

			(	CALIB	RATI	ON CL	ERTIFICATE			
Certifica	ate No: SBS/CL/23/04205									Page. No:1 of1
Custome	er Name & Address									
						SRF No.		SRI	F/23/00152-0022	
GOVERN	MENT PRIMARY HEALTH	H CENTER,				SRF Date		10-0	04-2023	
NARASI	PURAM, COIMBATOR	E-641109.				Date of R	Receipt	10-0	04-2023	
						Date of C	Calibration	10-0	04-2023	
						Due Date	for Calibration	09-0	04-2024	
						Issue Dat	te	10-0	04-2023	
Details o	of Unit Under Calibratio	on								
Descript	ion	Micro Pip	ette			Make		ERE	BA MANNHEIN	Л
Range		5-50µl				Model				
Resoluti	on	0.5μl				Material		PVC		
Serial N	umber	OC494673				Operating	g Range			
ID Num	ber					Condition	n of UUC	Goo	d	
Cal. At		Mechanica	al Lab			Instrume	nt Location	LAF	BORATORY	
	Enviro	onmental C	ondition				Calib	ration Method	Used	
Tempera	nture (°C)	23.2	Humidity	(%RH)	52	National	/ International Standard	ISO	8655-6:2002	
Atmosph	neric Pressure (mbar)	1006	Water Temp	perature (°C)	21.6	Cal Proce	dure No	SBS	/CP/ML/08	
Standard	Used			0/						
SI. No.	Description	ID.No.	/SI. No.	Ce	rtificate l	Vo.	Make/Model	Trace	eability	Valid till
1	Electronic Semi Micro Balance	151	12918	TVCSI	PL22/12/2	115-01	A&D & GH-252	National	Standards	09-12-2023
									Z Factor: 1	.00319

	L	r	a	C	to	r:	1	.00	13	L
-	_	-	-	-	_	_	-	-	_	-

				R	esult of Ca	libration i	n µl				
Sl. No.	Nominal Value		Obse	erved Readi	ngs		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
	40	9.92	9.93	9.96	9.98	9.97	9.95	-0.05	0.02	0.47	
1	10	9.95	9.96	9.92	9.96	9.99	7,70	-0.05			
	20	29.83	29.85	29.86	29.85	29.82	29.83	-0.17	0.02	0.47	
2	30	29.81	29.82	29.84	29.83	29.82	29.03	-0.17	0.02	0.17	
	F0	49.72	49.74	49.76	49.77	49.78	49.75	-0.25	0.02	0.47	
3	50	49.76	49.71	49.73	49.74	49.75	49.75	-0.25	0.02	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 Grade3 as specified in ISO 3696.

Chennai

Calibrated By, Yoya (Calibration Engineer) R.YAZINIYAN

Authorised by:

(Quality Manager/Chief Executive)



Land I			(	ALIB	RAT	ION C	<u>ERTIFICATE</u>			
Certifica	ate No: SBS/CL/23/04202									Page. No:1 of 1
Custom	er Name & Address									
						SRF No.			SRF/23/00152-0019	
GOVERN	MENT PRIMARY HEALTH	H CENTER,				SRF Dat	e		10-04-2023	
NARAS	IPURAM, COIMBATOR	E-641109.				Date of 1	Receipt		10-04-2023	
						Date of (	Calibration		10-04-2023	
						Due Dat	e for Calibration		09-04-2024	
						Issue Da	te		10-04-2023	
Details o	of Unit Under Calibratio	n								
Descript	tion	Micro Pi	pette			Make			THERMO SCIENT	IFIC
Range		10-100µl				Model			FINNPIPETTE F3	
Resoluti	on	0.2μ1				Material			PVC	
Serial N		RW01634	1			Operatin	g Range			
ID Num	ber					Conditio	n of UUC		Good	
Cal. At		Mechani	cal Lab			Instrume	ent Location		LABORATORY	
	Enviro	nmental (	Condition	-			Calib	ration Me	thod Used	
Гетрега	ature (°C)	23.2	Humidity (	%RH)	52	National	/ International Standard		ISO 8655-6:2002	
Atmosph	neric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	edure No		SBS/CP/ML/08	
Standard	l Used			-		1	1			
SI. No.	Description	ID.No	o. / SI. No.	Ce	ertificate	No.	Make/Model		Γraceability	Valid till
1	Electronic Semi Micro Balance	15	112918	TVCS	PL22/12/	/2115-01	A&D & GH-252		onal Standards	09-12-2023
									Z Factor: 1	00319
				D	acult of	Calibration	1			

				R	esult of Ca	libration i	in µl			
Sl. No.	Nominal Value		Obse	erved Readi	ngs		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.92	9.94	9.96	9.95	9.94				
	10.0	9.94	9.95	9.97	9.95	9.98	9.95	-0.05	0.02	0.47
2	50.0	49.85	49.87	49.88	49.87	49.89	10.00			
	50.0	49.86	49.85	49.89	49.85	49.86	49.87	-0.13	0.02	0.47
3	100.0	99.74	99.76	99.75	99.75	99.76	00 24			
	100.0	99.76	99.78	99.77	99.78	99.79	99.76	-0.24	0.02	0.47

### 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. 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,

(Calibration Engineer) R.YAZINIYAN

Authorised by: (Quality Manager/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.





