

			CAL	IBRAT	TON CE	RTIFI	<u>CATE</u>			
Certifica	te No: SBS/CL/23/13023								1	Page. No : 1 of 1
Custome	r Name & Address									
						SRF No.			SRF/23/00655-0001	
GOVERNMENT PRIMARY HEALTH CENTRE,						SRF Date			06-10-2023	
DEVIPA'	ITINAM,RAMANATH.	APURAM I	DISTRICT.			Date of R	eceipt	,	05-10-2023	
						Date of C	alibration		06-10-2023	
Ī							for Calibration		05-10-2024	
							e		07-10-2023	
Details o	of Unit Under Calibratio	on								
Descript	Description Micro Pipette						Make			IENTIFIC
Range	ange 100-1000µl						Model			E F3
Resoluti	on	1µl				Material			PVC	
Serial N	umber	RW13746				Operating Range			100-1000μl	
ID Num	ber	NA				Condition of UUC			Good	
Cal. At		Mechanica	ıl Lab			Instrument Location			LABORATORY	
	I	Environmer	ntal Condition			Calibration Method Used				
Tempera	iture (°C)	23.9	Humidity (%RH))	55	National / International Standard			ISO 8655-6:2002	
Atmospl	neric Pressure (mbar)	1006	Water Temperature	(°C)	21.6	Cal Procedure No			SBS/CP/ML/0	08
Standard	d Used									
SI. No.	Description	ID.	No. / SI. No.		Certificate No.	Make/Model		Tra	Traceability Val	
1	Electronic Weighing Balance	1	15112918	TVCSPL22/12/211			A&D & GH-252	Nation	al Standards	09-12-2023
	•								Z Factor:	1.00319

				Result	of Calibratio	n in µl				
Sl. No.	Nominal Value		Obs	erved Reading	Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)		
1	100	99.92	99.91	99.92	99.91	99.90	99.91	-0.09	0.01	0.47
1	100	99.92	99.91	99.91	99.92	99.92	99.91	0.07	0.01	5.17
2	500	499.67	499.68	499.67	499.68	499.67	499.68	-0.32	0.01	0.47
2	500	499.68	499.67	499.68	499.68	499.67		-0.32	0.01	
2	1000	999.66	999.65	999.64	999.63	999.62	999.63	-0.37	0.02	0.47
3		999.65	999.64	999.62	999.62	999.61			0.02	

- $1. This\ Calibration\ certificate\ shall\ not\ be\ reproduced\ except\ in\ full,\ without\ written\ approval\ of\ the\ laboratory.$
- $2. \\ The user should determine the suitability of the instrument for its intended use.$
- 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.

600 032

7. Calibration Liquid Used: Distilled or Deionized water certaining Grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer) M.RAGUL

c_{hennai}

Authorised by:

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.



			CAL	IBRAT	ION CE	RTIFI	CATE			
Certificate	e No: SBS/CL/23/13024								I	age. No : 1 of 1
Customer	Name & Address					,				
						SRF No.			SRF/23/00655-0002	
GOVERNMENT PRIMARY HEALTH CENTRE,						SRF Date			06-10-2023	
DEVIPAT	TINAM,RAMANATHA	APURAM D	ISTRICT.			Date of R	eceipt		05-10-2023	
						Date of C	alibration		06-10-2023	
						Due Date	for Calibration		05-10-2024	
						Issue Dat	e		07-10-2023	
Details of	Unit Under Calibration	on								
Description Micro Pipette						Make			THERMO SCIENTIFIC	
Range	ige 10-100μl					Model			FINNPIPETTE F3	
Resolutio	n	0.2μ1				Material			PVC	
Serial Nu	mber	RW03382				Operating Range			10-100μl	
D Numb	er	NA				Condition of UUC			Good	
Cal. At		Mechanica	l Lab			Instrument Location			LABORATORY	
	E	invironmen	tal Condition				Calibrat	ion Meth	od Used	
Temperat	ture (°C)	23.7	Humidity (%RH))	53	National / International Standard			ISO 8655-6:2002	
Atmosph	eric Pressure (mbar)	1006	Water Temperature	(°C)	21.6	Cal Proce	edure No		SBS/CP/ML/0	8
Standard	Used									
SI. No.	Description	ID.N	No. / SI. No.		Certificate No.		Make/Model	Tra	ceability	Valid till
1	Electronic Weighing Balance	1	5112918	TVCSPL22/12/211			A&D & GH-252	Nation	al Standards	09-12-2023
		•							Z Factor:	1.00319

				Result	of Calibration	n in µl				
Sl. No.	Nominal Value		Obs	erved Reading	Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)		
1	10.0	9.87	9.86	9.87	9.86	9.87	9.86	-0.14	0.01	0.47
1	10.0	9.86	9.82	9.86	9.87	9.86	7.00	J	3.01	21.01
2	50.0	49.46	49.47	49.48	49.47	49.46	49.48	-0.52	0.01	0.47
2	50.0	49.47	49.48	49.48	49.49	49.49		-0.52	0.01	
3	100.0	99.37	99.38	99.39	99.31	99.40	99.40	-0.60	0.04	0.47
	100.0	99.42	99.42	99.44	99.44	99.45		-0.00	0.04	

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 . coverage factor k=2.00 .

