

				CAL	<u>IBRA</u>	TIO.	N CER	TIFIC	<u>`A</u>	<u>TE</u>	
CERT	IFICATE N): SB	S/CL/23/	14625			М	EDICAL ()E\	/ICES	Page No:1 of 1
Issue	ssue Date						-2023				
SRF No & Date						SRF/	23/00885-00	01 & 13-1	0-2	023	
Recei	pt Date					13-10	-2023				
Calibra	ation Date					13-10	-2023				
Calibra	ation Due					12-10	-2024				
Custo	mer Name	& Add	iress								
GOVE	RNMENT F	RIMA	RY HEAI	TH CENTRE	<u>,</u>					··· -	
MANG	ALAKUDI-	32330	B,RAMAN	IATHAPURA	M DISTRICT						<u> </u>
•					Details of 0	Device	Under Calib	ration (DU	C)		
Descri	ption	:	SEMI A	UTO ANALYZ	ER.	Make	& Model	:		ALPHA & ALPHA CHEM	
Range	· }	:	MULTI		Sr. No			:		BCAA17062608	
Resolu		:	MULTI			Identification No : NA			NA		
DUC (Condition	:	SATISE	ACTORY		Location : LABORATORY				LABORATORY	
			·	Enviro	nmental Con	dition	s & Calibration	on Proced	ure	Details	
Enviro	nmental Det	ails		Temperature:	25.4°C		Relative Hur	nidity		54% RH	
Calibra	ation Proced	ure No		SBS/CP/MD/2	20		Calibration d	lone at		ONSITE	
					Refe	erence	Standards L)etails			
S.No	Description				Make/ SI No	:		Certifica	te 1	No	Validity
1	- 					Rigel Medical & 44L-10		M-230809-16-4		6-4	10-08-2024

ELECTRICAL SAFETY

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty In % (±)
	>20MΩ	100	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	156	7.8
3	Enclosure Leakage	Measured values in µA	Uncertainty In % (±)
	<500µAfor B,BF,CF	215	7.3

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.

(Calibration Engineer)
P.PRASANNA

Calibrated By





Chief Executive

Authorised Signatory



			CA	ALIBR	ATION	CERTI	FICATE				
Certificate	e No: SBS/CL/23/14626				_					Page. No : 1 of 1	
Customer	Name & Address										
						SRF No.			SRF/23/00885	-0002	
GOVERNI	MENT PRIMARY HEA	ALTH CENT	TRE,			SRF Date			13-10-2023		
MANGALAKUDI-623308,RAMANATHAPURAM DISTRICT.							eceipt		12-10-2023		
							alibration		13-10-2023		
					Due Date	for Calibration		12-10-2024			
					Issue Dat	e		14-10-2023			
Details of	Unit Under Calibration	on			·	•					
Descriptio	on	MICRO PI	PETTE			Make		THERMO SCIENTIFIC			
Range		100-1000μ	l			Model	Model			FINNPIPETTE F3	
Resolutio	n	1µl				Material	Material			_	
Serial Nu	mber	RW13645				Operating	g Range		100-1000μ1	·	
ID Numb	er	NA			_	Condition	n of UUC		Good		
Cal. At		Mechanical Lab				Instrume	nt Location	LABORATORY			
	Env	ironmental	Condition				Calibrati	on Metho	d Used		
Temperati	ure (°C)	23.9	Humidity	(%RH)	55	National	National / International Standard			ISO 8655-6:2002	
Atmosphe	eric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	Cal Procedure No		SBS/CP/ML/08		
Standard 1	Used	•			·			"	٠.		
SI. No.	Description	ID.No.	/ SI. No.	Ī	Certificate No.		Make/Model		eability	Valid till	
1	Electronic Weighing Balance	1511	12918	TVC	TVCSPL22/12/2115-01		A&D & GH-252	Nationa	ıl Standards	09-12-2023	
_									Z Factor:	1.00319	
	=-			Re	esult of Calib	ration in µl				1	

