

				CAL	IBRAT	<u> 101</u>	I CER	TIFI(	CA	<u>TE</u>		
CERT	IFICATE N	O: SB	S/CL/23/	14152		1	N	IEDICA	L DE	VICES	Page	No:1 of 1
Issue	Date			-		12-10-2023						
SRF	No & Date					SRF/	23/00859-00	001 & 1	1-10-	2023		
Recei	pt Date					11-10	)-2023					
Calib	ration Date					11-10	)-2023					
Calib	ration Due					10-10	)-2024					
Custo	omer Name	& Add	<u>iress</u>	•								
GOV	ERNMENT	PRIMA	RY HEA	LTH CENTRE	<u>,                                      </u>						_	
UNIC	HETTY-635	107,K	RISHNA	SIRI DISTRIC	T.							
			-	I	Details of De	vice U	nder Calibra	tion (D	UC)			
Descr	•	:		UTO ANALYZ				:	ROBONIK & PRIETI AT0700413RBK	EST TOUCH	4	
Range		•	MULTI			Sr. No	-		;	***************************************		
Resol		:	MULTI				fication No		:	NA LABORATORY		
DUC (	Condition	:	SATISI	ACTORY		Locat			:	LABORATORY		
		-:,			nental Condi	tions			dure :			
	nmental Det			Temperature:			Relative Hur	<u> </u>		52% RH		
Calibr	ation Proced	ure No		SBS/CP/MD/2			Calibration d			ONSITE		
							tandards De					
S.No	Description	ı			Make/ SI No:		Certificate No				Validity	
1	Electrical Sa	ifety Ar	alyser		Rigel Medical & 44L-1059		M-230809-16-4				10-08-2024	

### **ELECTRICAL SAFETY**

RESULTS			
i.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
ĺ	>20MΩ	89	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	151	7.7
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	225	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.
- Equipment used for Calibration were calibrated & traceable to National & International Standards.
   Calibrated By

  Authorised Signatory

(Calibration Engineer) M.DINESH





Chief Executive



				CAL	IBRAT	TON	I CERT	ΓIFI	CA	<u>TE</u>	
CERT	IFICATE N	O: SBS	/CL/23/	14153		1	N	EDIC/	L DE	VICES	Page No:1 of 1
Issue	Date					12-10-2023					
SRF I	No & Date					SRF/	23/00859-00	02 & 1	1-10-	2023	
Recei	pt Date					11-10	)-2023				
Calibr	ation Date					11-10	-2023				
Calibr	ration Due					10-10	)-2024				
Custo	omer Name	& Add	ress								
GOV	ERNMENT F	PRIMA	RY HEA	LTH CENTRE	=,					-	
UNIC	HETTY-635	107,KR	RISHNAC	SIRI DISTRIC	CT.						
		•			Details of De	evice U	nder Calibra	tion (D	UC)		
Descr	iption	;	ELECT COUN	RICAL SAFET	TY (CELL	Make & Model			:	SYSMEX & XP-100	
Range	)	:	MULTI			Sr. No	)		:	86037	
Resol	ution	:	MULTI			Identi	fication No		:	NA	
DUC (	Condition	:	SATISE	FACTORY		Locat	ion		:	LABORATORY	
				Environ	mental Cond	litions	& Calibration	Proce	dure	Details	
Enviro	nmental Det	ails		Temperature:	25.6 ° C		Relative Hur	nidity		52% RH	
Calibr	ation Proced	ure No		SBS/CP/MD/2	29	Calibration done at ONSITE			ONSITE		
				<u> </u>	Refer	ence S	tandards De	tails			
\$.No	Description				Make/ SI No	D:		Certi	ficate	No	Validity
1	Electrical Sa	fety Ana	alyser		Rigel Medic	al & 44I	<sub></sub> 1059	M-23	0809-	16-4	10-08-202

### **ELECTRICAL SAFETY**

		_	
R	FSI	Ш	TS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	97	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	189	7.4
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	225	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

  Authorised Signatory

(Calibration Engineer)
M.DINESH





Chief Executive



			<u></u>	CAL	IBRAT	ION	I CERT	IFIC	A7	<u>E</u>		
CERT	IFICATE N	O: SBS	S/CL/23/	14154		<del></del>	М	DICAL	DEV	/ICES	Page No:1 of 1	
Issue	Date					12-10-2023						
SRF I	No & Date					SRF/	23/00859-000	03 & 11-	10-2	023		
Recei	ipt Date					11-10	)-2023					
Calib	ration Date					11-10	)-2023					
Calibr	ration Due					10-10	)-2024					
Custo	omer Name	& Add	<u>lress</u>									
GOV	RNMENT I	PRIMA	RY HEA	LTH CENTRE	,							
UNIC	HETTY-635	107,KF	RISHNA	SIRI DISTRIC	T.							
					Details of De	vice U	nder Calibrati	ion (DUC	;)			
Descr	iption	:		RICAL SAFET DSCOPE)	Υ	Make & Model		:		LABOMED & VISION 20	00	
Range	•	:	MULTI			Sr. N	<b>o</b>	:		160287552		
Resol	ution	:	MULTI			Identi	fication No	:		NA		
DUC (	Condition	:	SATIŞI	FACTORY		Locat	ion	:		BLOOD BANK		
				Environr	nental Condi	tions	& Calibration	Procedu	re D	etails		
Enviro	nmental Det	ails	-	Temperature:	25.6 ° C		Relative Hum	idity		52% RH		
Calibr	ation Proced	ure No		SBS/CP/MD/2	<u> </u>	Calibration done at ONSITE			ONSITE			
					Refere	nce S	tandards Deta	ails		•		
S.No	Description	)			Make/ SI No:	:		Certifica	ate N	lo	Validity	
1	Electrical Sa	ifety An	alyser		Rigel Medical & 44L-1059		M-230809-16-4			10-08-202		

-^+				FETY	
	RIL	AL	3 M	FEIT	

RESULTS	<u> </u>		
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in M $\Omega$	Uncertainty in % (±)
	>20MΩ	89	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	177	7.5
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500µAfor B,BF,CF	241	7.2
l I	**************************************		· -

### 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)
M.DINESH





Chief Executive



			<u>C</u>	ALIBR	ATION C	ERTI	FICATE					
Certifica	te No: SBS/CL/23/14155								, =	Page, No: 1 of 1		
Custome	r Name & Address									<del></del>		
•••						SRF No.			SRF/23/0085	9-0004		
GOVERN	IMENT PRIMARY HEA	LTH CENT	RE,			SRF Date		•	11-10-2023	•		
UNICHE	TTY-635107,KRISHNAG	GIRI DISTR	ICT.			Date of R	eceipt		10-10-2023			
						Date of C	Calibration		11-10-2023			
						Due Date	for Calibration		10-10-2024			
						Issue Dat	te		12-10-2023			
Details o	f Unit Under Calibratio	on				•		-				
Descripti	ion	MICRO PI	PETTE	•		Make	-	THERMO SCIENTIFIC				
Range	· · · -	100-1000μ				Model			FINNPIPETTE F3			
Resolutio	on	1µl				Material			PVC			
Serial N	ımber	NA				Operating	g Range		100-1000µl			
D Numl	per	NA			•	Condition	n of UUC		Good			
Cal. At		Mechanica	l Lab	• • • • • • • • • • • • • • • • • • • •		Instrume	nt Location		LABORATO	RY		
	Env	ironmental	Condition				Calibrati	on Metho	d Used			
Tempera	ture (°C)	23.9	Humidity	(%RH)	55	National	/ International Standar	d	ISO 8655-6:2	002		
Atmosph	eric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	edure No		SBS/CP/ML/08			
Standard	l Used	1	t						1			
SI. No.	Description	ID.No.	/ SI. No.		Certificate No.	*	Make/Model	Trac	eability	Valid till		
1	Electronic Weighing Balance	1511	2918	TVC	SPL22/12/2115	-01	A&D & GH-252	Nationa	al Standards	09-12-2023		

Z	Factor:	1.0031	9

				Re	sult of Calibr	ation in µl				
Sl. No.	Nominal Value		Ot	served Read	lings	Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	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	77.04	-0.10	0.02	0.47
2	500	499.88	499.87	499.86	499.85	499.84	499.85	-0.15	0.02	0.47
2	300	499.85	499.87	499.85	499.84	499.83	499.03	-0.15	0.02	0.47
3	1000	999.95	999.97	999.95	999.94	999.93	200.04	-0.06	0.02	0.47
	1000	999.92	999.91	999.93	999.94	999.95	999.94	-0.06	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 Deionizar Calibration Liquid Used: Distilled or Deionizar Calibration Cal

600 032

Calibrated By,

Madhinan (Calibration Engineer) M.ADHIBAN Authorised by:

C SIVARAL AN

# **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.



		CA	ALIBRA	ATION C	ERTI	FICATE			•	
Certificate No: SBS/CL/23/1415	6	<del>-</del>							Page. No : 1 of 1	
Customer Name & Address										
					SRF No.			SRF/23/0085	9-0005	
GOVERNMENT PRIMARY HE	ALTH CENT	RE,			SRF Date	· · · · · · · · · · · · · · · · · · ·		11-10-2023		
UNICHETTY-635107,KRISHNA	GIRI DISTR	ICT.			Date of R	eceipt		10-10-2023		
					Date of C	alibration	•	11-10-2023		
					Due Date	for Calibration		10-10-2024		
					Issue Dat	e		12-10-2023	······	
Details of Unit Under Calibrat	on			·						
Description	MICRO PI	PETTE			Make			MICROLUX		
Range	5-50µl				Model			NA		
Resolution	1µl				Material			PVC		
Serial Number	NA				Operatin	g Range		10-50µI		
ID Number	NA				Condition	n of UUC		Good		
Cal. At	Mechanica	l Lab			Instrume	nt Location		LABORATO	RY	
Env	rironmental	Condition				Calibrati	on Metho	d Used		
Temperature (°C)	23.9	Humidity	(%RH)	55	National	/ International Standar	d	ISO 8655-6:2002		
Atmospheric Pressure (mbar)	1006	Water Temp	erature (°C)	21.6	Cal Proce	dure No		SBS/CP/ML/	08	
Standard Used	.•			•	•					
SI. No. Description	ID.No.	/ SI. No.		Certificate No.		Make/Model	Tra	ceability	Valid till	

7			

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	9.95	9.97	9.96	9,97	9.96	9.96	-0.04	0.01	0.47
1	10	9.96	9.97	9.98	9.95	9.96				0.47
2	30	29.85	29.86	29.87	29.88	29.85	20.04	-0.14	0.01	0.47
2	30	29.85	29.86	29.87	29.85	29.84	29.86			0.47
3	50	49.88	49.87	49.88	49.86	49.87	40.00	-0.14	0.02	0.47
	30	49.85	49.86	49.85	49.83	49.82	49.86			0.47

TVCSPL22/12/2115-01

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.

15112918

- 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 (1997) Grade3 as specified in ISO 3696.

Calibrated By,

Electronic Weighing

Balance

(Calibration Engineer)
M.ADHIBAN

Authorised by:

Quality Manager/Cruef 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>C/</u>	4LIBR	ATION (	CERTI	IFICATE				
Certifica	te No: SBS/CL/23/14157								_	Page. No: 1 of 1	
Custome	r Name & Address										
				_		SRF No.			SRF/23/0085	9-0006	
·						SRF Date	<u> </u>	11-10-2023			
						Date of R	leceipt		10-10-2023		
						Date of C	alibration		11-10-2023		
						Due Date	for Calibration		10-10-2024	-	
						Issue Dat	te		12-10-2023		
Details o	f Unit Under Calibratio	on				•			·		
Descript	Pescription MICRO PIPETTE					Make		MICROLUX			
lange 100-1000μl				Model		NA					
Resolutio	esolution 1µl					Material		PVC			
erial N	umber	NA	_	-		Operating	g Range	100-1000µl			
D Numl	ber	NA	_			Condition	n of UUC		Good		
Cal. At Mechanical Lab Instrument Locat				nt Location	Location LABORATORY						
	_					<del></del>			<u> </u>		
	Env	ironmental	Condition		1		Calibrati	on Metho	d Used		
Tempera	ture (°C)	23.9	Humidity	(%RH)	<b>5</b> 5	National / International Standard			ISO 8655-6:2002		
Atmosph	neric Pressure (mbar)	1006	Water Temp	erature (°C)	e (°C) 21.6 Cal Procedure No SBS/C			SBS/CP/ML/08			
Standard	Used	•	<u> </u>	•							
SI. No.	Description	ID.No.	/ SI. No.		Certificate No.	e No. Make/Model Traceability			ceability	Valid till	
1	Electronic Weighing Balance	1511	2918	TVCSPL22/12/2115-01 A&D & GH-252 National Standard				al Standards	09-12-202		

Z	Factor:	1.00319

	Result of Calibration in µl										
51. No.	Nominal Value		OI	oserved Read	lings		Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	1 100 99.97 99.	99.98	99.97	99.96	99.95	00.04	0.04	0.00	0.45		
1	100	99.92	99.91	99.92	99.93	99.91	99,94	-0.06	0.03	0.47	
2	500	499.88	499.87	499.86	499.85	499.84	400.05	-0.15	0.02	0.45	
2	500	499.85	499.87	499.85	499.84	499.83	499.85			0.47	
3	1000	999.77	999.75	999.76	999.75	999.74	999.75	-0.25	0.02	0.45	
,	1000	999.76	999.77	999.78	999.72	999.71				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.

600 032

7. Calibration Liquid Used: Distilled or Deior ing Grade3 as specified in ISO 3696. Chennai

Calibrated By,

(Calibration Engineer) M.ADHIBAN

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.