			C	ALIBI	RATI	ON C	ERTIFICATE			
Certificat	te No: SBS/CL/23/04203									Page. No:1 of 1
Custome	r Name & Address									
						SRF No.			SRF/23/00152-0020	
GOVERNI	MENT PRIMARY HEALTH	I CENTER,				SRF Date			10-04-2023	
						Date of F	leceipt		10-04-2023	
						Date of C	Calibration		10-04-2023	
						Due Date	e for Calibration		09-04-2024	
						Issue Da	te		10-04-2023	
Details o	f Unit Under Calibratio	n								
Descripti	ion	Micro Pipet	tte			Make			THERMO SCIENTI	FIC
Range		100-1000µl				Model			FINNPIPETTE F3	
Resolutio	esolution 1µl								PVC	
Serial Nu	umber	RW02623				Operatin	g Range			
ID Numl	ber					Condition	n of UUC		Good	
Cal. At		Mechanical	Lab			Instrume	nt Location		LABORATORY	
	Enviro	onmental Co	ndition				Calib	ration Me	thod Used	
Tempera	ture (°C)	23.2	Humidity (	%RH)	52	National	/ International Standard		ISO 8655-6:2002	
Atmosph	neric Pressure (mbar)	1006	Water Tempe	erature (°C)	21.6	Cal Proce	dure No		SBS/CP/ML/08	
Standard	Used		0	1			/			
SI. No.	Description	ID.No.	SI. No.	Ce	rtificate N	No.	Make/Model		Γraceability	Valid till
1	Electronic Semi Micro Balance	1511:	2918	TVCSI	PL22/12/21	115-01	A&D & GH-252	Nat	ional Standards	09-12-2023

Z Factor: 1.00319

				R	esult of Ca	libration i	n µl				
Sl. No.	Nominal Value		Obse	erved Readin	ngs		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
	100	99.92	99.94	99.95	99.94	99.93	99.95	-0.05	0.02	0.47	
1	100	99.94	99.96	99.94	99.97	99.98	99.93	-0.05	0.02	0.17	
2	500	499.84	499.86	499.88	499.86	499.87	499.87	-0.13	0.02	0.47	
2	500	499.86	499.87	499.88	499.89	499.89	499,07	-0.13	0.02	0.47	
3	1000	999.72	999.74	999.76	999.75	999.74	999.76	-0.24	0.02	0.47	
3	1000	999.76	999.78	999.77	999.76	999.79	777.70	-0.24	0.02	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.

Calibrated By,

(Calibration Engineer) R.YAZINIYAN

600 032

Authorised by:

(Quality Manager/Chief Executive)

D.VETRI SELVI

## **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.





			(	CALIBI	RATI	ON CL	ERTIFICATE			
Certifical	te No: SBS/CL/23/04204									Page. No:1 of 1
Custome	r Name & Address									
						SRF No.			SRF/23/00152-0021	
GOVERN!	MENT PRIMARY HEALTH	I CENTER,				SRF Date			10-04-2023	
						Date of R	eceipt		10-04-2023	
							alibration		10-04-2023	
						Due Date	for Calibration		09-04-2024	
						Issue Dat	e		10-04-2023	
Details o	of Unit Under Calibratio	n								
Descripti	ion	Micro Pipet	te			Make			ERBA MANNHEIN	1
Range		100-1000µl				Model				
Resolutio	Resolution 5µl								PVC	
Serial Nu	umber	OC499888		0		Operating	g Range			
ID Numl	ber					Condition	of UUC	Good		
Cal. At		Mechanical	Lab			Instrume	nt Location		LABORATORY	
	Varia	onmental Cor	ndition			11/	Calib	oration Me	thod Used	
									ISO 8655-6:2002	
Tempera	ture (°C)	23.2	Humidity	(%RH)	52	National	/ International Standard		150 6655-6:2002	
Atmosph	eric Pressure (mbar)	1006	Water Temp	perature (°C)	21.6	Cal Proce	dure No		SBS/CP/ML/08	
Standard	Used			-			1			
SI. No.	Description	ID.No./	SI. No.	Ce	rtificate N	lo.	Make/Model		Traceability	Valid till
1	Electronic Semi Micro Balance	15112	2918	TVCSI	PL22/12/21	115-01	A&D & GH-252	Nat	ional Standards	09-12-2023

				R	esult of Ca	libration i	n µl				
Sl. No.	Nominal Value		Obse	erved Readi	ngs		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
	100	99.86	99.87	99.88	99.87	99.88	99.87	-0.13	0.01	0.47	
1	100	99.87	99.88	99.87 99.88 99.88	-0.13	0.01	3.17				
	500	498.87	498.86	498.87	498.86	498.87	498.87	-1.13	0.01	0.47	
2	500	498.86	498.87	498.86	498.87	498.88	470.07	-1.15	0.01	0.47	
2	1000	999.76	999.77	999.76	999.76	999.77	998.97	-1.03	2.53	0.47	
3	1000	991.78	999.79	999.79	999.76	999.76	770.7/	-1.03	2.55	0.47	

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

Yeyan (Calibration Engineer) R.YAZINIYAN

OMEDIC

Authorised by:

(Quality Manager/Chief Executive) D.VETRI SELVI

## **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.

