

				CAL	IBRA1	[0	N CER	ΓΙΓΙC	<u>A7</u>	<u>E</u>			
CERT	IFICATE N	O: SB	S/CL/23/	14990		T	М	DICAL	DEVI	CES	Page	No:1 of 1	
Issue Date							18-10-2023						
SRF No & Date						SRF/	23/00919-00	01 & 17-1	0-20	23 ,			
Receipt Date							0-2023						
Calibr	ation Date					17-10	0-2023						
Calibr	ation Due					16-10	D-2024						
Custo	<u>mer Name</u>	& Add	dress										
GOVE	RNMENT	PRIMA	RY HEA	LTH CENTR	E,								
THAN	DALAIPUT	HUR,T	RICHY E	ISTRICT.									
					Details of D	evice	Under Calibra	tion (DUC)				
Descri	ption	:	SEMI A	UTO ANALYZ	ŒR	Make	& Model	:	ROBONIK & PRIETEST TOUCH				
Range)	:	MULTI			Sr. No : ATCD1201220RBK							
Resolu	ution	:	MULTI			Identification No : NA				NA			
DUC C	Condition	:	SATISE	ACTORY		Location : LABORATORY							
				Enviror	mental Cond	ditions	& Calibration	Procedu	re De	etails			
Enviro	nmental Det	ails		Temperature:	25.6 ° C		Relative Hum	idity	52% RH				
Calibration Procedure No SBS/CP/MD/20					20	Calibration done at ONSITE							
					Refe	rence	Standards De	tails					
S.No	Description)	•		Make/ SI No	o:		Certificate No			-	Validity	
1	Electrical Sa	fety Ar	alyser		Rigel Medica	al & 44L-1059 M-230809-		809-16-4			10-08-2024		

ELECTRICAL SAFETY

₹F	SI	11	TS

\$.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)		
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)		
	>20ΜΩ	88	13.92		
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)		
	<5000µAfor B,BF,CF	168	7.6		
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)		
	<500µAfor B,BF,CF	235	7.2		

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





Chief Executive



			CAL	.IBRA	TI0	N CER	TIFICA	<u>TE</u>			
CERTIFICATE NO: SBS/CL/23/14991 MECHANICAL Page No:1											
Issue	Date			18	18-10-2023						
SRF N	lo & Date			s	RF/23/	00919-0002	& 17-10-2023	}			
Receip	ot Date			1.	7-10-20	23		•			
Calibra	ation Date			1	7-10-20)23					
Calibra	ation Due			10	6-1 <u>0-20</u>	24					
Custo	mer Name & A	ddress									
GOVE	RNMENT PRIM	IARY HE	ALTH CENT	RE,							
THAN	DALAIPUTHUR	TRICHY,	DISTRICT.								
				Details of I	Device	Under Calib	ration (DUC))			
Descri	ption :	CENTE	RIFUGE	M	lake &	Model	:	MICROSIL & NA			
Range	:	3500	RPM	s	r. No		;	79/385 MK-10			
Resol	ution :	1	RPM	lo	dentifica	ation No	:	NA			
DUC (Condition :	Satisfa	ctory	L	Location			LABORATORY			
		E:	nvironmenta	al Conditio	ons & S	tandard Op	erating Proc	edure Details			
Enviro	nmental Details		Temperatur	re: 25.3°C	Relative Humidity			55% Rh			
Calibration Procedure No SBS/CP/ML/04					Calibration done at O			ONSITE			
		-		Refe	erence	Standards I	Details				
S.No	Description			Make/ SI I	/ SI No:		Certificate N	lo ¹	Validity		
1	Digital Tachom	eter		LINE SEI	KI / 175	i-0034V	JRPM-CCT	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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- $\label{eq:continuous} \textbf{2.The user should determine the suitability of the instrument for its intended use.}$
- 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

CST

(Calibration Engineer)

K.SATHYAMOORTHY



(Quality Manager)

(C.SIVABALAN)

Authorised Signatory

(Chief Executive)