andom Error	Measurement Uncertainty (±)
0.02	0.47

Sl. No.	Nominal Value		Ol	oserved Read	lings	Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.94	99.96	99.97	99.95	99.90	99.96	-0.04	0.02	
	100	99.96	99.95	99.97	99.98	99.98				0.47
2	500	499.95	499.96	499.95	499.97	499.98	499.96	-0.04	0.01	
2	300	499.96	499.97	499.95	499.95	499.96				0.47
3	1000	999.95	999.96	999.97	999.96	999.98	999.96	201	2.24	
J	1000	999.95	999.96	999.97	999.97	999.97		-0.04	0.01	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.
- $5.\ Equipment\ used\ for\ Calibration\ were\ calibrated\ \&\ traceable\ to\ National\ \&\ International\ Standards$
- 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 to receiving Grade3 as specified in ISO 3696.

Chennai

600 032

Calibrated By, (Calibration Engineer)

M.RAGUL

(Quality Manager/Chief Executive)

C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087, $E-Mail: calibration@sunshinebiomedical.com, \ \bar{W}ebsite: www.sunshinebiomedical.com.$



			<u>C/</u>	<u>ALIBR.</u>	<u>ATION</u>	<u>I CERTI</u>	<u>FICATE</u>				
Certificat	te No: SBS/CL/23/14627									Page. No: 1 of 1	
Custome	r Name & Address										
						SRF No.	**	SRF/2	/00885	5 - 0003	
GOVERN	IMENT PRIMARY HEA	LTH CENT	RE,			SRF Date		13-10-	2023		
MANGALAKUDI-623308,RAMANATHAPURAM DISTRICT.							eceipt	12-10-	2023		
							alibration	13-10-	2023		
							for Calibration	12-10-	12-10-2024		
							e	14-10-	14-10-2023		
Details o	f Unit Under Calibratio	on				· ·			_		
Description MICRO PIPETTE						Make			THERMO SCIENTIFIC		
Range		10-100µl				Model		FINN	FINNPIPETTE F3		
Resolutio	on	0.2µ1				Material		PVC			
Serial Nu	ımber	RW10276				Operating	g Range	10-100	μl		
D Numb	oer	NA				Condition	n of UUC	Good			
Cal. At		Mechanical Lab				Instrume	nt Location	LABO	LABORATORY		
	Env	ironmental	Condition		_	<u> </u>	Calibrati	on Method Used		_	
Tempera	ture (°C)	23.7	Humidity (%RH)		52	National	National / International Standard		ISO 8655-6:2002		
Atmosph	eric Pressure (mbar)	1006	Water Temperature (°C)		21.6	Cal Proce	Cal Procedure No		SBS/CP/ML/08		
Standard	Used	•	•	· ·	*			4		-	
SI. No.	Description				Certificate No. CSPL22/12/2115-01		Make/Model	Traceability		Valid til	
1	Electronic Weighing Balance						A&D & GH-252	National Stand	ards	09-12-202	
								·	actor	1.00319	

	Result of Calibration in μl												
Sl. No.	Nominal Value		OI	bserved Read	lings		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)			
1	10.0	9.90	9.92	9.88	9.91	9.92	2.04	0.00	0.01	0.47			
1	10.0	9.91	9.92	9.93	9.92	9.90	9.91	-0.09	0.01	0.47			
2	50.0	49.78	49.76	49.74	49.72	49.74	49.74	-0.26	0.02		0.45		
2	50.0	49.76	49.75	49.73	49.72	49.71				0.47			
3	100.0	98.92	98.94	98.94	98.96	98.92	98.93	1.07	0.00				
3	100.0	98.91	98.93	98.94	98.92	98.91		-1.07	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 campa6. The indicated uncertainties are expanded uncertainty estimated for a corumcoverage factor k=2.00.
 7. Calibration Liquid Used: Distilled or Deionized water conforming craces as specified in ISO 3696.

 Calibrated By, Calibrated 6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a

M.RAGUL

Authorised by: (Quality Manager/Chief Executive) C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS