration (D	UC)	
Descri Range Resolu		: : : : : : : : : : : : : : : : : : : :	MICROSCOPE MULTI MULTI SATISFACTOR		Make Sr. No	& Model o fication No	:	XSZ:N107B & NA 009162 NA LABORATORY	
DUC (onaliion	•	3ATISI ACTOR	Environmental			ion Proce	dure Details	
	nmental De ation Proced		Temper SBS/CF	ature: 25.4°C /MD/14		Relative Humi Calibration do ce Standards	dity ne at	52% RH ONSITE	
	Danadatia			Make/ SI N		Ce Stantaarus	Certificat	te No	Validity
_	Description Electrical S		alyser		Rigel Medical & 44L-1059		TSC/22-23/7400-3		10-08-2023

ELECTRICAL SAFETY									
RESULT	S								
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)						
1	Insulation Resistance	Measured values in M Ω	Uncertainty in % (±)						
	>20ΜΩ	85	13.92						
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)						
-	<5000μAfor B,BF,CF	121	7.7						
3	Patient Leakage	Measured values in μA	Uncertainty in % (±)						
-	<100µAfor B,BF,<10µAfor CF	40	11.6						
4	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)						
- +	<500uAfor B RE CE	191	7.0						

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

Authorised Signatory





Technical Manager
(C.SHANMUGARAJ)

Chief Executive	
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			CAL	IBRA1	TION C	ERTIFI	CATE				
Certificate	No: SBS/CL/23/14841								1	Page. No : 1 of 1	
Customer N	Name & Address										
						SRF No.			SRF/23/00897	-0004	
GOVERNM	IENT PRIMARY HEA	LTH CENT	RE,			SRF Date	SRF Date				
NAVALPA	TTU-620016,TIRUCHIRAPALLI DISTRICT. Date of Receipt 13-10-2023										
						Date of C	Calibration		14-10-2023		
						Due Date	e for Calibration		13-10-2024		
						Issue Da	te		16-10-2023		
Details of 1	Unit Under Calibratio	on				•					
Description	n	Micro Pipette				Make	Make			THERMO SCIENTIFIC	
Range		10-100µl			Model	Model			FINNPIPETTE F3		
Resolution	olution 0.2µl Material		PVC								
Serial Nun	aber	NA				Operatin	Operating Range				
ID Numbe	T	NA				Conditio	Condition of UUC		Good		
Cal. At		Mechanica	l Lab			Instrume	ent Location		LABORATO	RY	
	E	invironmen	tal Condition				Calibrat	ion Meth	od Used		
Temperatu	ıre (°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	edure No		SBS/CP/ML/0	08	
Standard U	Jsed	·	 		<u> </u>	··· • ·			•		
SI. No.	Description	ID.1	No. / SI. No.		Certificate	No.	Make/Model	Tra	ceability	Valid till	
1	Electronic Weighing Balance	1	5112918	TV	CSPL22/12/2	2115-01	A&D & GH-252	Nation	al Standards	09-12-2023	
		•		•			•		Z Factor:	1.00319	

Z	Factor:		1.(10:	31	9
		•				•

				Result	of Calibratio	n in µl	· · · · · · · · · · · · · · · · · · ·			
Sl. No.	Nominal Value	Observed Readings						Systemati c Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.47	9.46	9.48	9,47	9.46	9.45	-0.55	0.02	0.47
1	10.0	9.42	9.43	9.43	9.44	9.45	9.40	-0.55	0.02	0.47
2	50.0	49.57	49.56	49.58	49.56	49.56	49.56	-0.44	0.01	0.47
4	30.0	49.54	49.56	49.57	49.56	49.54	49.36	-0.44	0.01	
3	100.0	98.92	98.94	98.93	98.94	98.93	98.91	-1.09	0.02	0.47
3	100.0	98.91	98.92	98.89	98.88	98.88	70.91	-1.09	0.02	U.47

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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.
- $5.\ Equipment\ used\ for\ Calibration\ were\ calibrated\ \&\ traceable\ to\ National\ \&\ International\ Standards$
- 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 English as specified in ISO 3696.

(Calibration Engineer) M.ADHIBAN

Authorised by:

Quality Manager/Chief Executive) C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

600 022



			<u>CAL</u>	<u>IBRA1</u>	<u> TION CE</u>	<u>RTIFI</u>	<u>CATE</u>			
Certificat	e No: SBS/CL/23/14842									Page. No: 1 of 1
Customer	r Name & Address									
						SRF No.			SRF/23/00897-0005	
GOVERN	MENT PRIMARY HEA	LTH CENT	RE,			SRF Date			14-10-2023	•
NAVALPATTU-620016,TIRUCHIRAPALLI DISTRICT.							eceipt		13-10-2023	
						Date of C	alibration		14-10-2023	
						Due Date	for Calibration		13-10-2024	
						Issue Dat	e		16-10-2023	
Details o	f Unit Under Calibratio	on								
Description Micro Pipette						Make			THERMO SCIENTIFIC	
Range		100-1000μ1	1			Model			FINNPIPETTE F3	
Resolutio	n	1µl				Material			PVC	
Serial Nu	mber	NA				Operating Range			100-1000µl	
ID Numb	er	NA		·		Condition of UUC			Good	
Cal. At		Mechanica	l Lab			Instrument Location			LABORATORY	
	E	invironmen	tal Condition			Calibration Method Used				
Temperat	ture (°C)	23.9	Humidity (%RH)	55	National / International Standard			ISO 8655-6:20	002
Atmosph	heric Pressure (mbar) 1006 Water Temperature (°C) 21.6		21.6	Cal Proce	dure No		SBS/CP/ML/0	08		
Standard	Used	•				_			•	· · · · · · · · · · · · · · · · · · ·
SI. No.	Description	ID.1	No. / SI. No.	Certificate No.		Make/Model		Traceability		Valid till
1	Electronic Weighing Balance	1	5112918	TVC	CSPL22/12/2115	5-01 A&D & GH-252 Nation		Nationa	al Standards	09-12-2023
				•		**			Z Factor.	1.00319

				Result	of Calibration	n in µl				
Sl. No.	Nominal Value	Observed Readings						Systemati c Error	Random Error	Measurement Uncertainty (±)
	100	100.51	100.52	100.53	100.52	100.51	100 50	0,50	0.02	0.47
1	100	100.49	100.48	100.49	100.49	100.48	100.50	0.50	0.02	0.47
2	500	500.40	500.42	500.43	500.44	500.46	500.43	0.43	0.00	0.47
2	500	500.45	500,44	500.43	500.42	500.41	500.43	0.43	0.02	0.47
3	1000	1001.24	1001.26	1001.23	1001.22	1001.22	1001.22	1.22	0.03	0.47
J	1000	1001.18	1001.17	1001.20	1001.24	1001.26		1,22	0.03	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.
- ${\bf 5.} \ Equipment \ used \ for \ Calibration \ were \ calibrated \ \& \ traceable \ to \ National \ \& \ International \ Standards$
- 6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a

Chennai

600 032

7. Calibration Liquid Used: Distilled or Deionized water Collision Liq

M. Adhiban (Calibration Engineer) M.ADHIBAN

de3 as specified in ISO 3696.

Authorised by:

Quality Manager/Chief Executive) C.SIVABALAN



			CAL	IBRA1	TION CE	RTIFI	CATE			
Certificat	te No: SBS/CL/23/14843				•					Page. No: 1 of 1
Custome	r Name & Address						<u>.</u>			
						SRF No.			SRF/23/00897	-0006
GOVERN	IMENT PRIMARY HEA	LTH CENT	TRE,			SRF Date			14-10-2023	
NAVALPATTU-620016,TIRUCHIRAPALLI DISTRICT.							eceipt		13-10-2023	· · · · · · · · · · · · · · · · · · ·
							alibration		14-10-2023	
				Due Date	for Calibration		13-10-2024			
					Issue Dat	e		16-10-2023		
Details o	f Unit Under Calibration	on				_				
Descripti	ion	Micro Pipe	ette			Make			MICROLUX	
Range		100-1000μ	1			Model			NA	
Resolutio	on	10µl				Material			PVC	
Serial Nu	ımber	NA				Operating Range			100-1000μ1	
D Numb	per	NA				Condition of UUC			Good	
Cal. At	, , , , , , , , , , , , , , , , , , ,	Mechanica	ıl Lab			Instrument Location			LABORATORY	
	E	nvironmer	ıtal Condition	· · - · - · · · · · · · · · · · · · · ·		Calibration Method Used				
Tempera:	ture (°C)	23.9	Humidity (%RH)	55	National	/ International Stand	ard	ISO 8655-6:20	002
Atmosph	ospheric Pressure (mbar) 1006 Water Temperature (°C) 21.6			21.6	Cal Proce	dure No		SBS/CP/ML/08		
Standard	Used					•				
SI. No.	Description	ID.	No. / SI. No.		Certificate No.	Make/Model		Tra	Traceability	
1	Electronic Weighing Balance	1	15112918	TV	CSPL22/12/2115	-01 A&D & GH-252 Nation		Nation	al Standards	09-12-2023
		•			***			<u></u>	Z Factor:	1.00319

				Result	of Calibratio	n in µl				
Sl. No.	Nominal Value	Observed Readings						Systemati c Error	Random Error	Measurement Uncertainty (±)
1	100	99.92	99.94	99.91	99.90	99.92	00.00	0.00	0.01	0.45
ı	100	99.94	99.93	99.92	99.91	99.92	99.92	-0.08	0.01	0.47
2	500	499.04	498.99	499.05	499.02	499.04	400.01	0.00	0.00	0.47
2	300	498.96	498.99	499.02	499.03	498.99	499.01	-0.99	0.03	
3	1000	998.99	998.89	998.90	998.91	998.91	998.93	1.05	0.00	0.45
3	1000	998.96	998.95	998.92	998.94	998.93		-1.07	0.03	0.47

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- 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 as specified in ISO 3696.