SUNSHINE BIOMEDICAL SOLUTIONS



GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR,TRICHY DISTRICT. Date of Receipt Date of Calibration Due Date for Calibration Issue Date Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100µl Model Resolution 0.2µl Material Operating Range ID Number NA Condition of UUC	Page. No : 1 of 1 SRF/23/00919-0003 17-10-2023 16-10-2023 17-10-2023				
GOVERNMENT PRIMARY HEALTH CENTRE, GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR,TRICHY DISTRICT. Date of Receipt Date of Calibration Due Date for Calibration Issue Date Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100µl Model Resolution 0.2µl Material Operating Range ID Number NA Condition of UUC	17-10-2023 16-10-2023				
GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR, TRICHY DISTRICT. Date of Receipt Date of Calibration Due Date for Calibration Issue Date Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100µl Model Resolution 0.2µl Material Operating Range ID Number NA Condition of UUC	17-10-2023 16-10-2023				
THANDALAIPUTHUR, TRICHY DISTRICT. Date of Receipt Date of Calibration Due Date for Calibration Issue Date Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100µl Model Resolution 0.2µl Material Serial Number NA Operating Range ID Number NA Condition of UUC	16-10-2023				
Date of Calibration	ļ				
Due Date for Calibration Issue Date Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100µl Model Resolution 0.2µl Material Gerial Number NA Operating Range ID Number NA Condition of UUC	17-10-2023				
Issue Date Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100μ1 Model Resolution 0.2μ1 Material Serial Number NA Operating Range ID Number NA Condition of UUC					
Details of Unit Under Calibration Description MICRO PIPETTE Make Range 10-100µl Model Resolution 0.2µl Material Serial Number NA Operating Range ID Number NA Condition of UUC	16-10-2024				
Description MICRO PIPETTE Make Range 10-100μl Model Resolution 0.2μl Material Serial Number NA Operating Range ID Number NA Condition of UUC	18-10-2023				
Range 10-100µl Model Resolution 0.2µl Material Serial Number NA Operating Range ID Number NA Condition of UUC					
Resolution 0.2µl Material Serial Number NA Operating Range ID Number NA Condition of UUC	THERMO SCIENTIFIC				
Serial Number NA Operating Range ID Number NA Condition of UUC	FINNPIPETTE F3				
ID Number NA Condition of UUC	PVC				
	10-100µl				
Cal. At Mechanical Lab Instrument Location	Good				
	LABORATORY				
Environmental Condition Calibration Method	Calibration Method Used				
	T				
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					
SI. No. Description ID.No. / SI. No. Certificate No. Make/Model Trace	ceability Valid till				
1 Electronic Weighing 15112918 TVCSPL22/12/2115-01 A&D & GH-252 National Balance	al Standards 09-12-202				

Z Factor: 1.00319

	Result of Calibration in μl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
	10.0	9.91	9.92	9.90	9.92	9.93	9,92	-0.08	0.01	0.47	
1	10.0	9.92	9.93	9.92	9.93	9.91	9.92	70.06	0.01	0.47	
2	50.0	49.95	49.96	49.95	49.95	49.96	49.96	-0.04	0.01	0.47	
2	50.0	49.96	49.97	49.98	49.97	49.96			0.01	0.47	
2	100.0	\$9.89	99.88	99.89	99.87	99.88	99.87	-0.13	0.01	0.47	
3	100.0	99.88	99.87	99.85	99.86	99.87			0.01	0.47	

Remarks

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- $2. \\ The user should determine the suitability of the instrument for its intended use.$
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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. ONE BURNING

Chennai 600 032

7. Calibration Liquid Used: Distilled or Deionia

g Grade3 as specified in ISO 3696.

Calibrated By,

Authorised 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, Website: www.sunshinebiomedical.com.



· <u></u>		C/	LIBRA	ATION	CERTI	FICATE		·		
te No: SBS/CL/23/14993			-					1	Page. No: 1 of 1	
r Name & Address		 ,								
	SRF No.			SRF/23/00919	-0004					
IMENT PRIMARY HEA	SRF Date			17-10-2023						
ALAIPUTHUR,TRICHY	DISTRICT.				Date of R	eceipt		16-10-2023		
						alibration		17-10-2023		
	Due Date	for Calibration		16-10-2024						
		Issue Date	e	18-10-2023						
f Unit Under Calibratio	on						•			
Description MICRO PIPETTE					Make	Make			THERMO SCIENTIFIC	
-				Model	Model			FINNPIPETTE F3		
on	1µl				Material		PVC			
ımber	NA		 		Operating	g Range		100-1000μ1		
per	NA				Condition	n of UUC	Good			
	l Lab			Instrume	nt Location	LABORATORY				
Env	ironmental	Condition			Calibration Method Used					
ture (°C)	23.9	Humidity (%RH)		55	National a	National / International Standar		ternational Standard ISO 8655-6:20		
Atmospheric Pressure (mbar)		Water Temperature (°C)		21.6	Cal Proce	Cal Procedure No		SBS/CP/ML/08		
l Used	1									
Description	ID.No.	/ SI. No.		Certificate N	lo.	Make/Model	Trac	ceability	Valid till	
Electronic Weighing Balance	1511	12918	TVC	CSPL22/12/21	115-01			al Standards	09-12-2023	
	MENT PRIMARY HEA ALAIPUTHUR, TRICHY f Unit Under Calibratio on umber per Envi	MENT PRIMARY HEALTH CENT ALAIPUTHUR, TRICHY DISTRICT. If Unit Under Calibration on MICRO PI 100-1000µl on 1µl umber NA Mechanica Environmental ture (°C) 23.9 In the Company of the Com	e No: SBS/CL/23/14993 Name & Address MENT PRIMARY HEALTH CENTRE, ALAIPUTHUR, TRICHY DISTRICT. f Unit Under Calibration on MICRO PIPETTE 100-1000µl on 1µl umber NA Mechanical Lab Environmental Condition ture (°C) 23.9 Humidity eric Pressure (mbar) 1006 Water Temp Used Description ID.No. / SI. No. Electronic Weighing 15112918	e No: SBS/CL/23/14993 Name & Address MENT PRIMARY HEALTH CENTRE, ALAIPUTHUR, TRICHY DISTRICT. f Unit Under Calibration on MICRO PIPETTE 100-1000µl on 1µl umber NA Mechanical Lab Environmental Condition ture (°C) 23.9 Humidity (%RH) meric Pressure (mbar) 1006 Water Temperature (°C) Used Description ID.No. / SI. No. Electronic Weighing 15112918 TV6	e No: SBS/CL/23/14993 Name & Address MENT PRIMARY HEALTH CENTRE, ALAIPUTHUR, TRICHY DISTRICT. f Unit Under Calibration on MICRO PIPETTE 100-1000µl on 1µl umber NA Mechanical Lab Environmental Condition ture (°C) 23.9 Humidity (%RH) 55 meric Pressure (mbar) 1006 Water Temperature (°C) 21.6 Used Description ID.No. / SI. No. Certificate No. Electronic Weighing 15112918 TVCSPI.22/12/21	Name & Address SRF No.	MENT PRIMARY HEALTH CENTRE, MALAIPUTHUR, TRICHY DISTRICT. MENT PRIMARY HEALTH CENTRE, MALAIPUTHUR, TRICHY DISTRICT. Date of Receipt Date of Calibration Due Date for Calibration Issue Date ### Make 100-1000µl	e No: SBS/CL/23/14993 Part Name & Address MENT PRIMARY HEALTH CENTRE, MAIPUTHUR, TRICHY DISTRICT. MENT PRIMARY HEALTH CENTRE, SRF Date Date of Receipt Date of Calibration Due Date for Calibration Issue Date Funit Under Calibration MICRO PIPETTE Make 100-1000µl Material Mat	No. SBS/CL/23/14993 Name & Address SRF No. SRF/23/00919	

Z Factor: 1.00319

	Result of Calibration in µl										
Sl. No.	Nominal Value		Ol	served Read	lings	Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)		
	100	99.85	99.86	99.87	99.85	99.84	99.84	-0.16	0.02	0.47	
1	100	99.83	99.82	99.85	99.81	99.82				0.47	
2	500	499.88	499.87	499.86	499.85	499.84	499.85	-0.15	0.02	0.47	
	300	499.85	499.87	499.85	499.84	499.83				0.47	
3	1000	999.95	999.97	999.95	999.94	999.93	999.94	-0.06	0.02	0.47	
	1000	999.92	999.91	999.93	999.94	999.95		-0.06	0.02	0.47	

Remarks

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- 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.

600 032

7. Calibration Liquid Used: Distilled or Deionized water controlling and as specified in ISO 36

Calibrated By,

Authorised 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, Website: www.sunshinebiomedical.com.