

				CAL	.IBRA1	10	N CER	TIFICA	TE_			
CERTIFIC	CATE N	O: SB	S/CL/23/	13655			MI	EDICAL DEV	ICES	Page	No:1 of 1	
Issue Dat	ite					07-10	0-2023				-	
SRF No & Date					SRF	23/00790-00	01 & 06-10-	2023				
Receipt Date						06-10	0-2023					
Calibration Date						06-10	0-2023					
Calibration Due						05-10	0-2024					
Custome	er Name	& Add	ress								•	
GOVERN	NMENT F	PRIMA	RY HEA	LTH CENTR	E,							
THEMAN	NGALAM-	-61110	8,NAGA	PATTINAM D	DISTRICT.							
					Details of D	evice	Under Calibra	tion (DUC)				
Description	on	:	SEMI A	UTO ANALYZ	ŒR	Make & Model : ROBONI			ROBONIK & PRIETES	ST TOUC	Н	
Range			MULTI			Sr. No : ATCD4			ATCD4261220RBK	ATCD4261220RBK		
Resolution	n	:	MULTI			Identification No :			NA			
DUC Cond	dition	:	SATISE	FACTORY		Locat	ion	1	LABORATATORY			
				Environ	mental Cond	litions	& Calibration	Procedure D	Details			
Environme	ental Deta	ails		Temperature:	25.6 ° C		Relative Hum	idity	52% RH			
Calibration	n Procedu	ure No		SBS/CP/MD/2	20		Calibration do	ne at	ONSITE			
					Refer	ence	Standards De	tails				
S.No Des	scription				Make/ SI No	:		Certificate N	0		Validity	
1 Elec	1 Electrical Safety Analyser Rigel Medical & 44L-1					1059	M-230809-16	-4		10-08-2024		

### **ELECTRICAL SAFETY**

RESULTS	3		
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	88	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	175	7.5
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)

### 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.

<500µAfor B,BF,CF

- 5. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
- Equipment used for Calibration were calibrated & traceable to National & International Standards.
   Calibrated By

Chennai

(Calibration Engineer) P.PRASANNA

Technical Manager C.SHANMUGARAJ

Chief Executive

7.2

**Authorised Signatory** 





				CAL	IBRAT	101	CER	TIFIC	A	TE_		
CER	TIFICATE N	D: SB	S/CL/23/	13656			N	IEDICAL	DE	VICES	Page No	:1 of 1
Issue	e Date					07-1	0-2023					
SRF No & Date					SRF	23/00790-00	002 & 06	-10	)-2023			
					06-1	0-2023						
Calibration Date						06-1	0-2023					
	ration Due					05-1	0-2024					
	omer Name											
GOV	ERNMENT F	PRIMA	RY HEA	LTH CENTR	E,							
THE	MANGALAM-	-61110	8,NAGA	PATTINAM [	DISTRICT.							
					Details of De	vice L	nder Calibra	tion (DUC	;)			
Desci	ription	:		RICAL SAFET DSCOPE)	Υ	Make	& Model	:		OLYMPUS & CH20I		
Rang	е	:	MULTI			Sr. No		:	: I11/202			
Reso	lution	1	MULTI			Identi	fication No	:		NA		
DUC	Condition	1	SATISF	ACTORY		Locat	ion	:		LABORATORY		
				Environ	nental Condi	tions	& Calibration	Procedu	re [	Details		
Envir	onmental Deta	ails		Temperature:	25.6 ° C		Relative Hur	nidity		52% RH		
Calibr	ration Procedu	ire No		SBS/CP/MD/2	29		Calibration d	one at		ONSITE		
					Refere	ence S	tandards De	tails				
S.No	Description				Make/ SI No	:		Certifica	te I	No	Val	lidity
1	Electrical Sat	ety An	alyser		Rigel Medica	1 & 441	-1059	M-23080	9-1	6-4		-08-202

		ELECTRICAL SAFETY	
RESULTS	2		
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	90	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	201	7.3
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500µAfor B,BF,CF	215	7.3

### 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

  Authorised Signatory

(Calibration Engineer)
P.PRASANNA





Chief Executive

# **SUNSHINE BIOMEDICAL SOLUTIONS**



			C	ALIBR	ATION (	CERT	IFICATE				
Certifica	te No: SBS/CL/23/1365	7								Page. No: 1 of 1	
Custome	r Name & Address										
						SRF No.			SRF/23/007	90-0003	
GOVERN	MENT PRIMARY HE.	ALTH CENT	RE,			SRF Date	2	06-10-2023			
THEMANGALAM-611108,NAGAPATTINAM 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				
Details o	f Unit Under Calibrati	ion							•		
Descripti	on	MICRO PII	RO PIPETTE				Make			(	
Range		100-1000µl				Model			NA		
Resolutio	on	1µl				Material			PVC		
erial Nu	ımber	NA				Operatin	g Range		100-1000μ1		
D Numb	per	NA				Conditio	n of UUC		Good	Good	
Cal. At		Mechanical	l Lab		Instrument Location			LABORATORY			
	Env	rironmental	Condition				Calibrati	on Metho	d Used		
Tempera	ture (°C)	23.9	Humidity	(%RH)	55	National	/ International Standar	d	ISO 8655-6:2002		
Atmospheric Pressure (mbar) 1006 Water Temperature (°C)		perature (°C)	21.6 Cal Proce		al Procedure No			/08			
Standard	Used					1					
SI. No.	Description	ID.No.	SI. No.		Certificate No.		Make/Model	Tra	ceability	Valid till	
Electrical March								· man till			

09-12-2023

National Standards

				Re	sult of Calibr	ation in µl				
Sl. No.	Nominal Value		Ol	oserved Read	lings		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.86	9.87	9.85	9.86	9.87	9.86	-0.14		
_		9.86	9.87	9.85	9.84	9.83			0.01	0.47
2	50	49.85	49.86	49.87	49.85	49.85			7927 3300	0.47
-	30	49.82	49.83	49.82	49.82	49.81	49.84	-0.16	0.02	
3	100	99.90 99.91 99.92 99.93 99.90	175500110 1870-1							
5	100	99.92	99.93	99.92	99.91	99.92	99.92	-0.08	0.01	0.47

TVCSPL22/12/2115-01

A&D & GH-252

### Remarks

1

- 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.
- $3. The\ recall ibration\ interval\ should\ be\ determined\ on\ the\ user\ requirement.$

15112918

- 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,

Electronic Weighing

Balance

(Calibration Engineer) M.ADHIBAN

Chennai 600 032

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.



			C	ALIBI	RATION CE	RTIF	ICATE				
Certificat	te No: SBS/CL/23/13658	3								Page. No: 1 of 1	
Custome	r Name & Address										
						SRF No.			SRF/23/00790	0-0004	
GOVERN	IMENT PRIMARY HEA	ALTH CENTR	RE,			SRF Date			06-10-2023		
THEMANGALAM-611108,NAGAPATTINAM DISTRICT.						Date of R	eceipt		05-10-2023		
						Date of C	Calibration		06-10-2023		
							for Calibration		05-10-2024		
							e		07-10-2023		
Details of	f Unit Under Calibratio	on									
Description MICRO PIPETTE					Make			NA			
Range		10-50μl				Model			NA		
Resolutio	on	1μl				Material			PVC		
Serial Nu	ımber	NA				Operating	g Range		10-50μl		
ID Numb	er	NA				Condition	n of UUC		Good		
Cal. At		Mechanical l	Lab			Instrument Location			LABORATORY		
	E	Environmenta	al Conditio	n			Calibra	tion Meth	od Used		
Temperat	ture (°C)	23.7 I	Humidity (	%RH)	54	4 National / International Standard		ard	ISO 8655-6:2002		
Atmosph	heric Pressure (mbar) 1006 Water Temperature (°C) 21.6 Cal Procedure No S		SBS/CP/ML/08								
Standard	Used	•				1					
SI. No.	Description	ID.No./	SI. No.		Certificate No.	Make/Model Ti		Tra	ceability	Valid till	
1	Electronic Weighing	151129	918	Т	VCSPL22/12/2115-01				al Standards	09-12-2023	

ZF	actor:	1.003	19

09-12-2023

National Standards

	Result of Calibration in μl											
Sl. No.	Nominal Value			Observed Rea	ndings		Mean Value	Systemati c Error	Random Error	Measurement Uncertainty (±)		
1	9.91 9.93 9.94 9.95	9.91	9.93	9.92	9.94	9.96	0.04	201				
1		9.95	9.93	9.95	9.95	9.94	-0.06	0.02	0.47			
2	30	29.96	29.97	29.98	29.99	29.95				0.47		
	30	29.90	29.91	29.93	29.94	29.95	29.95	-0.05	0.03			
3	50	49.85	49.84	49.83	49.85	49.86	49.86	0.11		0.47		
3	50	49.86	49.87	49.88	49.89	49.90		-0.14	0.02			

A&D & GH-252

## 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.

Calibrated By,

M.ADHIBAN

Balance

Chennai 600 032 (Calibration Engineer)

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.