 7. Calibration Liquid Used: Distilled or Deionized water conforming Crade3 as specified in ISO 3696.

Chennai 600 032

Calibrated By,

(Calibration Engineer) M.RAGUL

Authorised by:

(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.



			CAL	IBRA 7	TION CE	RTIF	CATE			
Certificate N	No: SBS/CL/23/1302	5								Page. No: 1 of 1
Customer N	ame & Address									
				- 12000 9 200 1200		SRF No.			SRF/23/0065	5-0003
GOVERNMENT PRIMARY HEALTH CENTRE,						SRF Date	9		06-10-2023	
DEVIPATTI	NAM,RAMANATH	APURAM	DISTRICT.			Date of F	Receipt		05-10-2023	
						Date of C	Calibration		06-10-2023	
						Due Date	e for Calibration		05-10-2024	
						Issue Date			07-10-2023	
Details of U	nit Under Calibrati	on								
Description	on Micro Pipette					Make			THERMO SCIENTIFIC	
Range		10-100µl				Model			FINNPIPETTE F3	
Resolution		0.2μ1				Material			PVC	
Serial Numb	per	RW10399				Operating Range			10-100μl	
ID Number		NA				Condition of UUC			Good	
Cal. At		Mechanica	al Lab			Instrument Location			LABORATORY	
	I	Environmer	ntal Condition		×	Calibration Method Used				
Temperature	e (°C)	23.5	Humidity (%RH)		51	National / International Standard		ard	ISO 8655-6:2002	
Atmospheric	espheric Pressure (mbar) 1006 Water Temperature (°C) 21.6			21.6	Cal Procedure No			SBS/CP/ML/08		
Standard Us	ed								***************************************	
SI. No.	Description	ID.	No. / SI. No.		Certificate No.		Make/Model	Tra	ceability	Valid till
1 El	lectronic Weighing	1	15112918	TVC	CSPL22/12/2115	-01	A&D & GH-252	Nation	al Standards	09-12-2023

Z Factor: 1.00319

National Standards

09-12-2023

550				Result	of Calibratio	n in µl				
Sl. No.	Nominal Value		Obs	erved Reading	Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)		
1	10.0	9.94	9.93	9.94	9.92	9.94	9.93	-0.07	0.01	0.47
1	10.0	9.92	9.92	9.94	9.94	9.94		-0.07	0.01	
2	50.0	49.87	49.88	49.87	49.88	49.87	49.87	0.12	0.01	0.47
	50.0	49.88	49.86	49.87	49.86	49.87		-0.13	0.01	
3	100.0	99.86	99.87		00.07	0.12	0.01			
3	100,0	99.87	99.86	99.86	99.88	99.86	99.87	-0.13	0.01	0.47

TVCSPL22/12/2115-01

A&D & GH-252

- 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.

15112918

- 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.

Chennai

water Confidenting Grade3 as specified in ISO 3696. 7. Calibration Liquid Used: Distilled or Deionized

Calibrated By,

Balance

(Calibration Engineer) M.RAGUL

Authorised by:

(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.



	CAL	BRA	TION	CERT	IFICATE		
CERTIFICATE NO:	SBS/CL/23/13026			M	ECHANICAL	Р	age No:1 of 1
Issue Date			07-10-202	23			
SRF No & Date			SRF/23/00	0655-0004	& 06-10-2023		
Receipt Date			06-10-202	23			
Calibration Date			06-10-202	23			
Calibration Due			05-10-202	24			
Customer Name & Addr	ess						
GOVERNMENT PRIMAR	Y HEALTH CENTRE,						
DEVIPATTINAM,RAMAN	ATHAPURAM DISTRIC	T.					
	De	tails of D	evice Und	er Calibrat	ion (DUC)		y
Description :	CENTRIFUGE		Make & M	lodel	:	REMI & C-852	
Range :	3500 RPM		Sr. No		:	ZIFN25482	
Resolution :	1 RPM		Identificat	ion No	:	NA	
DUC Condition :	Satisfactory		Location		:	LABORATORY	
	Environmental	Condition	ns & Stand	dard Opera	ting Procedu	re Details	
Environmental Details	Temperatu	re: 25.4°	C F	Relative Hui	midity	54% Rh	
Calibration Procedure No	SBS/CP/M	L/04	(Calibration of	done at	ONSITE	
		Refe	rence Star	dards Det	ails	•	
S.No Description		Make/ S	SI No:		Certificate N	Validity	
1 Digital Tachomete	г	LINE SI	LINE SEIKI / 175-0034V		JRPM-CCTR	09-06-2024	

CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.6	1.4	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	4.2

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
(Calibration Engineer)
E.ESWAR



Authorise	ed Signatory
Quality Manager (C.SIVABALAN)	Chief Executi

SUNSHINE BIOMEDICAL SOLUTIONS