M. Adhiban (Calibration Engineer) M.ADHIBAN

OMEBIC Chennai 600 032

Authorised by:

er/Chief Executive)



			CAL	IBRA	TION CE	RTIFI	CATE			
Certifica	te No: SBS/CL/23/14844									Page. No: 1 of 1
Custome	r Name & Address					_				
		-				SRF No.			SRF/23/00897-0007	
GOVERN	IMENT PRIMARY HEA	ALTH CE	VTRE,			SRF Date			14-10-2023	
NAVALPATTU-620016,TIRUCHIRAPALLI DISTRICT.							leceipt		13-10-2023	
							Calibration		14-10-2023	
							e for Calibration		13-10-2024	
						Issue Dat	te		16-10-2023	
Details o	f Unit Under Calibrati	on								
Description Micro Pipette						Make			MICROLUX	
Range		5-50µ1				Model			NA	
Resoluti	on .	1μ1				Material			PVC	
Serial N	umber	NA	-			Operating Range			5-50µl	
D Num	ber	NA				Condition of UUC			Good	
Cal. At		Mechan	ical Lab			Instrument Location			LABORATORY	
	1	Environm	ental Condition		-	Calibration Method Used				
Гетрега	ture (°C)	23.9	Humidity (%RH))	55	National	National / International Standard		ISO 8655-6:2002	
Atmosph	mospheric Pressure (mbar) 1006 Water Temperature (°C)		(°C)	21.6	Cal Proce	Cal Procedure No		SBS/CP/ML/08		
Standard	l Used				····•					,
SI. No.	Description	II	D.No. / SI. No.	No. Certificate No		Make/Model		Tra	Traceability Va	
1	Electronic Weighing Balance		15112918	TV	CSPL22/12/211	5-01 A&D & GH-252 Nation		Nation	al Standards	09-12-2023
					-	-	<u> </u>		7. Factor	1 00210

				Result	of Calibratio	n in µl				
Sl. No.	Nominal Value		Obs	erved Reading	Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)		
1	10	9.87	9.86	9.87	9.87	9.88	0.07	0.12	0.01	0.47
	10	9.88	9.86	9.87	9.88	9.89	9.87	-0.13	0.01	0.47
2	30	29.76	29.77	29.78	29.79	29.76	20.70	0.22	0.01	0.47
2	30	29.77	29.78	29.79	29.78	29.78	29.78	-0.22	0.01	
3	50	49.88	49.87	49.88	49.87	49.88	49.87	0.12	0.01	0.47
3	30	49.87	49.86	49.86	49.87	49.88		-0.13	0.01	

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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.
- $5.\ Equipment\ used\ for\ Calibration\ were\ calibrated\ \&\ traceable\ to\ National\ \&\ International\ Standards$
- 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 as specified in ISO 3696.

Calibrated By, M. Adhiba o (Calibration Engineer) M.ADHIBAN

BIOMEDIC Chennai 600 032

Quality Menager/Chief Executive) CSIVABALAN

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.



	CALIBRA	ATIO	N CER	TIFIC	<u>ATE</u>	
CERTIFICATE NO: SBS/CL/23/14845		<u> </u>	MEC	DICAL DEV	ICES	Page No:1 of 1
Issue Date		16-10-2				
SRF No & Date		SRF/23	3/00897-0008 8	ኔ 16-10-2023	N .	
Receipt Date		16-10-2	2023			
Calibration Date		16-10-2	2023			
Calibration Due		15-10-2	2024			
Customer Name & Address						
GOVERNMENT URBAN PRIMARY HEA						
NAVALPATTU-620016 ,TIRUCHIRAPA	LLI DISTRICT.					
	Details	of Device	e Under Calib	ration (DUC)	
` `	SAFETY ELL COUNTER)	Make 8		:	SYSMEX & B5505 C1705	
Range : MULTI		Sr. No		•	NA	
Resolution : MULTI	11/		cation No		LABORATORY	
DUC Condition : SATISFACTOR	Renvironmental	Locatio		on Procedu		
E Trans			Relative Humic		157% RH	
Environmental Details Temperature: 25.6°C Calibration Procedure No. SBS/CP/MD/14			Calibration dor		ONSITE	
Calibration Procedure No SBS/CF			e Standards I		14:14:1-	
C No Description	Make/ SI N			Certificate N	lo	Validity
S.No Description 1 Electrical Safety Analyser			al & 44L-1059 TSC/22-23/7400-3			10-08-2023

		ELECTRICAL SAFETY	
RESULT	<u>s</u>		·
S.no	S.no SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resistance	Measured values in MΩ	Uncertainty in % (±)
	>20ΜΩ	85	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
<u> </u>	<5000µAfor B,BF,CF	126	7.7
3	Patient Leakage	Measured values in μA	Uncertainty in % (±)
	<100µAfor B,BF,<10µAfor CF	40	11.6
4	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500µAfor B,BF,CF	226	6.8

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

_ (0) > ___

Authorised Signatory

(Calibration Engineer) K.SATHYAMOORTHY



Technical Manager
(C.SHANMUGARAJ

\neg	Chief	Executive
	Clife	EXECUTIVE